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Superfund Chemical Data Matrix

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U.S. Environmental Protection Agency
Washington, DC 20460

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SECTION 1
INTRODUCTION

The Superfund Chemical Data Matrix (SCDM) is a source for factor values and benchmark values applied when evaluating potential National Priorities List (NPL) sites using the Hazard Ranking System (HRS; 40 CFR Part 300, 55 *FR* 51583). The HRS assigns factor values for toxicity, gas migration potential, gas and ground water mobility, surface water persistence, and bioaccumulation potential based on the physical, chemical, and radiological properties of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) hazardous substances present at a site. Hazardous substances, as defined for HRS purposes, are CERCLA hazardous substances plus CERCLA pollutants and contaminants. The HRS also assigns extra weight to targets with exposure levels to hazardous substances that are at or above benchmarks. These benchmarks include both risk-based screening concentrations and concentrations specified in regulatory limits for the hazardous substances present at a site for a particular migration pathway.

SCDM contains HRS factor values and benchmarks for hazardous substances that are frequently found at sites evaluated using the HRS, as well as the physical, chemical, and radiological data used to calculate those values. The raw data in SCDM are taken directly from literature sources or other databases or are calculated. HRS rules are then applied to the raw data to determine a factor value or benchmark.

Section 2 of this document explains how data are selected for inclusion in SCDM. Section 3 describes how some types of data (i.e., volatilization half-lives, distribution coefficients, and screening concentrations) are internally calculated using data in SCDM and methodologies from published literature or regulatory guidance documents. Section 4 describes how SCDM data, HRS factor values, and benchmark values are presented. The factor values and benchmark values are listed, substance by substance, in Appendix A. Appendix B-1 contains the HRS factor values and benchmark tables (organized by pathway) for nonradiological hazardous substances. Appendix B-2 contains similar tables for radionuclides, and Appendix C contains a cross-reference index of substance name synonyms.

1.1 DEFINITIONS

In addition to the definitions found in Section 1.1 of the HRS (55 *FR* 51585-51587), the following definitions are used in this document:

- **Cancer Risk Screening Concentrations**: Substance-specific intake concentrations that are based on a cancer slope factor and on estimates of a daily exposure level of a

substance. They are used in the HRS as benchmarks in evaluating target populations actually exposed to carcinogenic substances (see also the definitions of "Slope Factor" and "Screening Concentration" in Section 1.1 of the HRS).

- **Reference Dose Screening Concentrations**: Substance-specific intake concentrations that are based on a noncancer reference dose (RfD) and estimates of a daily exposure level of a substance. They are used in the HRS as benchmarks in evaluating target populations actually exposed to noncarcinogenic substances (see also the definitions of "Reference Dose" and "Screening Concentration" in Section 1.1 of the HRS).

SECTION 2

SUPERFUND CHEMICAL DATA MATRIX DATA SELECTION METHODOLOGY

This section describes how the data available in specified literature sources and regulatory guidance documents are selected for inclusion in SCDM. Section 2.1 describes how to resolve ambiguities that arise in determining whether particular values apply to particular hazardous substances. Sections 2.2 through 2.9 specify the references used to obtain the data for SCDM and the methodologies used to extract the data. The criteria described in these sections were developed based on the type and quality of data available in the current SCDM references; they are not intended to apply to all data in general. As different compilations of data become available, different criteria may be considered.

2.1 HAZARDOUS SUBSTANCE IDENTITIES AND SCDM PROTOCOLS

Compiling data for SCDM requires determining which data reasonably apply to a hazardous substance. Data in the references cited in Sections 2.2 through 2.9 are sometimes available for classes and mixtures of hazardous substances, but not for the individual substances that make up that mixture. Thus, there may be questions concerning whether the hazardous substance identities in the references match the hazardous substance identities in SCDM. This section describes how ambiguities in assigning particular values to members of classes of hazardous substances in SCDM have been resolved.

SCDM contains generic values for the following classes of compounds (for chromium and chlordane, these generic values are used only when the specific oxidation state or isomer concentration is not adequately known):

- chromium (III and VI oxidation states)
- arsenic (III and V oxidation states)
- mercury (elemental and inorganic compounds)
- polychlorinated biphenyls (PCBs) (various congeners and Arochlors)
- endosulfans (I and II)
- chlordane (α and γ).

In general, if any member of these classes is present at a hazardous substance site, it is assumed that the most toxic, most persistent, or most bioaccumulative member of the class is present. In other words, from among the data given in the specified references for members of these classes,

SCDM contains those data resulting in the greatest HRS factor values (e.g., lowest LD_{50}, longest half-life, greatest bioaccumulation factor).

For chromium, if the oxidation state is known, the generic values are not used. For arsenic, SCDM contains data for the more mobile and toxic arsenic III species. For mercury, SCDM contains data for elemental and inorganic species. The oral RfD is for mercuric chloride and the inhalation RfD is for elemental mercury vapor. Vapor pressure and Henry's law constant are for the elemental form, while the distribution coefficient is for the (+2) species.

PCBs are represented solely as a class of compounds in SCDM, with a single value used regardless of the mixture of compounds identified at a site. For PCBs, chemical properties in SCDM are based on Arochlor 1254, which results in the most conservative bioaccumulation/ human food chain-based factor values for this group of compounds. Although the endosulfans I and II can be distinguished analytically, no data for either isomer by itself are available in the designated sources. All data in SCDM represent a mixture of endosulfan isomers. SCDM contains some data for the α and γ isomers of chlordane, but, for the most part, values represent a mixture of the isomers.

For the following classes of compounds, SCDM contains values for individual substances:

- dichlorobenzenes
- dinitrotoluenes
- hexachlorocyclohexanes
- xylenes.

If no data can be found in the specified references for an individual substance in the class but data are available for the generic class, SCDM assigns the generic value to that substance. These classes are all relatively small sets of isomers, which are likely to occur as mixtures. Furthermore, these classes are well defined in the sense that the generic class (e.g., xylenes) almost always refers to a mixture of all members of the class (*o*-, *m*-, and *p*-xylene). The expected similarity in chemical behavior for members of each class, as well as the likelihood that they will occur as mixtures, makes using data from mixtures reasonable.

SCDM also defines another class of compounds containing the following polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans:

- 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD)
- 1,2,3,7,8-pentachlorodibenzo-*p*-dioxin
- 1,2,3,4,7,8-hexachlorodibenzo-*p*-dioxin
- 1,2,3,6,7,8-hexachlorodibenzo-*p*-dioxin
- 1,2,3,7,8,9-hexachlorodibenzo-*p*-dioxin

- 1,2,3,4,6,7,8-heptachlorodibenzo-*p*-dioxin
- 2,3,7,8-tetrachlorodibenzofuran
- 1,2,3,7,8-pentachlorodibenzofuran
- 2,3,4,7,8-pentachlorodibenzofuran
- 1,2,3,4,7,8-hexachlorodibenzofuran
- 1,2,3,6,7,8-hexachlorodibenzofuran
- 1,2,3,7,8,9-hexachlorodibenzofuran
- 2,3,4,6,7,8-hexachlorodibenzofuran
- 1,2,3,4,6,7,8-heptachlorodibenzofuran
- 1,2,3,4,6,7,9-heptachlorodibenzofuran.

SCDM contains the cancer slope factor for 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) from the Health Effects Assessment Summary Tables (HEAST) (EPA, 1995d). For all other dioxins and dibenzofurans, the cancer slope for TCDD is multiplied by the *toxicity equivalence factor* (TEF) for each substance to give an estimated slope factor that is entered into SCDM for that substance. TEF values are obtained from Section 3, Table 2 of EPA's *Interim Procedures for Estimating Risks Associated with Mixtures of Chlorinated Dibenzo-*p*-Dioxins and Dibenzofurans (CDDs and CDFs) and 1989 Update*, (1989a, p. 12). All members of this class are assigned the weight of evidence for TCDD (B2).

For cadmium, the Integrated Risk Information System (IRIS) contains two RfD values: one for drinking water and one for dietary exposure. Since SCDM calculates RfD-based screening concentrations for both drinking water and dietary exposure, and only one RfD per substance can be entered into SCDM, SCDM uses the more conservative drinking water RfD for cadmium.

The HRS specifies that a human toxicity factor of 10,000 be assigned to asbestos and lead compounds. SCDM does this automatically within the data manager's computer code.

2.2 TOXICITY INFORMATION

2.2.1 Reference Dose (RfD)—Oral, Inhalation

SCDM uses data from the following references (listed in order of preference) for oral and inhalation RfD:

1. U.S. Environmental Protection Agency (EPA). 1996a. *Integrated Risk Information System (IRIS)*. Office of Research and Development, Cincinnati, OH.

2. U.S. Environmental Protection Agency (EPA). 1995d. *Health Effects Assessment Summary Tables (HEAST)*. EPA 5401R-95-036. Office of Research and Development, Washington, DC. NTIS PB95-921199.

SCDM prefers IRIS data over HEAST data. Inhalation data in IRIS are given as reference concentrations (RfCs) equivalent to dose rather than RfDs. RfCs are converted to RfDs by the following equation:

$$RfD_{inhal} = \frac{RfC \times IR \times AR}{BW \times 100} \quad (1)$$

where:

RfC = Reference concentration in air (mg/m^3)
IR = Inhalation rate (20 m^3/day)
AR = Absorption rate (%)
BW = Adult body weight (70 kg).

Using the default exposure assumptions listed above, Equation (1) may be simplified as:

$$RfD_{inhal}\ mg/kg\text{-}day = RfC_{inhal} \times AR \times 2.857 \times 10^{-3}\ . \quad (2)$$

Equation (2) is used to convert RfCs to RfDs for use in SCDM. If IRIS or HEAST does not provide an absorption rate, it is assumed to be 100 percent; this is consistent with the convention described in HEAST.

SCDM also contains interim or provisional reference dose values for certain hazardous substances for use in the Superfund site assessment program for compounds that do not have values in IRIS or HEAST. These values are identified by their datafile source, LIVECHEM, with data sources described in the LIVECHEM datafile comment field (not displayed on screen). Sources of human toxicity data in LIVECHEM are also given in:

Research Triangle Institute (RTI). 1996. *Chemical Properties for SCDM Development*. Prepared for U.S. EPA Office of Emergency and Remedial Response. Washington, DC.

2.2.2 LD_{50}—Oral, Dermal

SCDM uses data from the following references (listed in order of preference) for oral and dermal LD_{50}:

1. C-E Environmental, Inc. 1990. *The Identification of Health Effects Data for Chemicals Contained in the Clean Air Act Amendments: Final Report to Dr. John Vanderburg.* U.S. Environmental Protection Agency, Research Triangle Park, NC.

2. American Conference of Governmental Industrial Hygienists (ACGIH). 1991. *Documentation of the Threshold Limit Value and Biological Exposure Indices.* ACGIH, Cincinnati, OH.

3. National Institute for Occupational Safety and Health (NIOSH). 1995. *Registry of Toxic Effects of Chemical Substances (RTECS).* NIOSH, Cincinnati, OH.

SCDM contains the lowest value for any mammalian species by the specified route of exposure (i.e., oral or dermal) in controlled dose studies in laboratory animals. Human lethality data (i.e., data from suicide and worker poisonings) are not used due to the associated inaccuracy of the dosage estimates. Data from former Eastern Bloc countries (e.g., former Soviet Union) are not used due to the typically poor data quality. Only data for exposure durations <24 hours are used. If an LD_{50} value is not given, SCDM uses an LD_{LO} value: (1) if it is for the same exposure route, (2) if it has an exposure <24 hours, and (3) if it is reasonable relative to the other values (e.g., relative to chronic values) given for that substance and exposure route.

2.2.3 LC_{50}—Inhalation

SCDM uses data from the following references (listed in order of preference) for inhalation LC_{50}:

1. American Conference of Governmental Industrial Hygienists (ACGIH). 1991. *Documentation of the Threshold Limit Value and Biological Exposure Indices.* ACGIH, Cincinnati, OH.

2. National Institute for Occupational Safety and Health (NIOSH). 1995. *Registry of Toxic Effects of Chemical Substances (RTECS).* NIOSH, Cincinnati, OH.

SCDM contains the lowest value for any mammalian species by inhalation in controlled dose studies in laboratory animals. Human lethality data (i.e., data from suicide and worker poisonings) are not used due to the associated inaccuracy of the dosage estimates. Data from former Eastern Bloc countries (e.g., former Soviet Union) are not used due to the typically poor data quality. Only data for exposure durations <24 hours are used. If an LC_{50} value is not given, SCDM uses an LC_{LO} value: (1) if it is for the same exposure route, (2) if it has an exposure <24 hours, and (3) if it is reasonable relative to the other values (e.g., relative to chronic values) given for that substance and exposure route.

2.3 CARCINOGENICITY INFORMATION

2.3.1 Cancer Slope Factor (SF) and Weight of Evidence—Oral, Inhalation

SCDM uses data from the following references (listed in order of preference) for oral and inhalation cancer slope factors and the associated weights of evidence:

1. U.S. Environmental Protection Agency (EPA). 1996a. *Integrated Risk Information System (IRIS).* Office of Research and Development, Cincinnati, OH.

2. U.S. Environmental Protection Agency (EPA). 1995d. *Health Effects Assessment Summary Tables (HEAST).* EPA-540/R-95-036. Office of Research and Development, Washington, DC. NTIS PB95-921199.

SCDM prefers IRIS values for nonradioactive hazardous substances over HEAST values. For radioactive hazardous substances, SCDM contains values from HEAST.

Data in IRIS for inhalation are given as unit risk factors (URFs), which are related to cancer slope factors by the following equation (used for nonradionuclides only):

$$SF_{inhal} = \frac{URF \times BW \times CF \times 100}{IR \times AR} \tag{3}$$

where:

SF = Cancer slope factor $(mg/kg\text{-}day)^{-1}$
URF = Unit risk factor $(\mu g/m^3)^{-1}$
BW = Adult body weight (70 kg)
CF = Conversion factor (1,000 µg/mg)
IR = Inhalation rate (20 m^3/day)
AR = Absorption rate (%).

Using the assumptions listed above reduces Equation (3) to the following equation:

$$SF_{inhal}\ (mg/kg\text{-}day)^{-1} = \frac{URF \times 3.50 \times 10^5}{AR}\ . \tag{4}$$

Equation (4) is used to convert unit risk to cancer slope factors for use in SCDM. If IRIS or HEAST does not provide an absorption rate, it is assumed to be 100 percent; this is consistent with the convention described in HEAST.

SCDM uses the weight of evidence from the same reference that provides the corresponding slope factor. Typically, IRIS reports a single weight of evidence; this value is recorded separately as both the oral weight of evidence and the inhalation weight of evidence. In HEAST, there are usually two values listed, one for oral and one for inhalation. Usually these values are identical; SCDM records each value separately.

SCDM also contains interim or provisional cancer slope factors for certain hazardous substances for use in the Superfund site assessment program for compounds that do not have values in IRIS or HEAST. These values are identified by their datafile source, LIVECHEM, with data sources given in the LIVECHEM datafile comment field (not displayed on screen). Sources of human toxicity data in LIVECHEM are also given in:

Research Triangle Institute (RTI). 1996. *Chemical Properties for SCDM Development.* Prepared for U.S. EPA Office of Emergency and Remedial Response, Washington, DC.

2.3.2 ED_{10} and Weight of Evidence—Oral, Inhalation

SCDM uses data from the following references (listed in order of preference) for oral and inhalation ED_{10} and the associated weights of evidence:

1. U.S. Environmental Protection Agency (EPA). 1988. *Methodology for Evaluating Potential Carcinogenicity in Support of Reportable Quantity Adjustments Pursuant to CERCLA Section 102* (EPA_ED10). Office of Health and Environmental Assessment, Washington, DC (EPA/600/8-89/053).

2. U.S. Environmental Protection Agency (EPA). 1986. *Superfund Public Health Evaluation Manual (SPHEM).* Office of Emergency and Remedial Response, Washington, DC (EPA/540/1-86/060).

A single potency factor ($1/ED_{10}$) is reported for oral and inhalation exposure routes in EPA (1988). The reported value is the reciprocal of ED_{10}. Therefore, the oral and inhalation ED_{10} values contained in SCDM are calculated by taking the reciprocal of the potency factor (i.e., ED_{10} = 1/potency factor).

2.4 MOBILITY INFORMATION

2.4.1 Vapor Pressure

SCDM generally uses data from the following references (listed in order of preference) for vapor pressure:

1. U.S. Environmental Protection Agency (EPA). 1995c. FATE Database. Office of Research and Development, Athens, GA.

2. Syracuse Research Corporation (SRC). 1995. CHEMFATE Database. SRC, Syracuse, NY.

3. CHEMCALC values, calculated according to procedures in Lyman et al. (1990), as described in Research Triangle Institute (RTI). 1996. *Chemical Properties for SCDM Development.* Prepared for U.S. EPA Office of Emergency and Remedial Response, Washington, DC.

4. GSC Corporation. 1990. CHEMEST Database. Developed for U.S. EPA Office of Pesticides and Toxic Substances, Washington, DC.

SCDM only uses measured values from the FATE database. If an estimated or calculated value is presented in FATE, that value is not used in SCDM. Within CHEMFATE, the recommended value is preferred. If more than one recommended value is available, SCDM uses the highest value. If a recommended value is not available, SCDM uses a value measured at 25 °C. If more than one value measured at 25 °C is available, SCDM uses the highest one. If values are not available for measurements at 25 °C, values determined within the range of 20 to 30 °C are used. If there is more than one value measured at the same temperature and none is recommended, SCDM uses the highest value. If no temperature is specified in CHEMFATE for all vapor pressure measurements for a substance, SCDM uses the highest value.

If vapor pressure values are not available in either FATE or CHEMFATE, the procedures described in Lyman et al. (1990) are used to calculate vapor pressure, which is entered in the CHEMCALC datafile. RTI (1996) describes the use of these procedures for specific hazardous substances found in SCDM. If these procedures are not applicable, a CHEMEST estimated value is used.

The above heirarchy is superseded by values in the LIVECHEM datafile when a value selected by the heirarchy is suspect or a measured value is not available in the SCDM data sources. For a particular chemical, suspect values are identified by comparison with other vapor pressure values in SCDM data sources or other sources of chemical property data. The

LIVECHEM datafile includes a comment field (not displayed onscreen by SCDM-DM) listing the source of each LIVECHEM value. RTI (1996) describes the selection of LIVECHEM values and documents their sources.

For nonmetallic substances, if vapor pressure is not available, a normal boiling point is obtained from the *Handbook of Chemistry and Physics* (Lide, 1994) and entered into BASEDATA. If a boiling point is not available from the handbook, a value from the Merck Index (Merck, 1989) is used. If the boiling point at 1 atmosphere (atm) is <25 °C, a default vapor pressure of 760 Torr is entered into LIVECHEM (i.e., the compound is assumed to be a gas at 25 °C).

If no vapor pressure is available for a substance and the normal boiling point is ≥25 °C, SCDM assumes that the substance is in a particulate rather than a gaseous form, and no default vapor pressure value is assigned. This assumption is made because the absence of a vapor pressure value often reflects an extremely low and difficult-to-measure (under standard conditions) value for nongaseous substances.

2.4.2 Henry's Law Constant

SCDM uses data from the following references (listed in order of preference) for Henry's law constant (HLC):

1. U.S. Environmental Protection Agency (EPA). 1995c. FATE Database. Office of Research and Development, Athens, GA.

2. Syracuse Research Corporation (SRC). 1995. CHEMFATE Database. SRC, Syracuse, NY.

3. CHEMCALC values, calculated according to procedures in Lyman et al. (1990) (no values available for June 1996 version).

4. GSC Corporation. 1990. CHEMEST Database. Developed for U.S. EPA Office of Pesticides and Toxic Substances, Washington, DC.

SCDM uses only measured values from the FATE database. If an estimated or calculated value is presented in FATE, that value is not used in SCDM. Within CHEMFATE, the recommended value is preferred. If more than one recommended value is available, SCDM uses the highest value. If a recommended value is not available, SCDM uses a value measured at 25 °C. If more than one value measured at 25 °C is available, SCDM uses the highest one. If values are not available for measurements at 25 °C, values determined within the range of 20 to 30 °C are used. If more than one value measured at the same temperature is available and none

is recommended, SCDM uses the highest value. If temperature is specified in CHEMFATE for all HLC measurements for a substance, SCDM uses the highest value.

If HLC values are not available in either FATE or CHEMFATE, the procedures described in Lyman et al. (1990) are used to calculate an HLC. If these procedures do not apply, a CHEMEST estimated value is used.

The above heirarchy is superseded by values in the LIVECHEM datafile when a value selected by the heirarchy is suspect or a measured value is not available in the SCDM data sources. For a particular chemical, suspect values are identified by comparison with other Henry's law values in SCDM data sources or other sources of chemical property data. The LIVECHEM datafile includes a comment field (not displayed on screen by SCDM-DM) listing the source of each LIVECHEM value. RTI (1996) describes the selection of LIVECHEM values and documents their sources.

2.4.3 Water Solubility—Nonmetallic Compounds

SCDM uses data from the following references (listed in order of preference) for water solubility for nonmetallic compounds:

1. U.S. Environmental Protection Agency (EPA). 1995c. FATE Database. Office of Research and Development, Athens, GA.

2. Syracuse Research Corporation (SRC). 1995. CHEMFATE Database. SRC, Syracuse, NY.

3. CHEMCALC values, calculated according to procedures in Lyman et al. (1990), as described in Research Triangle Institute (RTI). 1996. *Chemical Properties for SCDM Development.* Prepared for U.S. EPA Office of Emergency and Remedial Response, Washington, DC.

4. GSC Corporation. 1990. CHEMEST Database. Developed for U.S. EPA Office of Pesticides and Toxic Substances, Washington, DC.

SCDM uses only measured values from the FATE database. If an estimated or calculated value is presented in FATE, that value is not used in SCDM. Within CHEMFATE, the recommended value is preferred. If more than one recommended value is available, SCDM uses the highest value. If a recommended value is not available, SCDM uses a value measured at 25 °C. If more than one value measured at 25 °C is available, SCDM uses the highest one. If values are not available for measurements at 25 °C, values determined within the range of 20 to 30 °C are used. If more than one value measured at the same temperature is available and none

is recommended, SCDM uses the highest value. If no temperature is specified in CHEMFATE for all water solubility measurements for a substance, SCDM uses the highest value.

If water solubility values are not available in either FATE or CHEMFATE, the procedures described in Lyman et al. (1990) are used to calculate water solubility. RTI (1996) describes the use of these procedures for specific hazardous substances found in SCDM. If these procedures do not apply, a CHEMEST estimated value is used.

The above heirarchy is superseded by values in the LIVECHEM datafile when a value selected by the heirarchy is suspect or a measured value is not available in the SCDM data sources. For a particular chemical, suspect values are identified by comparison with other water solubility values in SCDM data sources or other sources of chemical property data. The LIVECHEM datafile includes a comment field (not displayed onscreen by SCDM-DM) listing the source of each LIVECHEM value. RTI (1996) describes the selection of LIVECHEM values and documents their sources.

2.4.4 Water Solubility—Metals and Metalloids

SCDM uses data from the following references (in order of preference) for water solubility of metals and metalloid compounds:

1. Weast, R.C. 1981. *Handbook of Chemistry and Physics*. 62nd ed. CRC Press, Cleveland, OH. pp. B-73–B-166.

2. Dean, J.A. (Ed.). 1985. *Lange's Handbook of Chemistry*, 13th ed. McGraw-Hill, New York. pp. 5-7–5-12.

SCDM contains geometric mean water solubility values that are defined in the HRS as the geometric mean of the highest and the lowest water solubility values available for any inorganic compound containing the metal or metalloid. Highest and lowest compound solubility values were taken directly from Weast (1981), except for the following low-solubility compounds:

- copper (II) sulfide
- lead (II) sulfide
- mercury (II) sulfide
- nickel (II) sulfide
- silver (I) sulfide
- thallium (III) hydroxide
- thorium (IV) hydroxide
- uranyl hydroxide
- zinc (II) sulfide.

Solubility values for these compounds were calculated using the standard expression for the solubility product (K_{sp}) for each compound and the K_{sp} value taken from Dean (1985).

2.4.5 Soil/Water Distribution Coefficient (K_d)

SCDM uses data from the following references (listed in order of preference) for soil/water distribution coefficients (K_d) values for metals:

1. U.S. Envrionmental Protection Agency (EPA). 1996b. *Soil Screening Guidance: Technical Background Document.* EPA/540/R95/128. Office of Emergency and Remedial Response, Washington, DC. NTIS PB96-963502.

2. Baes III, C.F., R.D. Sharp, A.L. Sjoreen, and R.W. Shor. 1984. *A Review and Analysis of Parameters for Assessing Transport of Environmentally Released Radionuclides through Agriculture.* Oak Ridge National Laboratory, Oak Ridge, TN. ORNL-5786.

For metals, SCDM uses K_d values contained in EPA (1996b) that were estimated for the Soil Screening Guidance using the MINTEQ aqueous speciation geochemical model or, when the required thermodynamic data are not available in the MINTEQ databases, using empirical pH-dependent relationships developed by EPA's Office of Research and Development Laboratory in Athens, Georgia. Values corresponding to a typical subsurface pH (6.8) are used in SCDM. The derivation of these metal K_d values is described in EPA (1996b).

For organic hazardous substances, SCDM uses K_d values calculated using the following relationship between K_d and K_{oc}:

$$K_d = K_{oc} \times f_{oc} \tag{5}$$

where:

K_{oc} = Soil organic carbon/water partition coefficient (mL/g)
f_{oc} = Fraction of organic carbon in soil (g carbon/g soil).

The f_{oc} is assumed to be 0.002 g/g, which is typical of subsurface soils. This f_{oc} and the K_{oc} values used in SCDM are consistent with those used for the Soil Screening Guidance. SCDM datafiles (SSG_KD and RTI_ION) contain K_d values calculated from Soil Screening Guidance K_{oc} values for volatile organic compounds, certain chlorinated pesticides, and ionizing organic compounds. K_{oc} values for organic hazardous substances that ionize under subsurface pH conditions (i.e., pH = 4.9 to 8.0) are derived by applying a theoretical relationship that accounts for both the neutral and the ionized fractions of the compound. Values corresponding to a typical subsurface pH (pH = 6.8) are used in SCDM. The methodology used to develop these K_{oc} values is described in *Soil Screening Guidance: Technical Background Document.* K_d values for other organic compounds are calculated directly from Log K_{ow} values in SCDM, as described in

Section 3.2. RTI (1996) provides additional detail on the selection of soil/water distribution coefficients for organic compounds in SCDM.

2.5 PERSISTENCE INFORMATION

2.5.1 Hydrolysis, Biodegradation, and Photolysis Half-Lives

SCDM uses data from the following references (listed in order of preference) for hydrolysis, biodegradation, and photolysis half-lives:

1. U.S. Environmental Protection Agency (EPA). 1995c. FATE Database. Office of Research and Development, Athens, GA.

2. Howard, P.H., W.F. Jarvis, W.M. Meylan, and E.M. Michalenko. 1991. *Handbook of Environmental Degradation Rates* (FATERATE). Lewis Publishers/CRC Press, Boca Raton, FL.

3. Syracuse Research Corporation (SRC). 1995. CHEMFATE Database. SRC, Syracuse, NY.

SCDM only uses measured values from the FATE Database. If estimated or calculated values are presented in FATE, those values are not used in SCDM. SCDM only uses values listed as "first-order" in Howard et al. (1991). If high and low values are given, the highest values are used. Within CHEMFATE, the recommended values are preferred. If more than one recommended value is available, the highest is selected. If a recommended value is not available, SCDM uses a value measured at 25 °C. If more than one value measured at 25 °C is available, the highest is selected. If values are not available for measurements at 25 °C, values determined within the range of 20 to 30 °C are used. If there is more than one value measured at the same temperature and none is recommended, SCDM uses the highest value. If no half-life value is provided in CHEMFATE, the half-life used in SCDM is calculated based on the percent change over time by assuming a first-order rate law.

2.5.2 Radioactive Half-Life

SCDM uses data from the following reference for radioactive half-life:

International Commission on Radiological Protection (ICRP). 1983. *Radionuclide Transformations: Energy and Intensity of Emissions.* ICRP Publication No. 38. Pergamon Press, New York.

If more than one value is given for a single decay mode, SCDM uses the highest value. If values are given for more than one decay mode, the half-life of the isotope is computed from the values for all decay modes according to the following formula:

$$t_{1/2} = 1/(1/t_1 + 1/t_2 \ldots + 1/t_n) \quad (6)$$

where:

$t_{1/2}$ = Half-life of the isotope
t_1 = Value given for the first decay mode
t_2 = Value given for the second decay mode
t_n = Value given for the n-th decay mode.

2.6 BIOACCUMULATION POTENTIAL INFORMATION

2.6.1 Bioconcentration Factor—Freshwater, Saltwater

SCDM uses data from the following references (listed in order of preference) for freshwater and saltwater bioconcentration factors (BCFs):

1. Versar, Inc. 1990. *Issue Paper: Bioaccumulation Potential Based on Ambient Water Quality Criteria Documents* (VER_BCF). Prepared for U.S. EPA Office of Emergency and Remedial Response, Washington, DC. Contract No. 68-W8-0098.

2. U.S. Environmental Protection Agency (EPA). 1995a. Aquatic Information Retrieval (AQUIRE) Database. Environmental Research Laboratory, Duluth, MN.

SCDM contains the highest measured value from the Versar (1990) document in preference to an estimated value from the same document. If no value is reported in Versar (1990), the highest value from AQUIRE is used. All values where no environment (i.e., saltwater or freshwater) is given but that list NaCl as a control are considered as freshwater values.

SCDM uses the highest value from the following aquatic organisms to establish human food chain threat BCF values (this list includes only aquatic human food chain organisms in the cited references and is not meant to be a complete list of aquatic human food chain organisms):

- American or Virginia oyster
- Asiatic clam
- Atlantic salmon
- Atlantic silverside
- black crappie
- black bullhead

- black mussel
- blue crab
- bluegill
- brook trout
- brown trout
- channel catfish
- clam
- common bay mussel
- common mirror colored carp
- common shrimp
- crayfish
- dungeness or edible crab
- giant gourami
- gulf toadfish
- kiyi
- lake trout (siscowet)
- lake whitefish
- mangrove snapper
- Manila littleneck clam
- mussel
- northern pike
- northern anchovy
- pilchard sardine
- pinfish
- pink salmon
- rainbow trout
- red swamp crayfish
- rock bass
- sauger
- shore crab
- spot
- striped bass
- striped mullet
- swan mussel
- tong sole
- topmouth gudgeon (golden shiner)
- white mullet
- white sand mussel

Nonhuman food chain aquatic organisms are not used for the food chain BCF. The highest value from *any* aquatic organism mentioned in each reference is used to establish environmental threat BCF values, using the same order of preference described above.

2.6.2 Octanol/Water Partition Coefficient (Log K_{ow})

For *n*-octanol/water partition coefficient (K_{ow}), SCDM uses Log K_{ow} (also referred to as Log P) data from the following references (listed in order of preference):

1. Research Triangle Institute (RTI). 1996. *Chemical Properties for SCDM Development.* Prepared for U.S. EPA Office of Emergency and Remedial Response, Washington, DC.

2. U.S. Environmental Protection Agency (EPA). 1995c. FATE Database. Office of Research and Development, Athens, GA.

3. Syracuse Research Corporation (SRC). 1995. CHEMFATE Database. SRC, Syracuse, NY.

4. GSC Corporation. 1990. CHEMEST Database. Developed for U.S. EPA Office of Pesticides and Toxic Substances, Washington, DC.

Most of the chemicals in SCDM are addressed in RTI (1996). Many of these values were selected by EPA's Office of Research and Development in Athens, Georgia (ORD-Athens), from an extensive list of measured values compiled by RTI and values calculated by ORD-Athens using the SPARC and CLOGP computer programs. Values not selected by ORD-Athens were selected by RTI from a compilation of measured values. Compilation and selection procedures are described in RTI (1996). SCDM only uses measured values from the FATE database. If estimated or calculated values are presented in FATE, those values are not used in SCDM. SCDM uses only recommended values from the CHEMFATE Database. CHEMEST estimated Log K_{ow} values are used if values are not available from the other data sources.

2.7 ECOTOXICITY PARAMETERS

2.7.1 Acute and Chronic Freshwater and Saltwater Criteria

SCDM uses data from the following reference for acute and chronic freshwater and saltwater criteria:

U.S. Environmental Protection Agency (EPA). 1995e. *Water Quality Criteria-Draft (the Silver Book)*. Office of Water, Washington, DC.

SCDM uses only values that are specifically stated as criteria. At this time, no Ambient Aquatic Life Advisory Concentrations (AALACs) have been specified.

2.7.2 LC_{50}—Freshwater, Saltwater

SCDM uses data from the following reference for freshwater and saltwater LC_{50} values:

U.S. Environmental Protection Agency (EPA). 1995a. Aquatic Information Retrieval (AQUIRE) Database. Environmental Research Laboratory, Duluth, MN.

SCDM uses the lowest, acute LC_{50} value found for any aquatic organism in the specified environment with an acute exposure duration of >1 day and ≤4 days. All LC_{50} values where no environment is given but that use NaCl as a control are considered as freshwater LC_{50} values. When no durations or environments are given, LC_{50} values are not entered into SCDM.

2.8 REGULATORY BENCHMARKS

The HRS assigns extra weight to targets with exposure levels to hazardous substances that are at or above benchmark values. This section describes the sources for certain regulatory limits that the HRS uses as health-based or ecological-based benchmarks.

2.8.1 National Ambient Air Quality Standards

SCDM uses data from the following reference for National Ambient Air Quality Standards (NAAQS):

40 CFR Part 50. 1994. National Ambient Air Quality Standards.

2.8.2 National Emissions Standards for Hazardous Air Pollutants

SCDM uses the following reference for National Emission Standards for Hazardous Air Pollutants (NESHAP):

40 CFR Part 61. 1994. National Emission Standards for Hazardous Air Pollutants.

SCDM uses only values that are reported in ambient concentration units ($\mu g/m^3$).

2.8.3 Maximum Contaminant Levels and Maximum Contaminant Level Goals

SCDM uses the following reference for Maximum Contaminant Levels (MCLs) and Maximum Contaminant Level Goals (MCLGs):

U.S. Environmental Protection Agency (EPA). 1995b. *Drinking Water Regulations and Health Advisories*. Office of Water, Washington, DC.

SCDM uses only MCLs that are reported in units of concentration (mg/L or µg/L). SCDM does not contain MCLs for total trihalomethanes (bromoform + bromodichloromethane + chloroform + dibromochloromethane), asbestos, radium isotopes, gross α-particle activity, or β-particle plus photon radioactivity.

SCDM uses only nonzero MCLGs that are reported in units of concentration (mg/L or µg/L). For substances where multiple values are listed due to lack of consensus on appropriate carcinogen class, SCDM contains the lowest number. For substances where both MCLs and MCLGs are reported but are different, SCDM selects the MCLG as the lower of the two values (55 *FR* 51593).

2.8.4 FDA Action Level

SCDM uses the following references (listed in order of preference) for Food and Drug Administration (FDA) Action Levels:

1. U.S. Food and Drug Administration. 1994. *Changes in Action Levels, Addendum to the 1992 Action Levels for Poisonous or Deleterious Substances in Human and Animal Feed.* Center for Food Safety and Applied Nutrition, Washington, DC.

2. U.S. Food and Drug Administration. 1992. *Action Levels for Poisonous or Deleterious Substances in Human and Animal Feed.* Center for Food Safety and Applied Nutrition, Washington, DC.

SCDM contains FDA Action Levels for fish and shellfish only.

2.8.5 Uranium Mill Tailings Radiation Control Act Standards

SCDM uses the following reference for Uranium Mill Tailings Radiation Control Act (UMTRCA) standards:

40 CFR Part 192. 1994. Uranium Mill Tailings Radiation Control Act Standards.

2.8.6 Ecological Based Benchmarks

The Ambient Water Quality Criteria and the Ambient Aquatic Life Advisory Concentrations discussed in Section 2.7.1 are also used to assign the ecological-based benchmarks.

2.9 OTHER CHEMICAL DATA

SCDM contains other chemical data and information that are not contained in the 28 data-files previously discussed. This information is contained in the BASEDATA file.

2.9.1 Physical Properties

SCDM uses data from the following references (listed in order of preference) for chemical formula, molecular weight, density, boiling point, and melting point:

1. Lide, D.R. (Ed.). 1994. *CRC Handbook of Chemistry and Physics.* 75th ed. CRC Press, Boca Raton, FL.

2. Merck. 1989. *The Merck Index.* 11th Edition. S. Budavari, Ed. Merck & Co., Inc., Rahway, NJ.

Data are extracted directly from *Section 3. Physical Constants of Organic Compounds* and *Section 4. Properties of the Elements and Inorganic Compounds* in the CRC Handbook. If data are unavailable in the CRC Handbook, or if the conditions of the experiment are not appropriate

to standard conditions (e.g., temperature is not in the range of 20 to 30 °C), data from the Merck Index are used.

Density values are extracted (preferably in g/mL or g/cc) along with the temperature at which the density was measured (preferably Celsius, or °C). If multiple values are available for density, the value measured closest to 25 °C is selected.

Boiling point and melting point are extracted (preferably in °C) along with the pressure at which boiling point was measured. Note that tests to determine the melting point are usually performed at the same pressure as the boiling point tests. If multiple values are available, the value measured closest to 1 atm (760 Torr or 760 mm Hg) is selected.

2.9.2 Logical Fields

SCDM uses four logical (or boolean yes/no) flags to classify substances that are entered into BASEDATA.

- Organic Substance ("Organic")—"Y" indicates that the substance is organic, and "N" indicates an inorganic substance. This flag is used to determine factor values for ground water mobility and bioaccumulation potential.

- Metal-Containing Substance ("Metal Contain")—"Y" indicates that the substance is a metal or metalloid or an inorganic compound that contains a metal or metalloid. "N" indicates that the substance is not, or does not contain, a metal or metalloid. This flag is used to determine factor values for ground water mobility and surface water persistence.

- Radioactive Isotope ("Radionuclide")—"Y" indicates that the substance is a radionuclide or radioactive isotope, and "N" indicates that it is not. A substance in SCDM cannot be both a radioactive element and a radioactive isotope. This flag is used to determine factor values for human toxicity, ecosystem toxicity, and surface water persistence.

- Radioactive Element ("Rad. Element")—"Y" indicates that the substance is a radioactive element, and "N" indicates that it is not. This flag determines whether or not the HRS factors and benchmarks are printed in Appendix A.

2.9.3 Substitution Classes

SCDM contains fields for three substitution classes: toxicity, ground water mobility, and other data. For a particular chemical, a parent CAS number can be entered for any of these three substitution classes and SCDM automatically copies the relevant data from the parent chemical to the chemical of interest. Toxicity class data include all toxicity and benchmark data used to

determine human or ecotoxicity factor values. Ground water mobility class data include water solubility, geometric mean water solubility, and soil/water distribution coefficient (K_d). "Other" class data include hydrolysis, biodegredation, photolysis, and volatilization half-lives, as well as BCF and Log K_{ow}.

Currently two groups of substances inherit data from a parent substance: metals and radioactive substances. Generally, metal-containing substances inherit data for the ground water mobility class with the elemental metal as the class parent. Radioactive isotopes may inherit data from their primary radioactive element for the ground water and "other" classes.

SECTION 3

CALCULATIONS IN SUPERFUND CHEMICAL DATA MATRIX

3.1 VOLATILIZATION HALF-LIFE

SCDM estimates volatilization half-life in surface water for organic substances using Equation 15-12 from Thomas (1990). In this method, the volatilization half-life ($\tau_{1/2}$) can be expressed as follows,

$$\tau_{1/2} = \frac{Z \times \ln 2}{K_L \text{ hr}} \tag{7}$$

where:

Z = Mean water body depth (cm)
K_L = Overall liquid-phase mass transfer coefficient.

The following expression gives the overall liquid-phase mass transfer coefficient:

$$K_L = \frac{(H/RT)k_g \times k_l}{(H/RT)k_g + k_l} \text{ cm/hr} \tag{8}$$

where:

H = Henry's law constant (atm·m^3/mol)
R = Universal gas constant (8.2×10^{-5} atm·m^3/mol·K)
T = Temperature (K ;°C + 273)
k_g = Gas-phase exchange coefficient
k_l = Liquid-phase exchange coefficient.

The gas-phase exchange coefficient expression depends on the molecular weight (MW) of the compound. If MW is <65 g/mol, the following equation is used:

$$k_g = 3{,}000 \times (18/\text{MW})^{1/2} \text{ cm/hr} . \tag{9}$$

If MW is ≥65 g/mol, the following equation is used:

$$k_g = 1{,}137.5 \times (V_{wind} + V_{curr}) \times (18/MW)^{1/2} \text{ cm/hr} \quad (10)$$

where:

V_{wind} = Wind velocity (m/sec)
V_{curr} = Current velocity (m/sec).

The liquid-phase exchange coefficient expression also depends on the molecular weight of the compound. If MW is <65 g/mol, the following equation is used:

$$k_l = 20 \times (44/MW)^{1/2} \text{ cm/hr} . \quad (11)$$

If MW is ≥65 g/mol, the expression also depends on the wind and current velocities; the following equation is used when V_{wind} is ≤1.9 m/sec and MW is ≥65 g/mol:

$$k_l = 23.51 \times (V_{curr}^{0.969} / Z^{0.673}) \times (32/MW)^{1/2} \text{ cm/hr} . \quad (12)$$

The following equation is used when V_{wind} is >1.9 m/sec and ≤5 m/sec, and MW is ≥65 g/mol:

$$k_l = 23.51 \times (V_{curr}^{0.969} / Z^{0.673}) \times (32/MW)^{1/2} e^{0.526(V_{wind}-1.9)} \text{ cm/hr} . \quad (13)$$

No liquid-phase exchange coefficient equation is provided in Thomas (1990) for wind velocities >5 m/sec.

Combining Equations (7), (8), (9), and (11) into a single equation for estimating volatilization half-life ($\tau_{1/2}$) for compounds with MW <65 g/mol gives the following equation:

$$\tau_{1/2} = Z \times \ln 2 \times \{[(1/20) \times (MW/44)^{1/2}] + [(RT/H \times 3{,}000) \times (MW/18)^{1/2}]\} \text{ hr} . \quad (14)$$

The following equation, combining Equations (7), (8), (10), and (12), can be used to estimate the volatilization half-life ($\tau_{1/2}$) for compounds with MW ≥65 g/mol if the wind velocity is ≤1.9 m/sec:

$$\tau_{1/2} = Z \times \ln 2 \times \{[(Z^{0.673}/23.51 \times V_{curr}^{0.969}) \times (MW/32)^{1/2}] + [(RT/H \times 1{,}137.5) \times (V_{wind} + V_{curr}) \times (MW/18)^{1/2}]\} \text{ hr} . \quad (15)$$

The following equation, combining Equations (7), (8), (10), and (13), can be used to estimate the volatilization half-life ($\tau_{1/2}$) for compounds with MW ≥65 g/mol if the wind velocity is >1.9 m/sec and ≤5 m/sec:

$$\tau_{1/2} = Z \times \ln 2 \times \{[(Z^{0.673}/23.51 \times V_{curr}^{0.969}) \times (MW/32)^{1/2}]\, e^{0.526(1.9-V_{wind})} + [(RT/H \times 1{,}137.5) \times (V_{wind} + V_{curr}) \times (MW/18)^{1/2}]\} \text{ hr} . \quad (16)$$

If H is $<10^{-7}$ atm·m^3/mol, the substance is less volatile than water and its concentration will increase as the water evaporates. The substance is considered essentially nonvolatile (Thomas, 1990, p. 15-15) and no volatilization half-life is estimated for rivers or lakes.

3.1.1 Volatilization Half-Life for Rivers, Oceans, Coastal Tidal Waters, and the Great Lakes

In order to calculate the volatilization half-life for rivers, oceans, coastal tidal waters, and the Great Lakes, the mean water body depth is taken as 100 cm, the temperature as 298 K, the wind velocity as 5 m/sec, and the current velocity as 1 m/sec. Using these values, Equations (14) and (16) reduce to the following:

- MW <65 g/mol

$$\tau^{1/2} = 2.89 \times \{[0.05 \times (MW/44)^{1/2}] + [(8.1 \times 10^{-6}/H) \times (MW/18)^{1/2}]\} \text{ days} \quad (17)$$

- MW ≥65 g/mol

$$\tau^{1/2} = 2.89 \times \{[0.185 \times (MW/32)^{1/2}] + [(3.6 \times 10^{-6}/H) \times (MW/18)^{1/2}]\} \text{ days} \quad (18)$$

where

H = Henry's law constant (atm·m^3/mol)
MW = Molecular weight (g/mol).

3.1.2 Volatilization Half-Life for Lakes

In order to calculate the volatilization half-life for lakes, the mean water body depth is taken as 100 cm, the temperature as 298 K, the wind velocity as 0.5 m/sec, and the current velocity as 0.05 m/sec. Using these values, Equations (14) and (15) reduce to the following:

- MW <65 g/mol

$$\tau^{1/2} = 2.89 \times \{[0.05 \times (MW/44)^{1/2}] + [(8.1 \times 10^{-6}/H) \times (MW/18)^{1/2}]\} \text{ days} \quad (19)$$

- MW ≥65 g/mol

$$\tau^{1/2} = 2.89 \times \{[17.2 \times (MW/32)^{1/2}] + [(3.9 \times 10^{-6}/H) \times (MW/18)^{1/2}]\} \text{ days} \quad (20)$$

where

H = Henry's law constant (atm·m^3/mol)
MW = Molecular weight (g/mol).

3.2 SOIL/WATER DISTRIBUTION COEFFICIENTS (K_d)

As described in Section 2.4.5, SCDM soil/water distribution coefficients (K_d, mL/g) are based on the relationship

$$K_d = K_{oc} \times f_{oc} \quad (21)$$

where K_{oc} is the chemical's soil organic carbon/water partition coefficient (mL/g) and f_{oc} is assumed to be 0.002 g organic carbon/g soil. For organic chemicals without K_d values in SCDM datafiles SSG_KD or RTI_ION (see Section 2.4.5), SCDM calculates a K_d value based on this relationship, using a K_{oc} value calculated from a compound's SCDM Log octanol/water partition coefficient (Log K_{ow} or Log P). To perform this calculation, SCDM uses the relationship between these properties determined by DiToro (1985) for semivolatile organic compounds:

$$K_{oc} = 0.00028 + 0.983 \text{ Log } K_{ow} . \quad (22)$$

This equation is also used in the Soil Screening Guidance (EPA, 1996b).

Combining Equations (21) and (22) yields the following equation:

$$K_d = f_{oc} \times 10^{(0.00028 + 0.983 \text{Log } K_{ow})} . \quad (23)$$

For any organic hazardous substance for which no K_d value is available in SCDM datafiles SSG_KD or RTI_ION, but with a Log K_{ow} value chosen as described in Section 2.6.2, SCDM calculates K_d using Equation (23).

3.3 SCREENING CONCENTRATION BENCHMARKS

The HRS assigns extra weight to targets with exposure levels to hazardous substances that are at or above benchmark values. In addition to the regulatory limits discussed in Section 2.8, the HRS uses a number of benchmarks called screening concentrations. Screening concentrations correspond to a 10^{-6} individual cancer risk or a noncancer hazard quotient of 1 under specified exposure assumptions. These assumptions, discussed below, are conservative and broadly apply to sites nationwide. The Agency recognizes that modeling human activity patterns would provide a more realistic determination of exposure or risk. While such information may be determined on a site-specific basis with considerable effort, it is difficult to develop assumptions on the activity patterns of target populations that could be applied to sites on a nationwide basis in order to develop exposure scenarios for the HRS. For this reason, the HRS exposure assumptions reflect values used for the assessment of risk throughout different programs within the Agency. EPA recognizes that a critical evaluation of the references cited below, along with other information, could lead to differing exposure assumptions. Moreover, the Agency is still refining the assumptions used in this area of risk assessment.

EPA also considered the limited number of samples available at the National Priority List (NPL) listing stage when it selected these assumptions. As outlined in the Field Test of the proposed revised HRS, the Agency generally expects to have <100 samples for all pathways to support the HRS analysis. This limited sampling may miss areas of maximum contamination, or "hot spots," and thus the sample results may not represent the maximum level of contamination. Although using conservative exposure assumptions does not fully compensate for the limited data available for analysis, using less conservative assumptions would likely lead to a greater incidence of false negatives; i.e., the Agency may not identify sites that should be investigated further under the remedial program.

3.3.1 Screening Concentrations for Drinking Water Pathways

The following equation (EPA, 1989b, p. 6-35) is used to calculate the average daily intake of a hazardous substance from the ingestion of contaminated ground water or surface water:

$$\text{Average Daily Intake (mg/kg-day)} = \frac{C_{water} \times IR \times EF \times ED}{BW \times AT} \qquad (24)$$

where:

C_{water} = Contaminant concentration in water (mg/L)
IR = Drinking water intake (ingestion) rate (L/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
BW = Body weight (kg)
AT = Averaging time (days).

Under the assumptions used for HRS purposes, the adult drinking water ingestion rate is 2 L/day, the exposure frequency for residents is daily (350 days/year), the exposure duration is 30 years, and the average adult body weight is 70 kg. The ingestion rate of 2 L/day is routinely used by the Agency as the default value for drinking water ingestion and assumes that the entire 2 L are from the contaminated drinking water source. Refinements in risk assessments sometime assume that an individual will be away for vacations or that some water will be consumed at the workplace.

Cancer Risk Screening Concentration. The cancer risk screening concentration is estimated by solving Equation (24) for the contaminant concentration in a medium of concern (C_{medium}), at a specified target risk level using the following relationship:

$$\text{Target Risk} = \text{Average Daily Intake} \times \text{Cancer Slope Factor (SF)} \; . \qquad (25)$$

When Equation (25) is rearranged to solve for the average daily intake (I), Equations (24) and (25) can be combined to estimate the water concentration (C_{water}) that corresponds to a 10^{-6} target risk level. Over a lifetime, the average daily intake may be calculated assuming an averaging time (AT) of 25,550 days (i.e., 70 years) for carcinogenic effects. Therefore, the drinking water screening concentration for carcinogens presumed to result in one excess case of cancer per million people exposed (SC_c) is given by:

$$SC_c = \frac{10^{-6} \times BW \times 25{,}550 \text{ days}}{SF_{oral} \times IR \times EF \times ED} . \tag{26}$$

With the exposure assumptions described above for Equation (24), Equation (26) may be simplified as:

$$SC_c \text{ (mg/L)} = \frac{8.52 \times 10^{-5}}{SF_{oral}} . \tag{27}$$

This equation is used to calculate SC_c for nonradioactive carcinogenic substances. Because cancer slope factors for radionuclides are in units of pC_i^{-1}, body weight and averaging time do not apply. Thus, the following equation for radionuclides is analogous to Equation (26) for chemical carcinogens:

$$SC_c = \frac{10^{-6}}{SF_{oral} \times IR \times EF \times ED} . \tag{28}$$

When the exposure assumptions described for Equation (24) are used, Equation (28) may be rewritten to estimate the concentration in water that corresponds to a target risk level of 10^{-6}. The screening concentration for radionuclides ingested in drinking water (SC_r) is given by:

$$SC_r \text{ (pC}_i\text{/L)} = \frac{4.76 \times 10^{-11}}{SF_{oral}} . \tag{29}$$

Noncancer Risk Screening Concentration. The RfD is based on the assumption that thresholds exist for certain toxic effects. In general, the RfD is an estimate (with uncertainty spanning perhaps an order of magnitude) of a daily exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime. When the acceptable daily intake for drinking water ingestion is set equal to the RfD_{oral} (i.e., hazard quotient = 1), Equation (24) may be rearranged to solve for the contaminant concentration in water that corresponds to the no adverse effects level described above. To solve for the drinking water screening concentration for noncarcinogens (SC_n), Equation (24) becomes:

$$SC_n = \frac{RfD_{oral} \times BW \times AT}{IR \times EF \times ED} . \quad (30)$$

For noncarcinogenic effects, the averaging time is 30 years, or 10,950 days. When the assumptions described for Equation (24) are used, Equation (30) may be simplified as:

$$SC_n \text{ (mg/L)} = RfD_{oral} \times 36.5 . \quad (31)$$

3.3.2 Screening Concentrations for the Surface Water Food Chain Pathway

The following equation (EPA, 1989b, p. 6-45) is used to calculate the average daily intake from fish and shellfish ingestion:

$$\text{Average Daily Intake (mg/kg-day)} = \frac{C_{fish} \times IR \times F \times EF \times ED}{BW \times AT} \quad (32)$$

where:

C_{fish} = Contaminant concentration in fish/shellfish (mg/kg)
IR = Fish/shellfish intake (ingestion) rate (kg/day)
F = Fraction ingested from contaminated source (unitless)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
BW = Body weight (kg)
AT = Averaging time (days).

The high end fish ingestion rate for recreational fishers is 0.054 kg/day (USDA, 1982), with the fraction ingested (F) set equal to 1 (i.e., all fish are assumed to come from contaminated waters). The exposure frequency is assumed to be 350 days/year, the exposure duration is 30 years, and the average adult body weight is 70 kg.

Cancer Risk Screening Concentration. When Equation (25) is rearranged to solve for the average daily intake (I), Equations (25) and (32) can be combined to estimate the fish/shellfish concentration that corresponds to a 10^{-6} target risk level. Over a lifetime, the average daily intake may be calculated assuming an averaging time (AT) of 25,550 days (i.e., 70 years) for

carcinogenic effects. Therefore, the fish/shellfish concentration presumed to result in one excess case of cancer per million people exposed (SC_c) is given by:

$$SC_c = \frac{10^{-6} \times BW \times 25{,}550 \text{ days}}{SF_{oral} \times IR \times F \times EF \times ED} . \tag{33}$$

Using the exposure assumptions listed for Equation (31) results in a simplified screening concentration equation for nonradioactive carcinogenic substances in fish/shellfish:

$$SC_c \text{ (mg/kg)} = \frac{3.15 \times 10^{-3}}{SF_{oral}} . \tag{34}$$

If the same exposure assumptions, excluding body weight and averaging time, are used, Equation (34) may be rewritten to estimate the fish/shellfish concentration that corresponds to a target risk level of 10^{-6} for ingestion of radionuclides in fish and shellfish (SC_r):

$$SC_r \text{ (pC}_i\text{/kg)} = \frac{1.76 \times 10^{-9}}{SF_{oral}} . \tag{35}$$

Noncancer Risk Screening Concentration. Setting the intake from fish and shellfish ingestion equal to the oral reference dose (RfD_{oral}) and solving Equation (32) for concentration gives the following equation:

$$SC_n = \frac{RfD_{oral} \times BW \times AT}{IR \times F \times EF \times ED} . \tag{36}$$

For noncarcinogenic effects, the averaging time is 30 years, or 10,950 days. If the other assumptions listed for Equation (32) are used, Equation (36) may be simplified as follows:

$$SC_n \text{ (mg/kg)} = RfD_{oral} \times 1{,}352 . \tag{37}$$

3.3.3 Screening Concentrations for Soil Ingestion

The following equation (EPA, 1991, p. 3-25) is used to calculate the average daily intake from soil ingestion:

$$\text{Average Daily Intake (mg/kg-day)} = \frac{C_{soil} \times CF \times IF \times EF}{AT} \tag{38}$$

where:

C_{soil} = Contaminant concentration in soil (mg/kg)
CF = Conversion factor (10^{-6} kg/mg)
IF = Age-adjusted soil ingestion factor (mg-yr/kg-day)
EF = Exposure frequency (days/year)
AT = Averaging time (days)

and IF is given by:

$$IF_{soil/adj}\ (\text{mg-yr/kg-day}) = \frac{IR_{soil/age1-6} \times ED_{age1-6}}{BW_{age1-6}} + \frac{IR_{soil/age7-13} \times ED_{age7-31}}{BW_{age7-31}} \tag{39}$$

where:

$IR_{soil/age1-6}$ = Soil intake (ingestion) rate, age 1 to 6 (mg/day)
ED_{age1-6} = Exposure duration during ages 1-6 (yr)
BW_{age1-6} = Average body weight from ages 1-6 (kg)
$IR_{soil/age7-31}$ = Soil intake (ingestion) rate, ages 7 and older (mg/day)
$ED_{age7-31}$ = Exposure duration during ages 7-31 (yr)
$BW_{age7-31}$ = Average body weight from ages 7-31 (kg).

The soil ingestion rate is assumed to be 200 mg/day for ages 6 and younger, and 100 mg/day for ages 7 and older; the exposure durations are 6 years and 24 years for children and "adults" (ages 7 to 31), respectively; and the average body weights are 15 kg for children and 70 kg for adults. As with Equation (24), the exposure frequency is assumed to be 350 days/year. With these assumptions, the age-adjusted soil ingestion factor is 114 mg-yr/kg-day.

Cancer Risk Screening Concentration. When Equation (25) is rearranged to solve for the average daily intake (I), Equations (25) and (38) can be combined to estimate the soil concentration that corresponds to a 10^{-6} target risk level. Over a lifetime, the average daily intake may be calculated assuming an averaging time (AT) of 25,550 days (i.e., 70 years) for carcinogenic effects. Therefore, the screening soil concentration presumed to result in one excess case of cancer per million people exposed (SC_c) is given by:

$$SC_c = \frac{10^{-6} \times 25{,}500 \text{ days}}{SF_{oral} \times IF \times CF \times EF} . \tag{40}$$

Using the assumptions listed for Equations (38) and (39) results in a simplified screening concentration equation for nonradioactive carcinogenic substances in soil:

$$SC_c \text{ (mg/kg)} = \frac{0.640}{SF_{oral}} . \tag{41}$$

Since cancer slope factors for radionuclides are provided in pCi^{-1}, body weight and averaging time do not apply. As a result, IF is calculated without body weight (BW) in Equation (39) and is equal to 3,600 mg-yr/day. If the other exposure assumptions described for chemical carcinogens are used, Equation (41) may be rewritten to estimate the soil concentration that corresponds to a target risk level of 10^{-6} for ingestion of radionuclides in contaminated soils (SC_r):

$$SC_r \text{ (pCi/kg)} = \frac{7.94 \times 10^{-7}}{SF_{oral}} . \tag{42}$$

Noncancer Risk Screening Concentration. Setting the intake from soil ingestion equal to the oral reference dose (RfD_{oral}) and solving Equation (38) for concentration gives the following equation:

$$SC_n = \frac{RfD_{oral} \times BW \times AT}{IR \times CF \times EF \times ED} . \tag{43}$$

For noncarcinogenic effects, the averaging time (AT) is a function of the exposure duration (ED) assumed for children or 6 years × 365 days/year = 2,190 days. Assuming daily exposure (i.e., EF = 350 days/year), an average body weight of 15 kg, and an ingestion rate (IR) for children of 200 mg soil per day results in the following simplified equation:

$$SC_n \text{ (mg/kg)} = RfD_{oral} \text{ (mg/kg-day)} \times 78{,}214 \ . \tag{44}$$

3.3.4 Screening Concentrations for the Air Pathway

The following equation (EPA, 1989b, p. 6-44) is used to calculate intake from inhalation of airborne hazardous substances:

$$\text{Average Daily Intake (mg/kg-day)} = \frac{C_{air} \times IR \times EF \times ED}{BW \times AT} \tag{45}$$

where:

C_{air} = Contaminant concentration in air (mg/m^3)
IR = Air intake (inhalation) rate (m^3/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
BW = Body weight (kg)
AT = Averaging time (days).

The inhalation rate is assumed to be 20 m^3/day, the exposure frequency is 350 days/year, the exposure duration is 30 years, and the average adult body weight is 70 kg.

Cancer Risk Screening Concentration. By rearranging Equation (25) to solve for the average daily intake (I), Equations (25) and (45) can be combined to estimate the concentration in air that corresponds to a 10^{-6} target risk level. Over a lifetime, the average daily intake may be calculated assuming an averaging time (AT) of 25,550 days (i.e., 70 years) for carcinogenic effects. Therefore, the air concentration presumed to result in one excess case of cancer per million people exposed (SC_c) is given by:

$$SC_c = \frac{10^{-6} \times BW \times 25{,}550 \text{ days}}{SF_{inhal} \times IR \times EF \times ED} \ . \tag{46}$$

Using the exposure assumptions listed above for Equation (45) results in the following equation for nonradioactive carcinogenic substances:

$$SC_c\ (mg/m^3) = \frac{8.52 \times 10^{-6}}{SF_{inhal}} . \tag{47}$$

Using the same exposure assumptions (excluding body weight and averaging time), Equation (46) may be rewritten to estimate the air concentration of radionuclides that corresponds to a target risk level of 10^{-6} for inhalation of contaminated air (SC_r):

$$SC_r\ (pC_i/m^3) = \frac{4.76 \times 10^{-12}}{SF_{inhal}} . \tag{48}$$

Noncancer Risk Screening Concentration. Setting the average daily intake equal to the inhalation reference dose (RfD_{inhal}) and solving Equation (45) for the air concentration results in the following equation:

$$SC_n = \frac{RfD_{inhal} \times BW \times AT}{IR \times EF \times ED} . \tag{49}$$

For noncarcinogenic effects, the averaging time (AT) is 30 years, or 10,950 days. The inhalation rate (IR) is assumed to be 20 m^3/day, the exposure frequency (EF) is 350 days/year, the exposure duration (ED) is 30 years, and the average adult body weight (BW) is 70 kg. When these assumptions are used, Equation (49) may be simplified as:

$$SC_n\ (mg/m^3) = RfD_{inhal} \times 3.65 . \tag{50}$$

SECTION 4

CHEMICAL DATA, FACTOR VALUES, AND BENCHMARKS

Appendix A contains a two-page listing of selected data, HRS factor values, and benchmarks for each hazardous substance in SCDM (the "SCDM page reports"). Data selected for SCDM for each substance are on the first page; factor values and benchmarks are on the second page.

Figure 1 presents the header that appears on both sides of the page report. The header contains the date the report was printed, the substance name and synonym, the SCDM version (month, year), and the Chemical Abstract Service (CAS) number for the substance.

```
Date:       06/15/96                SUPERFUND CHEMICAL DATA MATRIX          SCDM Version: JUN96
Chemical:   Acenaphthene                                                    CAS Number:   000083-32-9
```

Figure 1. Page Heading

The first page contains all of the selected chemical data, the data units, and an acroynym describing the source of the information in SCDM. The chemical data are divided into six functional groups: toxicity, persistence, physical characteristics, mobility, bioaccumulation, and other data.

The toxicity section (Figure 2) contains the acute, chronic, and carcinogenicity data that were compiled using the methodology described in Sections 2.2, 2.3, and 2.7 and used to derive toxicity and ecotoxicity factor values. The top half of this section contains the data used to determine the human toxicity factor value: reference dose (oral and inhalation), cancer slope factor (oral and inhalation), ED_{10} (oral and inhalation),

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.0E+01	µg/L	AQUIRE
Salt Ecol LC50:	2.2E+03	µg/L	AQUIRE

Figure 2. Toxicity Section

LD_{50} (oral and dermal), and LC_{50} (gas and dust inhalation). The bottom half of this section contains the data used to determine an ecotoxicity factor value: acute and chronic ambient water quality criteria (AWQC) for fresh and salt water, acute and chronic aquatic life advisory concentrations (AALACs) for fresh and salt water (at this time no AALACs have been promulgated), and fresh and salt water LC_{50} values. Blank entries indicate that no value was found using the procedures and references specified in Section 2.

The persistence section (Figure 3) contains the surface water persistence data compiled using the methodology described in Sections 2.5, 2.6.2, and 3.1. Surface water persistence factors can also be determined using the logarithm of the *n*-octanol/water partition coefficient (Log K_{ow} or Log P) if, as specified in the HRS, this gives a higher factor value than the half-lives (or a default, if applicable).

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:	2.5E+00	days	FATERATE
Biodeg:	1.0E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+00	days	THOMAS
Photolysis:	2.5E+00	days	FATERATE
Biodeg:	1.0E+02	days	FATERATE
Radio:		days	
Log Kow:	3.9E+00		RTI_LOGP

Figure 3. Persistence Section

The physical characteristics section (Figure 4) contains logical "yes/no" flags that classify the substance. The "metal contain" flag indicates that the hazardous substance is a metal or metalloid and is used to determine ground water mobility and surface water persistence factors. The "organic" and "inorganic" flags are used to determine ground water mobility and bioaccumulation. The "radionuclide" flag is used to determine the human toxicity factor, the ecosystem toxicity factor, and the surface water persistence factor. The radioactive element flag ("rad. element") is used to determine whether or not the HRS factors and benchmarks (second page) are printed. The gas and particulate flags are used to determine mobility and likelihood of release for the air pathway. Molecular weight is used to determine volatilization half-life, as described in Section 3.1.

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.5E+02
Density:	1.0E+00 g/mL @ 99.00° C

Figure 4. Physical Characteristics

The mobility section (Figure 5) contains the air and ground water mobility data compiled using the methodology described in Sections 2.4.3, 2.4.4, 2.4.5, and 3.2. Vapor pressure and

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.5E-03	Torr	CHEMFATE
Henry's Law:	1.6E-04	atm-m3/mol	CHEMFATE
Water Solub:	4.2E+00	mg/L	LIVECHEM
Distrib Coef:	1.4E+01	ml/g	
Geo. Mean Sol.:			

Figure 5. Mobility Section

Henry's law constant are used to determine gas migration potential and gas mobility factors. Henry's law constant is also used to calculate the volatilization half-life as described in Section 3.1. Water solubility and the soil/water distribution coefficient are used to determine the ground water mobility factor. Substance-specific water solubility is used for nonmetal and nonmetalloid substances, whereas for metal-containing substances the solubility value is the geometric mean of the available water solubilities for inorganic compounds containing the hazardous substance.

The bioaccumulation section (Figure 6) contains the human food chain and environmental bioaccumulation potential factor data compiled using the methodology described in Section 2.6. Bioconcentration factors (BCFs) are collected for fresh and salt water for the human food chain and environmental threats. Log K_{ow} or water solubility is used to establish bioaccumulation potential when a BCF is not available.

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.9E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	3.9E+02		VER_BCF
Salt BCF:			
Log Kow:	3.9E+00		RTI_LOGP
Water Solub:	4.2E+00	mg/L	LIVECHEM

Figure 6. Bioaccumulation Section

The section labeled "other data" (Figure 7) contains values for melting points and boiling points (°C) along with the associated vapor pressure (Torr), if applicable. Chemical formula is also listed here.

OTHER DATA

Melting Point :93.40° C
Boiling Point :279.00° C
Formula :C12H10

Figure 7. Other Data Section

The class information section (Figure 8) lists parent substances for three data substitution classes: toxicity, ground water mobility, and other data. The toxicity class includes all toxicity and benchmark data used to determine human or ecotoxicity factor values. The ground water mobility class includes water solubility, soil/water distribution coefficient, and geometric mean water solubility. The "other" class includes hydrolysis, biodegradation, photolysis, and volatilization half-lives, as well as BCFs and Log K_{ow}.

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Figure 8. Class Information Section

Currently only two groups of substances inherit data from a parent substance: metals and radioactive substances. Generally, metal-containing substances inherit data for the ground water mobility class with the elemental metal as the class parent. Radioactive isotopes may inherit data from their primary radioactive element for the ground water mobility and "other" classes.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	4.2E+00
Distrib:	1.4E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Figure 9. Assigned Factor Values Section

The second page for each substance is divided into top and bottom sections that contain factor values (Figure 9) and benchmarks (Figure 10) required by the HRS. SCDM determines factor values using HRS methodologies, from selected data on the first page of the SCDM page report. The factor values are presented by pathway: air, ground water, soil exposure, and surface water. The surface water pathway is further subdivided by threat: drinking water, human food chain, and environmental. The toxicity factor value represents human toxicity and is the same for all pathways. The air pathway gas migration factor value is used to determine likelihood of release. The surface water environmental toxicity factor values are based on fresh and salt water ecosystem toxicity data, and the surface water persistence factor values are based on BCFs for all aquatic species. The surface water human food chain factor values are based on human toxicity and BCFs for only those aquatic species consumed by humans. For radioactive substances, human toxicity, ecosystem toxicity, and surface water persistence factor values are determined as specified in Chapter 7 of the HRS.

The benchmarks (Figure 10), like the factor values, are presented by pathway: air, ground water, soil exposure, and surface water. The surface water pathway is further subdivided by threat: drinking water, human food chain, and environmental. For HRS scoring, actual sampled contaminant concentrations for a particular media are compared to these benchmark concentrations to determine if the target will be scored as subject to Level I or Level II contamination.

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	4.7E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	8.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Figure 10. Benchmarks Section

Appendix B-1 contains tables for nonradioactive hazardous substances. The first table in Appendix B-1 lists all of the factor values by pathway. The second table presents the benchmarks for the air and ground water pathways, the third table presents benchmarks for the surface water pathway, and the fourth table presents benchmarks for the soil exposure pathway. Appendix B-2 contains tables for radionuclides; the first table lists all of the factor values by pathway, and the second table presents benchmarks for all pathways. Appendix C contains a cross-reference index of hazardous substance names, synonyms, and CAS numbers for substances in SCDM.

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Appendix A

Chemical Data, Factor Values, and Benchmarks for Chemical Substances

Date: 07/02/96
Chemical: Acenaphthene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000083-32-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.0E+01	µg/L	AQUIRE
Salt Ecol LC50:	2.2E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	8.8E+01	days	THOMAS
Photolysis:	2.5E+00	days	FATERATE
Biodeg:	1.0E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+00	days	THOMAS
Photolysis:	2.5E+00	days	FATERATE
Biodeg:	1.0E+02	days	FATERATE
Radio:		days	
Log Kow:	3.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.00E+02
Density:	1.0E+00 g/mL @ 99.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.5E-03	Torr	CHEMFATE
Henry's Law:	1.6E-04	atm-m3/mol	CHEMFATE
Water Solub:	4.2E+00	mg/L	LIVECHEM
Distrib Coef:	1.4E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.9E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	3.9E+02		VER_BCF
Salt BCF:			
Log Kow:	3.9E+00		RTI_LOGP
Water Solub:	4.2E+00	mg/L	LIVECHEM

OTHER DATA

Melting Point :93.40° C
Boiling Point :279.00° C
Formula :C12H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Acenaphthene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000083-32-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	4.2E+00
Distrib:	1.4E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	4.7E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	8.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Acenaphthylene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000208-96-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	1.6E+01
Distrib:	6.2E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	2.6E-03	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:	7.7E-03	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.6E+02	mg/kg	C_EENV
Dermal LD50:	3.5E+03	mg/kg	RTECS
Gas Inhal LC50:	1.3E+04	ppm	ACGIH
Dust Inhal LC50:	2.4E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.1E+04	µg/L	AQUIRE
Salt Ecol LC50:	7.0E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	6.1E-01	days	THOMAS
Photolysis:	1.2E+01	days	CHEMFATE
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	6.1E-01	days	THOMAS
Photolysis:	1.2E+01	days	CHEMFATE
Biodeg:		days	
Radio:		days	
Log Kow:	-4.7E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.40E+01
Density:	7.8E-01 g/mL @ 18.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.0E+02	Torr	CHEMFATE
Henry's Law:	7.9E-05	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	6.9E-04	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-4.7E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-123.00° C
Boiling Point :20.10° C
Formula :C2H4O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.0E+06
Distrib:	6.9E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.1E-03	mg/m3
Non Cancer Risk:	9.4E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Acetone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000067-64-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.5E+03	mg/kg	ACGIH
Dermal LD50:	2.0E+04	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	5.0E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+04	µg/L	AQUIRE
Salt Ecol LC50:	2.1E+06	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	-2.4E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.81E+01
Density:	7.9E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.3E+02	Torr	CHEMFATE
Henry's Law:	3.9E-05	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	1.2E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-2.4E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-94.80° C
Boiling Point :56.00° C
Formula :C3H6O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Acetone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000067-64-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	°1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.0E+06
Distrib:	1.2E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Acetonitrile

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-05-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-03	mg/kg/day	IRIS
Inhal RfD:	6.0E-02	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.8E+02	mg/kg	C_EENV
Dermal LD50:	1.3E+03	mg/kg	RTECS
Gas Inhal LC50:	2.7E+03	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+06	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	5.5E+07	days	FATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	5.5E+07	days	FATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	-3.4E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.11E+01
Density:	7.9E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.1E+01	Torr	CHEMFATE
Henry's Law:	3.5E-05	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	9.3E-04	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-3.4E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-43.80° C
Boiling Point :81.60° C
Formula :C2H3N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Acetonitrile

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-05-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.0E+06
Distrib:	9.3E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.2E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	4.7E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	8.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:	1.6E+04	mg/kg	RTECS
Gas Inhal LC50:	2.1E+02	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.20E+02
Density:	1.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.0E-01	Torr	CHEMFATE
Henry's Law:	1.1E-05	atm-m3/mol	CHEMFATE
Water Solub:	6.1E+03	mg/L	CHEMFATE
Distrib Coef:	8.2E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.9E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.5E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.6E+00		RTI_LOGP
Water Solub:	6.1E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :20.00° C
Boiling Point :202.00° C
Formula :C8H8O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Acetophenone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000098-86-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	6.1E+03
Distrib:	8.2E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Acetyl-2-thiourea, 1- CAS Number: 000591-08-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+01	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.18E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	9.9E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	9.9E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :165.00° C
Boiling Point :
Formula :C3 H6 N2 O S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Acetyl-2-thiourea, 1-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000591-08-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	HEAST
Inhal RfD:	5.7E-06	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.6E+01	mg/kg	ACGIH
Dermal LD50:	2.0E+02	mg/kg	RTECS
Gas Inhal LC50:	8.0E+00	ppm	ACGIH
Dust Inhal LC50:	3.0E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.0E+00	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.61E+01
Density:	8.4E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.7E+02	Torr	CHEMFATE
Henry's Law:	1.2E-04	atm-m3/mol	CHEMFATE
Water Solub:	2.1E+05	mg/L	CHEMFATE
Distrib Coef:	2.0E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.4E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	3.4E+02		VER_BCF
Salt BCF:			
Log Kow:	-1.0E-02		RTI_LOGP
Water Solub:	2.1E+05	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	5.0E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	5.0E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	-1.0E-02		RTI_LOGP

OTHER DATA

Melting Point :-87.70° C
Boiling Point :52.60° C
Formula :C3H4O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.1E+05
Distrib:	2.0E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0700
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	1000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

* BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-05	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Acrylamide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000079-06-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	4.5E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	4.6E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.1E+02	mg/kg	C_EENV
Dermal LD50:	4.0E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.7E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.11E+01
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.0E-03	Torr	CHEMFATE
Henry's Law:	1.0E-09	atm-m3/mol	CHEMFATE
Water Solub:	6.4E+05	mg/L	CHEMFATE
Distrib Coef:	2.3E-04	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.7E+00		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.7E+00		AQUIRE
Salt BCF:			
Log Kow:	-9.6E-01		RTI_LOGP
Water Solub:	6.4E+05	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	6.6E+03	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	6.6E+03	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	-9.6E-01		RTI_LOGP

OTHER DATA

Melting Point :84.50° C
Boiling Point :192.60° C
Formula :C3H5NO

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.2000
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.4E+05
Distrib:	2.3E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.9E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.9E-05	mg/L
Non Cancer Risk:	7.3E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.4E-01	mg/kg
Non Cancer Risk:	1.6E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.9E-05	mg/L
Non Cancer Risk:	7.3E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	7.0E-04	mg/kg
Non Cancer Risk:	2.7E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Acrylic acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000079-10-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-01	mg/kg/day	IRIS
Inhal RfD:	2.9E-04	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.5E+02	mg/kg	ACGIH
Dermal LD50:	2.8E+02	mg/kg	C_EENV
Gas Inhal LC50:	6.0E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.7E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	3.5E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.21E+01
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.0E+00	Torr	CHEMFATE
Henry's Law:	1.2E-07	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	4.4E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.5E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :12.30° C
Boiling Point :141.00° C
Formula :C3H4O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Acrylic acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000079-10-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.0E+06
Distrib:	4.4E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.0E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Acrylonitrile

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000107-13-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-03	mg/kg/day	HEAST
Inhal RfD:	5.7E-04	mg/kg/day	IRIS
Oral Slope:	5.4E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B1		IRIS
Inhal Slope:	2.4E-01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B1		IRIS
Oral ED10:	4.4E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B1		EPA_ED10
Inhal ED10:	4.4E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B1		EPA_ED10
Oral LD50:	9.3E+01	mg/kg	C_EENV
Dermal LD50:	2.0E+02	mg/kg	RTECS
Gas Inhal LC50:	6.4E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.6E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+04	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.31E+01
Density:	8.1E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.1E+02	Torr	CHEMFATE
Henry's Law:	1.0E-04	atm-m3/mol	CHEMFATE
Water Solub:	7.4E+04	mg/L	CHEMFATE
Distrib Coef:	3.5E-03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.4E+05	days	FATE
Volatility:	5.5E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.3E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.4E+05	days	FATE
Volatility:	5.5E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.3E+01	days	FATERATE
Radio:		days	
Log Kow:	2.5E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	4.8E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	4.8E+01		VER_BCF
Salt BCF:			
Log Kow:	2.5E-01		RTI_LOGP
Water Solub:	7.4E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-83.50° C
Boiling Point :77.30° C
Formula :C3H3N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	7.4E+04
Distrib:	3.5E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	3.6E-05	mg/m3
Non Cancer Risk:	2.1E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.6E-04	mg/L
Non Cancer Risk:	3.7E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.2E+00	mg/kg
Non Cancer Risk:	7.8E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.6E-04	mg/L
Non Cancer Risk:	3.7E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.8E-03	mg/kg
Non Cancer Risk:	1.4E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.9E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	9.7E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.1E+00	days	CHEMFATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.1E+00	days	CHEMFATE
Radio:		days	
Log Kow:	8.0E-02		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.46E+02
Density:	1.4E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.3E-02	Torr	LIVECHEM
Henry's Law:	2.2E-09	atm-m3/mol	CHEMFATE
Water Solub:	1.4E+04	mg/L	LIVECHEM
Distrib Coef:	2.4E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	8.0E-02		RTI_LOGP
Water Solub:	1.4E+04	mg/L	LIVECHEM

OTHER DATA

Melting Point :153.20° C
Boiling Point :337.50° C
Formula :C6H10O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Adipic acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000124-04-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.2000
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.4E+04
Distrib:	2.4E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.0E-01	mg/kg	RTECS
Dermal LD50:	2.5E+00	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.7E+01	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.90E+02
Density:	1.2E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.5E-05	Torr	CHEMFATE
Henry's Law:	1.4E-09	atm-m3/mol	CHEMFATE
Water Solub:	6.0E+03	mg/L	CHEMFATE
Distrib Coef:	2.5E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.3E+02	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.3E+02	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
Log Kow:	1.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.1E+00		RTI_LOGP
Water Solub:	6.0E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :99.00° C
Boiling Point :
Formula :C7H14N2O2S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Aldicarb

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000116-06-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	6.0E+03
Distrib:	2.5E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.7E+01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	1.7E+01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	4.2E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	4.2E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	6.0E+01	mg/kg	ACGIH
Dermal LD50:	3.9E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	3.0E+00	µg/L	WATCRIT
Salt AWQC:	1.3E+00	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	9.7E-02	µg/L	AQUIRE
Salt Ecol LC50:	2.0E+00	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	8.0E+02	days	FATE
Volatility:	1.7E+02	days	THOMAS
Photolysis:		days	
Biodeg:	5.9E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	8.0E+02	days	FATE
Volatility:	2.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:	5.9E+02	days	FATERATE
Radio:		days	
Log Kow:	6.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.65E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.0E-06	Torr	CHEMFATE
Henry's Law:	1.7E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.8E-01	mg/L	LIVECHEM
Distrib Coef:	4.9E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.4E+05		AQUIRE
Salt BCF:			
Log Kow:	6.5E+00		RTI_LOGP
Water Solub:	1.8E-01	mg/L	LIVECHEM

OTHER DATA

Melting Point :104.00° C
Boiling Point :
Formula :C12H8Cl6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Aldrin

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000309-00-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.8E-01
Distrib:	4.9E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.0E-07	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.0E-06	mg/L
Non Cancer Risk:	1.1E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	3.8E-02	mg/kg
Non Cancer Risk:	2.3E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.0E-06	mg/L
Non Cancer Risk:	1.1E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	3.0E-01	ppm
Cancer Risk:	1.9E-04	mg/kg
Non Cancer Risk:	4.1E-02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	3.0E+00	µg/L
Salt AWQC:	1.3E+00	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Allyl alcohol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000107-18-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.4E+01	mg/kg	ACGIH
Dermal LD50:	4.5E+01	mg/kg	RTECS
Gas Inhal LC50:	7.6E+01	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+02	µg/L	AQUIRE
Salt Ecol LC50:	3.3E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	7.7E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	7.7E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	1.7E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.81E+01
Density:	8.5E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.6E+01	Torr	CHEMFATE
Henry's Law:	5.6E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	2.9E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.7E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-129.00° C
Boiling Point :97.00° C
Formula :C3H6O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Allyl alcohol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000107-18-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.0E+06
Distrib:	2.9E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	2.9E-04	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.7E+02	mg/kg	C_EENV
Dermal LD50:	2.1E+03	mg/kg	RTECS
Gas Inhal LC50:	5.8E+00	ppm	ACGIH
Dust Inhal LC50:	5.8E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.4E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.4E+01	days	FATERATE
Volatility:	7.7E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.4E+01	days	FATERATE
Volatility:	8.3E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.65E+01
Density:	9.4E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.7E+02	Torr	CHEMFATE
Henry's Law:	1.1E-02	atm-m3/mol	CHEMFATE
Water Solub:	3.4E+03	mg/L	CHEMFATE
Distrib Coef:	5.3E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.5E+00		RTI_LOGP
Water Solub:	3.4E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-134.50° C
Boiling Point :45.10° C
Formula :C3 H5 Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	3.4E+03
Distrib:	5.3E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.0E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Aluminum

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007429-90-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.0E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.70E+01
Density:	2.7E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.6E+01		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	3.6E+01		AQUIRE
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :660.37° C
Boiling Point :2467.00° C
Formula :Al

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Aluminum

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007429-90-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	
Distrib:	1.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.80E+01
Density:	2.4E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Al P

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Aluminum phosphide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 020859-73-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Americium 241

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014596-10-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.3E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	3.9E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.41E+02
Density:	1.4E+01 g/mL @ 0.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	4.6E-03	mg/L	LIVECHEM
Distrib Coef:	6.8E+02	ml/g	BAES_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.6E+05	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.6E+05	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	LIVECHEM

OTHER DATA

Melting Point :994.00° C
Boiling Point :2607.00° C
Formula :Am-241

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Americium 241

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014596-10-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	6.8E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.2E-04	pCi/m3
DW:	1.5E-01	pCi/L
FC:	5.4E+00	pCi/kg
Soil Ing:	2.4E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Americium 243+D

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014993-75-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.3E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	3.8E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.43E+02
Density:	1.4E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	4.6E-03	mg/L	LIVECHEM
Distrib Coef:	6.8E+02	ml/g	BAES_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.7E+06	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.7E+06	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	LIVECHEM

OTHER DATA

Melting Point :994.00° C
Boiling Point :2607.00° C
Formula :Am-243(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Americium 243+D

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014993-75-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	6.8E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.2E-04	pCi/m3
DW:	1.4E-01	pCi/L
FC:	5.3E+00	pCi/kg
Soil Ing:	2.4E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	9.7E-01	mg/kg/day	HEAST
Inhal RfD:	2.9E-02	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	2.0E+03	ppm	RTECS
Dust Inhal LC50:	7.0E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.7E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.4E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.6E-01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.6E-01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.70E+01
Density:	8.0E-04 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.6E+03	Torr	LIVECHEM
Henry's Law:	3.2E-04	atm-m3/mol	LIVECHEM
Water Solub:	5.3E+05	mg/L	LIVECHEM
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	5.3E+05	mg/L	LIVECHEM

OTHER DATA

Melting Point :-77.70° C
Boiling Point :-33.35° C
Formula :N H3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	5.3E+05
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.0E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.5E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.6E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.5E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.3E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.46E+02
Density:	1.7E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :N H4 C6 H2 N3 O7

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Ammonium picrate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000131-74-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Ammonium sulfamate CAS Number: 007773-06-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.9E+03	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.0E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.14E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

OTHER DATA

Melting Point :125.00° C
Boiling Point :
Formula :N H4 N H2 S O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Ammonium sulfamate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007773-06-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Aniline

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000062-53-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	2.9E-04	mg/kg/day	IRIS
Oral Slope:	5.7E-03	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.0E+02	mg/kg	C_EENV
Dermal LD50:	8.2E+02	mg/kg	RTECS
Gas Inhal LC50:	1.8E+02	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.0E+01	µg/L	AQUIRE
Salt Ecol LC50:	2.9E+04	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.31E+01
Density:	1.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.9E-01	Torr	CHEMFATE
Henry's Law:	1.9E-06	atm-m3/mol	CHEMFATE
Water Solub:	3.6E+04	mg/L	CHEMFATE
Distrib Coef:	1.8E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.8E+02		AQUIRE
Salt BCF:			
Log Kow:	9.8E-01		RTI_LOGP
Water Solub:	3.6E+04	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.8E+01	days	THOMAS
Photolysis:	2.6E+00	days	CHEMFATE
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+01	days	THOMAS
Photolysis:	2.6E+00	days	CHEMFATE
Biodeg:		days	
Radio:		days	
Log Kow:	9.8E-01		RTI_LOGP

OTHER DATA

Melting Point :-6.00° C
Boiling Point :184.10° C
Formula :C6H7N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Aniline

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000062-53-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	3.6E+04
Distrib:	1.8E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.0E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.5E-02	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.1E+02	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.5E-02	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.5E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Anthracene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000120-12-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.3E+00	µg/L	AQUIRE
Salt Ecol LC50:	5.0E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:	7.1E-02	days	FATERATE
Biodeg:	4.6E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+00	days	THOMAS
Photolysis:	7.1E-02	days	FATERATE
Biodeg:	4.6E+02	days	FATERATE
Radio:		days	
Log Kow:	4.6E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.78E+02
Density:	1.3E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.7E-06	Torr	CHEMFATE
Henry's Law:	6.5E-05	atm-m3/mol	CHEMFATE
Water Solub:	4.3E-02	mg/L	CHEMFATE
Distrib Coef:	5.9E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	9.2E+03		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	9.2E+03		VER_BCF
Salt BCF:			
Log Kow:	4.6E+00		RTI_LOGP
Water Solub:	4.3E-02	mg/L	CHEMFATE

OTHER DATA

Melting Point :215.00° C
Boiling Point :339.90° C
Formula :C14H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	4.3E-02
Distrib:	5.9E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Antimony

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-36-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.0E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:	6.2E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.22E+02
Density:	6.7E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	2.6E+03	mg/L	WEAST

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	9.0E-01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.0E+00		VER_BCF
Salt BCF:			
Log Kow:			
Water Solub:	2.6E+03	mg/L	

OTHER DATA

Melting Point :630.50° C
Boiling Point :1750.00° C
Formula :Sb

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Antimony

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-36-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.6E+03
Distrib:	4.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	6.0E-03	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	6.0E-03	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Antimony 125(+D) (radionuclide) CAS Number: 014234-35-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.5E-12	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	5.9E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	1.25E+02
Density:	6.7E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	2.6E+03	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.0E+03	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.0E+03	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	9.0E-01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.0E+00		VER_BCF
Salt BCF:			
Log Kow:			
Water Solub:	2.6E+03	mg/L	

OTHER DATA

Melting Point :630.50° C
Boiling Point :1750.00° C
Formula :Sb-109(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Antimony
Other:	Antimony

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Antimony 125(+D) (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014234-35-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.6E+03
Distrib:	4.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	8.1E-01	pCi/m3
DW:	1.3E+01	pCi/L
FC:	5.0E+02	pCi/kg
Soil Ing:	2.2E+05	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Arsenic CAS Number: 007440-38-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.5E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	A		IRIS
Inhal Slope:	1.5E+01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	A		IRIS
Oral ED10:	7.0E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	A		EPA_ED10
Inhal ED10:	7.0E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	A		EPA_ED10
Oral LD50:	1.5E+01	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	3.6E+02	µg/L	WATCRIT
Salt AWQC:	6.9E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.9E+02	µg/L	WATCRIT
Salt AWQC:	3.6E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.7E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.7E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.49E+01
Density:	5.7E+00 g/mL @ 14.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	2.0E+02	ml/g	BAES_KD
Geo. Mean Sol.:	1.2E+03	mg/L	WEAST

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	4.0E+00		VER_BCF
Salt BCF:	3.5E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	3.5E+02		VER_BCF
Salt BCF:	3.5E+02		VER_BCF
Log Kow:			
Water Solub:	1.2E+03	mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :As

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.2E+03
Distrib:	2.0E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.7E-07	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-02	mg/L
Cancer Risk:	5.7E-05	mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.3E-01	mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-02	mg/L
Cancer Risk:	5.7E-05	mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.1E-03	mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	3.6E+02	µg/L
Salt AWQC:	6.9E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.9E+02	µg/L
Salt AWQC:	3.6E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:	2.3E-01	(fibers/ml)^-1	IRIS
Inhal Wt-of-Evid:	A		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.0E+03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :mixture

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	1.0E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	3.7E-05	fibers/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	7.0E+00	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	7.0E+00	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Atrazine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001912-24-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.5E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	2.2E-01	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	C		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+03	mg/kg	ACGIH
Dermal LD50:	7.5E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	5.2E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E+02	µg/L	AQUIRE
Salt Ecol LC50:	9.4E+01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.0E-01	days	CHEMFATE
Volatility:	**	days	
Photolysis:	1.0E+00	days	CHEMFATE
Biodeg:	7.4E+02	days	CHEMFATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.0E-01	days	CHEMFATE
Volatility:	**	days	
Photolysis:	1.0E+00	days	CHEMFATE
Biodeg:	7.4E+02	days	CHEMFATE
Radio:		days	
Log Kow:	2.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.16E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E-07	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:	7.0E+01	mg/L	CHEMFATE
Distrib Coef:	8.1E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	4.9E+01		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	8.3E+01		AQUIRE
Salt BCF:			
Log Kow:	2.7E+00		RTI_LOGP
Water Solub:	7.0E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :173.00° C
Boiling Point :
Formula :C8H14ClN5

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Atrazine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001912-24-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	7.0E+01
Distrib:	8.1E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	10000
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	3.0E-03	mg/L
Cancer Risk:	3.8E-04	mg/L
Non Cancer Risk:	1.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.9E+00	mg/kg
Non Cancer Risk:	2.7E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
OW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	3.0E-03	mg/L
Cancer Risk:	3.8E-04	mg/L
Non Cancer Risk:	1.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.4E-02	mg/kg
Non Cancer Risk:	4.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Azinphos- ethyl

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 002642-71-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.0E+00	mg/kg	RTECS
Dermal LD50:	2.5E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.9E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.1E+00	µg/L	AQUIRE
Salt Ecol LC50:	9.3E-01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.45E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.1E+01	mg/L	CHEMCALC
Distrib Coef:	4.4E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.4E+00		RTI_LOGP
Water Solub:	1.1E+01	mg/L	CHEMCALC

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.4E+00		RTI_LOGP

OTHER DATA

Melting Point :53.00° C
Boiling Point :
Formula :C12 H16 N3 O3 P S2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Azinphos- ethyl

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 002642-71-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.1E+01
Distrib:	4.4E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.0E+00	mg/kg	ACGIH
Dermal LD50:	6.5E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	6.9E-02	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.0E-02	µg/L	WATCRIT
Salt AWQC:	1.0E-02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E-01	µg/L	AQUIRE
Salt Ecol LC50:	3.0E-01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.17E+02
Density:	1.4E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	2.1E+01	mg/L	CHEMFATE
Distrib Coef:	9.4E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	6.1E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	6.1E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.7E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.7E+00		RTI_LOGP
Water Solub:	2.1E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :73.50° C
Boiling Point :
Formula :C10 H12 N3 O3 P S2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Azinphos- methyl

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000086-50-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.1E+01
Distrib:	9.4E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.0E-02	µg/L
Salt AWQC:	1.0E-02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Aziridine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000151-56-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	3.0E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	3.0E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.5E+01	mg/kg	C_EENV
Dermal LD50:	1.4E+01	mg/kg	RTECS
Gas Inhal LC50:	2.5E+01	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.4E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.5E+02	days	FATERATE
Volatility:	2.4E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.5E+02	days	FATERATE
Volatility:	2.4E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	-1.1E+00		CHEMFATE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.31E+01
Density:	8.3E-01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.1E+02	Torr	CHEMFATE
Henry's Law:	1.5E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	1.6E-04	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-1.1E+00		CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-77.90° C
Boiling Point :56.00° C
Formula :C2H5N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Aziridine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000151-56-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.0E+06
Distrib:	1.6E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Barium CAS Number: 007440-39-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	7.0E-02	mg/kg/day	IRIS
Inhal RfD:	1.4E-04	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.0E+03	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.1E+05	µg/L	AQUIRE
Salt Ecol LC50:	5.0E+05	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.37E+02
Density:	3.5E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.1E+01	ml/g	SSG_KD
Geo. Mean Sol.:	3.0E+03	mg/L	WEAST

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	3.0E+03	mg/L	

OTHER DATA

Melting Point :725.00° C
Boiling Point :1640.00° C
Formula :Ba

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Barium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-39-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	3.0E+03
Distrib:	4.1E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	5.2E-04	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E+00	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.6E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	5.5E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E+00	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.6E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	9.5E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Barium cyanide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000542-62-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.89E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.1E+01	ml/g	SSG_KD
Geo. Mean Sol.:	3.0E+03	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	3.0E+03	mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Ba(CN)2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Barium
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	3.0E+03
Distrib:	4.1E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Benz(a)anthracene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000056-55-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	7.3E-01	(mg/kg/day)^-1	LIVECHEM
Oral Wt-of-Evid:	B2		LIVECHEM
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	4.7E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	4.7E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+01	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.28E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.1E-07	Torr	CHEMFATE
Henry's Law:	3.4E-06	atm-m3/mol	CHEMFATE
Water Solub:	9.4E-03	mg/L	CHEMFATE
Distrib Coef:	8.0E+02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+02	days	THOMAS
Photolysis:	1.3E-01	days	FATERATE
Biodeg:	6.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+01	days	THOMAS
Photolysis:	1.3E-01	days	FATERATE
Biodeg:	6.8E+02	days	FATERATE
Radio:		days	
Log Kow:	5.7E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.0E+04		AQUIRE
Salt BCF:			
Log Kow:	5.7E+00		RTI_LOGP
Water Solub:	9.4E-03	mg/L	CHEMFATE

OTHER DATA

Melting Point :84.00° C
Boiling Point :
Formula :C18H12

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benz(a)anthracene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000056-55-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	9.4E-03
Distrib:	8.0E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.8E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.3E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Benzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000071-43-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.9E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	A		IRIS
Inhal Slope:	2.9E-02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	A		IRIS
Oral ED10:	3.7E+00	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	A		EPA_ED10
Inhal ED10:	3.7E+00	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	A		EPA_ED10
Oral LD50:	9.3E+02	mg/kg	RTECS
Dermal LD50:	9.4E+03	mg/kg	RTECS
Gas Inhal LC50:	10.0E+03	ppm	RTECS
Dust Inhal LC50:	1.5E+02	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.3E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	7.8E+01	days	THOMAS
Photolysis:	6.7E+02	days	FATERATE
Biodeg:	1.6E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.4E-01	days	THOMAS
Photolysis:	6.7E+02	days	FATERATE
Biodeg:	1.6E+01	days	FATERATE
Radio:		days	
Log Kow:	2.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.81E+01
Density:	8.8E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.5E+01	Torr	CHEMFATE
Henry's Law:	5.6E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.8E+03	mg/L	FATE
Distrib Coef:	1.2E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	8.4E+03		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	2.3E+02		AQUIRE
Salt BCF:	1.0E+04		AQUIRE
Log Kow:	2.1E+00		RTI_LOGP
Water Solub:	1.8E+03	mg/L	FATE

OTHER DATA

Melting Point :5.50° C
Boiling Point :80.00° C
Formula :C6H6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000071-43-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.8E+03
Distrib:	1.2E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	2.9E-04	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	2.9E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.2E+01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	2.9E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.1E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Benzene carbonyl chloride CAS Number: 000098-88-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.9E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.4E+04	µg/L	AQUIRE
Salt Ecol LC50:	1.8E+05	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.5E+02	days	FATERATE
Volatility:	1.0E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.5E+02	days	FATERATE
Volatility:	1.4E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.41E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.0E-01	Torr	CHEMFATE
Henry's Law:	1.2E-04	atm-m3/mol	CHEMFATE
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :-1.00° C
Boiling Point :197.20° C
Formula :C7H5ClO

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benzene carbonyl chloride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000098-88-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	2.3E+02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	A		IRIS
Inhal Slope:	2.3E+02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	A		IRIS
Oral ED10:	4.5E-04	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	A		EPA_ED10
Inhal ED10:	4.5E-04	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	A		EPA_ED10
Oral LD50:	2.2E+02	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.84E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.0E-09	Torr	CHEMFATE
Henry's Law:	3.9E-11	atm-m3/mol	CHEMFATE
Water Solub:	5.0E+02	mg/L	CHEMFATE
Distrib Coef:	8.6E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	8.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	8.0E+00	days	FATERATE
Radio:		days	
Log Kow:	1.7E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	4.4E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	4.4E+01		VER_BCF
Salt BCF:			
Log Kow:	1.7E+00		RTI_LOGP
Water Solub:	5.0E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :120.00° C
Boiling Point :401.00° C
Formula :C12H12N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Benzidine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000092-87-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0002
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	5.0E+02
Distrib:	8.6E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	3.6E-08	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.7E-07	mg/L
Non Cancer Risk:	1.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.8E-03	mg/kg
Non Cancer Risk:	2.3E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.7E-07	mg/L
Non Cancer Risk:	1.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.4E-05	mg/kg
Non Cancer Risk:	4.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Benzo(a)pyrene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000050-32-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	7.3E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	4.0E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	4.0E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E+00	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.52E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.5E-09	Torr	CHEMFATE
Henry's Law:	1.1E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.6E-03	mg/L	CHEMFATE
Distrib Coef:	2.0E+03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+02	days	THOMAS
Photolysis:	4.6E-02	days	FATERATE
Biodeg:	5.3E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.6E+01	days	THOMAS
Photolysis:	4.6E-02	days	FATERATE
Biodeg:	5.3E+02	days	FATERATE
Radio:		days	
Log Kow:	6.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	8.3E+04		VER_BCF
Salt BCF:	2.4E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	8.3E+04		VER_BCF
Salt BCF:	2.4E+02		VER_BCF
Log Kow:	6.1E+00		RTI_LOGP
Water Solub:	1.6E-03	mg/L	CHEMFATE

OTHER DATA

Melting Point :176.50° C
Boiling Point :
Formula :C20H12

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benzo(a)pyrene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000050-32-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0002
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.6E-03
Distrib:	2.0E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-04	mg/L
Cancer Risk:	1.2E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.8E-02	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-04	mg/L
Cancer Risk:	1.2E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.3E-04	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Benzo(b)fluoranthene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000205-99-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	7.3E-01	(mg/kg/day)^-1	LIVECHEM
Oral Wt-of-Evid:	B2		LIVECHEM
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	4.0E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	4.0E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+02	days	THOMAS
Photolysis:	3.0E+01	days	FATERATE
Biodeg:	6.1E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.9E+00	days	THOMAS
Photolysis:	3.0E+01	days	FATERATE
Biodeg:	6.1E+02	days	FATERATE
Radio:		days	
Log Kow:	6.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.52E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.0E-07	Torr	CHEMFATE
Henry's Law:	1.1E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.5E-03	mg/L	CHEMFATE
Distrib Coef:	2.5E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.2E+00		RTI_LOGP
Water Solub:	1.5E-03	mg/L	CHEMFATE

OTHER DATA

Melting Point :168.00° C
Boiling Point :
Formula :C20 H12

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benzo(b)fluoranthene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000205-99-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.5E-03
Distrib:	2.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.8E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.3E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Benzo(g,h,i)perylene CAS Number: 000191-24-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.76E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.0E-10	Torr	CHEMFATE
Henry's Law:	1.4E-07	atm-m3/mol	CHEMFATE
Water Solub:	2.6E-04	mg/L	CHEMFATE
Distrib Coef:	7.7E+03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	4.6E+02	days	THOMAS
Photolysis:		days	
Biodeg:	6.5E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.9E+02	days	THOMAS
Photolysis:		days	
Biodeg:	6.5E+02	days	FATERATE
Radio:		days	
Log Kow:	6.7E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.8E+04		AQUIRE
Salt BCF:			
Log Kow:	6.7E+00		RTI_LOGP
Water Solub:	2.6E-04	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C22H12

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benzo(g,h,i)perylene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000191-24-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	2.6E-04
Distrib:	7.7E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	7.3E-02	(mg/kg/day)^-1	LIVECHEM
Oral Wt-of-Evid:	B2		LIVECHEM
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.9E+02	days	THOMAS
Photolysis:	2.1E+01	days	FATERATE
Biodeg:	2.1E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	4.8E+01	days	THOMAS
Photolysis:	2.1E+01	days	FATERATE
Biodeg:	2.1E+03	days	FATERATE
Radio:		days	
Log Kow:	6.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.52E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E-09	Torr	CHEMFATE
Henry's Law:	8.3E-07	atm-m3/mol	CHEMFATE
Water Solub:	8.0E-04	mg/L	CHEMFATE
Distrib Coef:	2.5E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.3E+04		AQUIRE
Salt BCF:			
Log Kow:	6.2E+00		RTI_LOGP
Water Solub:	8.0E-04	mg/L	CHEMFATE

OTHER DATA

Melting Point :217.00° C
Boiling Point :480.00° C
Formula :C20H12

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benzo(k)fluoranthene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000207-08-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0002
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	8.0E-04
Distrib:	2.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.8E+00	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.3E-02	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Benzoic acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000065-85-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E+00	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.7E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.8E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	6.3E-01	days	CHEMFATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.9E+01	days	THOMAS
Photolysis:		days	
Biodeg:	6.3E-01	days	CHEMFATE
Radio:		days	
Log Kow:	1.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.22E+02
Density:	1.3E+00 g/mL @ 15.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.2E-03	Torr	FATE
Henry's Law:	1.5E-06	atm-m3/mol	FATE
Water Solub:	3.5E+03	mg/L	LIVECHEM
Distrib Coef:	1.2E-03	ml/g	RTI_ION
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.9E+00		RTI_LOGP
Water Solub:	3.5E+03	mg/L	LIVECHEM

OTHER DATA

Melting Point :122.40° C
Boiling Point :249.20° C
Formula :C7H6O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benzoic acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000065-85-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	3.5E+03
Distrib:	1.2E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+05	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Benzonitrile

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-47-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.0E+02	mg/kg	RTECS
Dermal LD50:	1.2E+03	mg/kg	RTECS
Gas Inhal LC50:	9.5E+02	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.8E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	4.5E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.6E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.03E+02
Density:	1.0E+00 g/mL @ 15.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.7E-01	Torr	CHEMFATE
Henry's Law:	5.7E-07	atm-m3/mol	CHEMEST
Water Solub:	4.8E+02	mg/L	CHEMCALC
Distrib Coef:	8.0E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.6E+00		RTI_LOGP
Water Solub:	4.8E+02	mg/L	CHEMCALC

OTHER DATA

Melting Point :-12.70° C
Boiling Point :191.10° C
Formula :C7H5N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benzonitrile

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-47-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	4.8E+02
Distrib:	8.0E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Benzothiazole, 1,2,- CAS Number: 000095-16-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.7E+02	mg/kg	RTECS
Dermal LD50:	6.3E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	1.4E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.4E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.5E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	4.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.35E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.1E-01	Torr	CHEMCALC
Henry's Law:	6.8E-07	atm-m3/mol	CHEMEST
Water Solub:	3.9E+03	mg/L	CHEMCALC
Distrib Coef:	1.9E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	3.9E+03	mg/L	CHEMCALC

OTHER DATA

Melting Point :2.00° C
Boiling Point :231.00° C
Formula :C7 H5 N S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benzothiazole, 1,2,-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000095-16-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.9E+03
Distrib:	1.9E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Benzyl alcohol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-51-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-01	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+03	mg/kg	RTECS
Dermal LD50:	2.0E+03	mg/kg	RTECS
Gas Inhal LC50:	2.0E+03	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.08E+02
Density:	1.0E+00 g/mL @ 24.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.3E-02	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:	4.0E+04	mg/L	CHEMFATE
Distrib Coef:	2.5E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.1E+00		RTI_LOGP
Water Solub:	4.0E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-15.20° C
Boiling Point :205.30° C
Formula :C7 H8 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	4.0E+04
Distrib:	2.5E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Benzyl chloride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-44-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.7E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	1.5E+00	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.5E+00	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.2E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:	8.0E+01	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.7E+03	µg/L	AQUIRE
Salt Ecol LC50:	3.9E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.0E+00	days	FATE
Volatility:	9.9E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.0E+00	days	FATE
Volatility:	1.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	2.3E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.27E+02
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.3E+00	Torr	CHEMFATE
Henry's Law:	4.2E-04	atm-m3/mol	CHEMFATE
Water Solub:	5.3E+02	mg/L	CHEMFATE
Distrib Coef:	3.6E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.3E+00		RTI_LOGP
Water Solub:	5.3E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :-45.00° C
Boiling Point :179.00° C
Formula :C7 H7 Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Benzyl chloride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-44-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	5.3E+02
Distrib:	3.6E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.0E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	3.8E+00	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.0E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.9E-02	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	4.3E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	8.4E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	1.3E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.3E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.01E+00
Density:	1.8E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	7.9E+02	ml/g	SSG_KD
Geo. Mean Sol.:	3.4E+02	mg/L	WEAST

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.9E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.9E+01		VER_BCF
Salt BCF:			
Log Kow:			
Water Solub:	3.4E+02	mg/L	

OTHER DATA

Melting Point :1278.00° C
Boiling Point :2970.00° C @ 5.00 Torr
Formula :Be

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Beryllium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-41-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	3.4E+02
Distrib:	7.9E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:	1.0E-02	µg/m3
Cancer Risk:	1.0E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	4.0E-03	mg/L
Cancer Risk:	2.0E-05	mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.5E-01	mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	4.0E-03	mg/L
Cancer Risk:	2.0E-05	mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	7.3E-04	mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.9E+03	mg/kg	C_EENV
Dermal LD50:	5.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.6E+02	µg/L	AQUIRE
Salt Ecol LC50:	4.6E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:	1.7E+00	days	CHEMFATE
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+00	days	THOMAS
Photolysis:	1.7E+00	days	CHEMFATE
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	4.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.54E+02
Density:	1.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.6E-03	Torr	CHEMFATE
Henry's Law:	3.0E-04	atm-m3/mol	CHEMFATE
Water Solub:	6.0E+00	mg/L	FATE
Distrib Coef:	1.6E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	4.8E+02		AQUIRE
Salt BCF:			
Log Kow:	4.0E+00		RTI_LOGP
Water Solub:	6.0E+00	mg/L	FATE

OTHER DATA

Melting Point :69.00° C
Boiling Point :256.10° C
Formula :C12 H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Biphenyl, 1,1-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000092-52-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	6.0E+00
Distrib:	1.6E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Bis (2-ethylhexyl) phthalate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000117-81-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.4E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	5.2E+00	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	5.2E+00	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.6E+04	mg/kg	RTECS
Dermal LD50:	1.0E+04	mg/kg	C_EENV
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.2E+02	µg/L	AQUIRE
Salt Ecol LC50:	3.0E+05	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.91E+02
Density:	9.8E-01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.4E-06	Torr	LIVECHEM
Henry's Law:	1.0E-07	atm-m3/mol	CHEMFATE
Water Solub:	3.4E-01	mg/L	CHEMFATE
Distrib Coef:	3.0E+04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.9E+03	days	FATE
Volatility:	6.9E+02	days	THOMAS
Photolysis:	2.0E+02	days	FATERATE
Biodeg:	2.3E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.9E+03	days	FATE
Volatility:	4.8E+02	days	THOMAS
Photolysis:	2.0E+02	days	FATERATE
Biodeg:	2.3E+01	days	FATERATE
Radio:		days	
Log Kow:	7.3E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.1E+04		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.1E+05		AQUIRE
Salt BCF:			
Log Kow:	7.3E+00		RTI_LOGP
Water Solub:	3.4E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :-55.00° C
Boiling Point :384.00° C
Formula :C24 H38 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Bis (2-ethylhexyl) phthalate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000117-81-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.4E-01
Distrib:	3.0E+04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	6.0E-03	mg/L
Cancer Risk:	6.1E-03	mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.6E+01	mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	6.0E-03	mg/L
Cancer Risk:	6.1E-03	mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.3E-01	mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Bis(2-chloroethoxy)methane CAS Number: 000111-91-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.5E+01	mg/kg	RTECS
Dermal LD50:	1.7E+02	mg/kg	RTECS
Gas Inhal LC50:	6.2E+01	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.8E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	3.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.9E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	7.5E-01		CHEMFATE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.73E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E-04	Torr	CHEMFATE
Henry's Law:	1.7E-07	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+05	mg/L	CHEMFATE
Distrib Coef:	1.1E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	7.5E-01		CHEMFATE
Water Solub:	1.2E+05	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C5 H10 Cl2 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.2E+05
Distrib:	1.1E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Bis(2-chloroethyl)ether

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000111-44-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.1E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	1.2E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	7.5E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	7.5E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	7.5E+01	mg/kg	C_EENV
Dermal LD50:	3.0E+02	mg/kg	ACGIH
Gas Inhal LC50:	1.1E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.4E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.43E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.6E+00	Torr	CHEMFATE
Henry's Law:	1.8E-05	atm-m3/mol	CHEMFATE
Water Solub:	1.7E+04	mg/L	CHEMFATE
Distrib Coef:	3.1E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.1E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.1E+01		VER_BCF
Salt BCF:			
Log Kow:	1.2E+00		RTI_LOGP
Water Solub:	1.7E+04	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	8.0E+03	days	FATERATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	8.0E+03	days	FATERATE
Volatility:	2.8E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	1.2E+00		RTI_LOGP

OTHER DATA

Melting Point :-51.90° C
Boiling Point :178.50° C
Formula :C4 H8 Cl2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Bis(2-chloroethyl)ether

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000111-44-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.7E+04
Distrib:	3.1E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	7.4E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.7E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	5.8E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.7E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.9E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Bis(2-chloroisopropyl)ether CAS Number: 039638-32-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	7.0E-02	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	C		HEAST
Inhal Slope:	3.5E-02	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	C		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.71E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.3E+03	mg/L	CHEMCALC
Distrib Coef:	6.9E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.6E+00		RTI_LOGP
Water Solub:	1.3E+03	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C6 H12 Cl2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Bis(2-chloroisopropyl)ether

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 039638-32-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.3E+03
Distrib:	6.9E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	2.4E-04	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-03	mg/L
Non Cancer Risk:	1.5E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	9.1E+00	mg/kg
Non Cancer Risk:	3.1E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-03	mg/L
Non Cancer Risk:	1.5E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.5E-02	mg/kg
Non Cancer Risk:	5.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Bis(chloromethyl)ether CAS Number: 000542-88-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.2E+02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	A		IRIS
Inhal Slope:	2.2E+02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	A		IRIS
Oral ED10:	9.6E-05	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	A		EPA_ED10
Inhal ED10:	9.6E-05	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	A		EPA_ED10
Oral LD50:	2.1E+02	mg/kg	RTECS
Dermal LD50:	2.8E+02	mg/kg	RTECS
Gas Inhal LC50:	5.0E+00	ppm	ACGIH
Dust Inhal LC50:	2.5E-02	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.15E+02
Density:	1.3E+00 g/mL @ 15.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E+01	Torr	CHEMFATE
Henry's Law:	1.2E-04	atm-m3/mol	CHEMEST
Water Solub:	3.8E+04	mg/L	CHEMEST
Distrib Coef:	2.1E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.4E-03	days	FATERATE
Volatility:	9.4E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.4E-03	days	FATERATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.0E+00		CHEMEST

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.0E+00		CHEMEST
Water Solub:	3.8E+04	mg/L	CHEMEST

OTHER DATA

Melting Point :-41.50° C
Boiling Point :106.00° C
Formula :C2 H4 Cl2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Bis(chloromethyl)ether

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000542-88-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	3.8E+04
Distrib:	2.1E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0007
Lake:	0.0007

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0007
Lake:	0.0007
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0007
Lake:	0.0007
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	3.9E-08	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.9E-07	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.9E-03	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.9E-07	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.4E-05	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Boron CAS Number: 007440-42-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	9.0E-02	mg/kg/day	IRIS
Inhal RfD:	5.7E-03	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.08E+01
Density:	2.4E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	3.0E+00	ml/g	BAES_KD
Geo. Mean Sol.:	2.6E+04	mg/L	WEAST

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.6E+04	mg/L	

OTHER DATA

Melting Point :2300.00° C
Boiling Point :2550.00° C
Formula :B

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Boron

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-42-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.6E+04
Distrib:	3.0E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-02	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.0E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.2E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Bromodichloromethane CAS Number: 000075-27-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	6.2E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.3E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.64E+02
Density:	2.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.0E+01	Torr	CHEMFATE
Henry's Law:	1.6E-03	atm-m3/mol	CHEMFATE
Water Solub:	6.7E+03	mg/L	CHEMFATE
Distrib Coef:	1.1E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	5.0E+04	days	CHEMFATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	5.0E+04	days	CHEMFATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.1E+00		RTI_LOGP
Water Solub:	6.7E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-57.00° C
Boiling Point :90.00° C
Formula :C H Br Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Bromodichloromethane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-27-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	6.7E+03
Distrib:	1.1E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:	1.4E-03	mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.0E+01	mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:	1.4E-03	mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.1E-02	mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Bromomethane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000074-83-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.4E-03	mg/kg/day	IRIS
Inhal RfD:	1.4E-03	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.1E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.2E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.0E-01	µg/L	AQUIRE
Salt Ecol LC50:	1.2E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.8E+01	days	FATERATE
Volatility:	8.6E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.8E+01	days	FATERATE
Volatility:	9.2E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.49E+01
Density:	1.7E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.6E+03	Torr	CHEMFATE
Henry's Law:	6.2E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.5E+04	mg/L	CHEMFATE
Distrib Coef:	2.1E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.2E+00		RTI_LOGP
Water Solub:	1.5E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-93.70° C
Boiling Point :3.50° C
Formula :C H3 Br

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Bromomethane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000074-83-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.5E+04
Distrib:	2.1E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	5.2E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	5.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	5.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.9E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.6E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	5.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.49E+02
Density:	1.6E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.5E-03	Torr	CHEMFATE
Henry's Law:	1.2E-04	atm-m3/mol	CHEMFATE
Water Solub:	4.6E+00	mg/L	CHEMFATE
Distrib Coef:	1.6E+02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	5.0E+00		RTI_LOGP
Water Solub:	4.6E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :18.72° C
Boiling Point :126.00° C @ 3.50 Torr
Formula :C12 H9 Br O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Bromophenyl-phenylether, 4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000101-55-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	4.6E+00
Distrib:	1.6E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Bromoxynil

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001689-84-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.3E+01	mg/kg	RTECS
Dermal LD50:	2.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.77E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.0E-08	Torr	CHEMEST
Henry's Law:	7.4E-10	atm-m3/mol	CHEMEST
Water Solub:	1.3E+02	mg/L	LIVECHEM
Distrib Coef:	1.7E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.0E+00		CHEMEST

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.0E+00		CHEMEST
Water Solub:	1.3E+02	mg/L	LIVECHEM

OTHER DATA

Melting Point :190.00° C
Boiling Point :
Formula :C7 H3 Br2 NO

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Bromoxynil

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001689-84-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0002
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.3E+02
Distrib:	1.7E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:	9.8E-01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	2.5E+05	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.41E+01
Density:	6.1E-01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.1E+03	Torr	CHEMFATE
Henry's Law:	7.4E-02	atm-m3/mol	CHEMFATE
Water Solub:	7.4E+02	mg/L	CHEMFATE
Distrib Coef:	8.9E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.6E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.6E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	7.4E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :-108.90° C
Boiling Point :-4.40° C
Formula :C4 H6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Butadiene, 1,3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-99-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	7.4E+02
Distrib:	8.9E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	8.7E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Butanol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000071-36-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.9E+02	mg/kg	RTECS
Dermal LD50:	3.4E+03	mg/kg	RTECS
Gas Inhal LC50:	8.0E+03	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+06	µg/L	AQUIRE
Salt Ecol LC50:	2.1E+06	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.41E+01
Density:	8.1E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.5E+00	Torr	FATE
Henry's Law:	8.8E-06	atm-m3/mol	CHEMFATE
Water Solub:	7.4E+04	mg/L	LIVECHEM
Distrib Coef:	1.4E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	7.8E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	8.5E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	8.5E-01		RTI_LOGP
Water Solub:	7.4E+04	mg/L	LIVECHEM

OTHER DATA

Melting Point :-89.80° C
Boiling Point :117.70° C
Formula :C4 H10 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	7.4E+04
Distrib:	1.4E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Butylbenzyl phthalate CAS Number: 000085-68-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.3E+03	mg/kg	RTECS
Dermal LD50:	1.0E+04	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.1E+01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.12E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.3E-06	Torr	CHEMFATE
Henry's Law:	1.3E-06	atm-m3/mol	CHEMFATE
Water Solub:	2.7E+00	mg/L	CHEMFATE
Distrib Coef:	1.1E+02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.9E+02	days	THOMAS
Photolysis:	3.7E+04	days	FATERATE
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.6E+01	days	THOMAS
Photolysis:	3.7E+04	days	FATERATE
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	4.8E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.6E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	6.6E+02		VER_BCF
Salt BCF:			
Log Kow:	4.8E+00		RTI_LOGP
Water Solub:	2.7E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C19 H20 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Butylbenzyl phthalate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000085-68-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	2.7E+00
Distrib:	1.1E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Butyric acid, 4-(2,4-dichlorophenoxy) CAS Number: 000094-82-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.0E+02	mg/kg	RTECS
Dermal LD50:	8.0E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.0E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	3.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.49E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.5E-06	Torr	CHEMFATE
Henry's Law:	2.2E-08	atm-m3/mol	CHEMFATE
Water Solub:	5.3E+01	mg/L	CHEMFATE
Distrib Coef:	5.9E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.5E+00		RTI_LOGP
Water Solub:	5.3E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :118.00° C
Boiling Point :
Formula :C10 H10 Cl2 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Butyric acid, 4-(2,4-dichlorophenoxy)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000094-82-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	5.3E+01
Distrib:	5.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	6.3E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UNTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
OW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cadmium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-43-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:	6.3E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B1		IRIS
Oral ED10:	1.7E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B1		EPA_ED10
Inhal ED10:	1.7E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B1		EPA_ED10
Oral LD50:	2.3E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.5E-02	mg/L	RTECS
ACUTE			
Fresh AWQC:	3.9E+00	µg/L	WATCRIT
Salt AWQC:	4.3E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.1E+00	µg/L	WATCRIT
Salt AWQC:	9.3E+00	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.0E+00	µg/L	AQUIRE
Salt Ecol LC50:	1.1E+01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.12E+02
Density:	8.7E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	7.5E+01	ml/g	SSG_KD
Geo. Mean Sol.:	7.0E+00	mg/L	WEAST; CLEVER

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.8E+03		VER_BCF
Salt BCF:	2.7E+03		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	7.4E+03		VER_BCF
Salt BCF:	3.5E+03		VER_BCF
Log Kow:			
Water Solub:	7.0E+00	mg/L	

OTHER DATA

Melting Point :321.00° C
Boiling Point :765.00° C
Formula :Cd

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cadmium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-43-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	7.0E+00
Distrib:	7.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.4E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	3.9E+00	µg/L
Salt AWQC:	4.3E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.1E+00	µg/L
Salt AWQC:	9.3E+00	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cadmium 109 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014109-32-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	8.0E-12	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.9E-11	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	4.6E+02	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	4.6E+02	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	1.09E+02
Density:	8.7E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	7.5E+01	ml/g	SSG_KD
Geo. Mean Sol.:	7.0E+00	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.8E+03		VER_BCF
Salt BCF:	2.7E+03		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	7.4E+03		VER_BCF
Salt BCF:	3.5E+03		VER_BCF
Log Kow:			
Water Solub:	7.0E+00	mg/L	

OTHER DATA

Melting Point :321.00° C
Boiling Point :765.00° C
Formula :Cd-109

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Cadmium
Other:	Cadmium

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cadmium 109 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014109-32-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	7.0E+00
Distrib:	7.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	2.6E-01	pCi/m3
DW:	5.9E+00	pCi/L
FC:	2.2E+02	pCi/kg
Soil Ing:	9.9E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Calcium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-70-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.01E+01
Density:	1.5E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.0E+00	ml/g	BAES_KD
Geo. Mean Sol.:	8.3E+02	mg/L	LIDE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	8.3E+02	mg/L	

OTHER DATA

Melting Point :850.00° C
Boiling Point :1440.00° C
Formula :Ca

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Calcium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-70-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	8.3E+02
Distrib:	4.0E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Captan

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000133-06-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.3E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	3.5E-03	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.4E+03	mg/kg	ACGIH
Dermal LD50:	5.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	4.5E+00	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.4E+01	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	7.5E-02	days	FATERATE
Volatility:	1.6E+02	days	THOMAS
Photolysis:		days	
Biodeg:	6.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	7.5E-02	days	FATERATE
Volatility:	7.6E+00	days	THOMAS
Photolysis:		days	
Biodeg:	6.0E+01	days	FATERATE
Radio:		days	
Log Kow:	2.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.01E+02
Density:	1.7E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.0E-05	Torr	CHEMFATE
Henry's Law:	7.2E-06	atm-m3/mol	CHEMFATE
Water Solub:	3.3E+00	mg/L	CHEMFATE
Distrib Coef:	5.1E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.5E+00		RTI_LOGP
Water Solub:	3.3E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :172.50° C
Boiling Point :
Formula :C9 H8 Cl3 NO2 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Captan

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000133-06-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	3.3E+00
Distrib:	5.1E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	100
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.4E-02	mg/L
Non Cancer Risk:	4.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.8E+02	mg/kg
Non Cancer Risk:	1.0E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.4E-02	mg/L
Non Cancer Risk:	4.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	9.0E-01	mg/kg
Non Cancer Risk:	1.8E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Carbaryl

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000063-25-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+02	mg/kg	ACGIH
Dermal LD50:	4.0E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.9E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.1E+00	µg/L	AQUIRE
Salt Ecol LC50:	3.2E+00	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.0E+01	days	FATE
Volatility:	**	days	
Photolysis:	8.3E+00	days	FATERATE
Biodeg:	3.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.0E+01	days	FATE
Volatility:	**	days	
Photolysis:	8.3E+00	days	FATERATE
Biodeg:	3.0E+01	days	FATERATE
Radio:		days	
Log Kow:	2.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.01E+02
Density:	1.2E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E-06	Torr	CHEMFATE
Henry's Law:	3.5E-09	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+02	mg/L	CHEMFATE
Distrib Coef:	4.2E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.0E+01		AQUIRE
Salt BCF:			
Log Kow:	2.4E+00		RTI_LOGP
Water Solub:	1.0E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :145.00° C
Boiling Point :
Formula :C12 H11 N O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Carbaryl

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000063-25-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.0E+02
Distrib:	4.2E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Carbazole

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000086-74-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.0E-02	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.67E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.2E-07	Torr	CHEMCALC
Henry's Law:	1.5E-08	atm-m3/mol	LIVECHEM
Water Solub:	7.5E+00	mg/L	CHEMCALC
Distrib Coef:	6.8E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.2E+02		AQUIRE
Salt BCF:			
Log Kow:	3.6E+00		RTI_LOGP
Water Solub:	7.5E+00	mg/L	CHEMCALC

OTHER DATA

Melting Point :246.20° C
Boiling Point :354.70° C
Formula :C12 H9 N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Carbazole

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000086-74-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	7.5E+00
Distrib:	6.8E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.3E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	3.2E+01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.3E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.6E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Carbofuran

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001563-66-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.0E+00	mg/kg	ACGIH
Dermal LD50:	3.4E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	5.3E-02	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.3E-01	µg/L	AQUIRE
Salt Ecol LC50:	2.7E+00	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	6.3E+01	days	FATE
Volatility:	1.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	6.3E+01	days	FATE
Volatility:	1.8E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.6E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.21E+02
Density:	1.2E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.2E-01	Torr	CHEMEST
Henry's Law:	9.2E-05	atm-m3/mol	CHEMEST
Water Solub:	3.2E+02	mg/L	CHEMFATE
Distrib Coef:	7.7E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.0E+01		VER_BCF
Salt BCF:			
Log Kow:	1.6E+00		RTI_LOGP
Water Solub:	3.2E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :151.00° C
Boiling Point :
Formula :C12 H15 N O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Carbofuran

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001563-66-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.2E+02
Distrib:	7.7E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	4.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	4.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Carbon disulfide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-15-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	IRIS
Inhal RfD:	2.0E-01	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	2.0E+03	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.1E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	5.7E+04	days	FATE
Volatility:	7.7E+01	days	THOMAS
Photolysis:	1.1E+01	days	CHEMFATE
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	5.7E+04	days	FATE
Volatility:	8.3E-01	days	THOMAS
Photolysis:	1.1E+01	days	CHEMFATE
Biodeg:		days	
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.61E+01
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.6E+02	Torr	CHEMFATE
Henry's Law:	3.0E-02	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+03	mg/L	CHEMFATE
Distrib Coef:	9.1E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	1.2E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-115.00° C
Boiling Point :46.00° C
Formula :C S2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Carbon disulfide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-15-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.2E+03
Distrib:	9.1E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	7.3E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Carbon tetrachloride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000056-23-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	7.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.3E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	5.3E-02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	1.7E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.7E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.4E+03	mg/kg	C_EENV
Dermal LD50:	5.1E+03	mg/kg	RTECS
Gas Inhal LC50:	9.5E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.0E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.5E+05	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.54E+02
Density:	1.6E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.2E+02	Torr	CHEMFATE
Henry's Law:	3.0E-02	atm-m3/mol	CHEMFATE
Water Solub:	7.9E+02	mg/L	LIVECHEM
Distrib Coef:	3.5E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.0E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	3.0E+01		VER_BCF
Salt BCF:			
Log Kow:	2.7E+00		RTI_LOGP
Water Solub:	7.9E+02	mg/L	LIVECHEM

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.5E+04	days	FATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.5E+04	days	FATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
Log Kow:	2.7E+00		RTI_LOGP

OTHER DATA

Melting Point :-23.00° C
Boiling Point :76.80° C
Formula :C Cl4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Carbon tetrachloride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000056-23-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	7.9E+02
Distrib:	3.5E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.6E-04	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	6.6E-04	mg/L
Non Cancer Risk:	2.6E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.9E+00	mg/kg
Non Cancer Risk:	5.5E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	6.6E-04	mg/L
Non Cancer Risk:	2.6E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.4E-02	mg/kg
Non Cancer Risk:	9.5E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Carbophenothion

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000786-19-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.8E+00	mg/kg	RTECS
Dermal LD50:	2.7E+01	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	9.0E-03	µg/L	AQUIRE
Salt Ecol LC50:	2.3E+00	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.43E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	3.6E-02	mg/L	CHEMCALC
Distrib Coef:	7.3E+02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	5.7E+00		RTI_LOGP
Water Solub:	3.6E-02	mg/L	CHEMCALC

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	5.7E+00		RTI_LOGP

OTHER DATA

Melting Point :
Boiling Point :82.00° C @ 0.01 Torr
Formula :C11 H16 Cl O2 P S3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Carbophenothion

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000786-19-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.6E-02
Distrib:	7.3E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cesium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-46-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	Yes
Molecular Weight:	1.33E+02
Density:	1.9E+03 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.0E+03	ml/g	BAES_KD
Geo. Mean Sol.:	2.5E+04	mg/L	LIDE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.5E+04	mg/L	

OTHER DATA

Melting Point :28.50° C
Boiling Point :705.00° C
Formula :Cs

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

HRS Factor Values are assigned to radioactive isotopes but not to radioactive elements. Data for a radioactive element is used to derive factor values for that element's isotopes.

Date: 07/02/96
Chemical: Cesium 134 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013967-70-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	4.7E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	2.9E-11	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	1.34E+02
Density:	1.9E+03 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.0E+03	ml/g	BAES_KD
Geo. Mean Sol.:	2.5E+04	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	7.5E+02	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	7.5E+02	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.5E+04	mg/L	

OTHER DATA

Melting Point :28.50° C
Boiling Point :705.00° C
Formula :Cs-134

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Cesium
Other:	Cesium

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cesium 134 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013967-70-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.5E+04
Distrib:	1.0E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.6E-01	pCi/m3
DW:	1.0E+00	pCi/L
FC:	3.7E+01	pCi/kg
Soil Ing:	1.7E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cesium 135 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 015726-30-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	4.5E-12	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	2.7E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	8.4E+08	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	8.4E+08	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	1.35E+02
Density:	1.9E+03 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.0E+03	ml/g	BAES_KD
Geo. Mean Sol.:	2.5E+04	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.5E+04	mg/L	

OTHER DATA

Melting Point :28.50° C
Boiling Point :705.00° C
Formula :Cs-135

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Cesium
Other:	Cesium

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cesium 135 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 015726-30-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.5E+04
Distrib:	1.0E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.8E+00	pCi/m3
DW:	1.1E+01	pCi/L
FC:	3.9E+02	pCi/kg
Soil Ing:	1.8E+05	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cesium 137(+D) (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010045-97-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.2E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.9E-11	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	1.37E+02
Density:	1.9E+03 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.0E+03	ml/g	BAES_KD
Geo. Mean Sol.:	2.5E+04	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.1E+04	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.1E+04	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.5E+04	mg/L	

OTHER DATA

Melting Point :28.50° C
Boiling Point :705.00° C
Formula :Cs-137(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Cesium
Other:	Cesium

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cesium 137(+D) (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010045-97-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.5E+04
Distrib:	1.0E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	2.5E-01	pCi/m3
DW:	1.5E+00	pCi/L
FC:	5.6E+01	pCi/kg
Soil Ing:	2.5E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.1E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.6E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	4.8E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	9.9E-01		CHEMFATE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.47E+02
Density:	1.5E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.0E+01	Torr	CHEMFATE
Henry's Law:	6.4E-07	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	LIVECHEM
Distrib Coef:	1.9E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	9.9E-01		CHEMFATE
Water Solub:	1.0E+06	mg/L	LIVECHEM

OTHER DATA

Melting Point :-57.50° C
Boiling Point :97.80° C
Formula :C2 H Cl3 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chloral

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-87-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.0E+06
Distrib:	1.9E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chlordane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000057-74-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.3E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	1.3E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	6.6E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	6.6E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	5.0E+01	mg/kg	C_EENV
Dermal LD50:	5.9E+02	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.0E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:	2.4E+00	µg/L	WATCRIT
Salt AWQC:	9.0E-02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	4.3E-03	µg/L	WATCRIT
Salt AWQC:	4.0E-03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.4E+01	µg/L	AQUIRE
Salt Ecol LC50:	5.5E+00	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	7.2E+07	days	FATERATE
Volatility:	1.8E+02	days	THOMAS
Photolysis:	3.8E+00	days	CHEMFATE
Biodeg:	1.4E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	7.2E+07	days	FATERATE
Volatility:	2.9E+00	days	THOMAS
Photolysis:	3.8E+00	days	CHEMFATE
Biodeg:	1.4E+03	days	FATERATE
Radio:		days	
Log Kow:	6.3E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.10E+02
Density:	1.6E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.8E-06	Torr	CHEMFATE
Henry's Law:	4.9E-05	atm-m3/mol	CHEMFATE
Water Solub:	5.6E-02	mg/L	CHEMFATE
Distrib Coef:	2.4E+02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	3.8E+04		VER_BCF
Salt BCF:	1.6E+04		VER_BCF
Log Kow:	6.3E+00		RTI_LOGP
Water Solub:	5.6E-02	mg/L	CHEMFATE

OTHER DATA

Melting Point :106.00° C
Boiling Point :175.00° C @ 1.00 Torr
Formula :C10 H6 Cl8

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chlordane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000057-74-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	5.6E-02
Distrib:	2.4E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	6.6E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-03	mg/L
Cancer Risk:	6.6E-05	mg/L
Non Cancer Risk:	2.2E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.9E-01	mg/kg
Non Cancer Risk:	4.7E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-03	mg/L
Cancer Risk:	6.6E-05	mg/L
Non Cancer Risk:	2.2E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	3.0E-01	ppm
Cancer Risk:	2.4E-03	mg/kg
Non Cancer Risk:	8.1E-02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	2.4E+00	µg/L
Salt AWQC:	9.0E-02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	4.3E-03	µg/L
Salt AWQC:	4.0E-03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chlordane, alpha-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 005103-71-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.3E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.1E+00	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	4.4E-02	mg/L	CHEMCALC
Distrib Coef:	1.4E+02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	6.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.2E+02		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	9.9E+02		AQUIRE
Salt BCF:			
Log Kow:	6.0E+00		RTI_LOGP
Water Solub:	4.4E-02	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Chlordane, alpha-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 005103-71-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	4.4E-02
Distrib:	1.4E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chlordane, gamma-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 005566-34-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.8E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.1E+01	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.9E-02	mg/L	CHEMCALC
Distrib Coef:	2.8E+02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	7.3E+07	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	7.3E+07	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	6.4E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	3.2E+02		AQUIRE
Salt BCF:			
Log Kow:	6.4E+00		RTI_LOGP
Water Solub:	1.9E-02	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Chlordane, gamma-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 005566-34-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.9E-02
Distrib:	2.8E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chlorine cyanide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000506-77-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.3E+03	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:	4.8E+01	ppm	ACGIH
Dust Inhal LC50:	3.0E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:	4.0E-03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.9E+01	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	6.15E+01
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.2E+03	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :-6.50° C
Boiling Point :13.00° C
Formula :C Cl N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:	4.0E-03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E+00	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.0E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.3E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	7.5E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.43E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.2E-03	Torr	CHEMEST
Henry's Law:	4.0E-07	atm-m3/mol	CHEMEST
Water Solub:	3.8E+03	mg/L	LIVECHEM
Distrib Coef:	2.2E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.1E+00		RTI_LOGP
Water Solub:	3.8E+03	mg/L	LIVECHEM

OTHER DATA

Melting Point :67.00° C
Boiling Point :223.00° C
Formula :C7 H7 Cl O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chloro-3-methylphenol, 4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000059-50-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	3.8E+03
Distrib:	2.2E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+05	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chloroaniline, p-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-47-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+02	mg/kg	RTECS
Dermal LD50:	3.6E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E+01	µg/L	AQUIRE
Salt Ecol LC50:	1.5E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.9E+02	days	THOMAS
Photolysis:	3.0E-01	days	CHEMFATE
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.5E+01	days	THOMAS
Photolysis:	3.0E-01	days	CHEMFATE
Biodeg:		days	
Radio:		days	
Log Kow:	1.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.28E+02
Density:	1.4E+00 g/mL @ 19.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.2E-02	Torr	CHEMFATE
Henry's Law:	3.3E-07	atm-m3/mol	CHEMEST
Water Solub:	5.3E+03	mg/L	CHEMFATE
Distrib Coef:	1.3E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.1E+00		AQUIRE
Salt BCF:			
Log Kow:	1.9E+00		RTI_LOGP
Water Solub:	5.3E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :72.50° C
Boiling Point :232.00° C
Formula :C6 H6 Cl N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chloroaniline, p-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-47-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	5.3E+03
Distrib:	1.3E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0700
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chlorobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-90-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:	5.7E-03	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.3E+03	mg/kg	C_EENV
Dermal LD50:	2.2E+03	mg/kg	RTECS
Gas Inhal LC50:	9.0E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.4E+02	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	9.3E+01	days	THOMAS
Photolysis:	4.9E-02	days	CHEMFATE
Biodeg:	1.5E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.0E+00	days	THOMAS
Photolysis:	4.9E-02	days	CHEMFATE
Biodeg:	1.5E+02	days	FATERATE
Radio:		days	
Log Kow:	2.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.13E+02
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.2E+01	Torr	CHEMFATE
Henry's Law:	3.7E-03	atm-m3/mol	CHEMFATE
Water Solub:	4.7E+02	mg/L	CHEMFATE
Distrib Coef:	4.4E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.9E+00		RTI_LOGP
Water Solub:	4.7E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :-45.20° C
Boiling Point :131.70° C
Formula :C6 H5 Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chlorobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-90-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	4.7E+02
Distrib:	4.4E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-02	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chlorobenzilate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000510-15-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	2.7E-01	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	2.7E-01	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	-
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.0E+02	mg/kg	C_EENV
Dermal LD50:	1.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.0E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	3.5E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	3.5E+01	days	FATERATE
Radio:		days	
Log Kow:	4.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.25E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E-06	Torr	CHEMCALC
Henry's Law:		atm-m3/mol	
Water Solub:	1.1E+01	mg/L	CHEMCALC
Distrib Coef:	4.0E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.4E+00		RTI_LOGP
Water Solub:	1.1E+01	mg/L	CHEMCALC

OTHER DATA

Melting Point :37.00° C
Boiling Point :157.00° C @ 0.07 Torr
Formula :C16 H14 Cl2 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Chlorobenzilate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000510-15-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.1E+01
Distrib:	4.0E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	3.2E-05	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.2E-04	mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.4E+00	mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.2E-04	mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.2E-02	mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chloroform

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000067-66-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	6.1E-03	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	8.1E-02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	5.1E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	5.1E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	3.6E+01	mg/kg	RTECS
Dermal LD50:	2.0E+04	mg/kg	RTECS
Gas Inhal LC50:	2.0E+04	ppm	RTECS
Dust Inhal LC50:	4.8E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.3E+04	µg/L	AQUIRE
Salt Ecol LC50:	8.2E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	6.8E+05	days	FATE
Volatility:	9.6E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	6.8E+05	days	FATE
Volatility:	1.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	1.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.19E+02
Density:	1.5E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E+02	Torr	CHEMFATE
Henry's Law:	3.7E-03	atm-m3/mol	CHEMFATE
Water Solub:	7.9E+03	mg/L	LIVECHEM
Distrib Coef:	8.0E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.0E+00		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	6.0E+00		VER_BCF
Salt BCF:			
Log Kow:	1.9E+00		RTI_LOGP
Water Solub:	7.9E+03	mg/L	LIVECHEM

OTHER DATA

Melting Point :-63.60° C
Boiling Point :61.10° C
Formula :C H Cl3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chloroform

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000067-66-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	7.9E+03
Distrib:	8.0E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.1E-04	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:	1.4E-02	mg/L
Non Cancer Risk:	3.7E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.0E+02	mg/kg
Non Cancer Risk:	7.8E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:	1.4E-02	mg/L
Non Cancer Risk:	3.7E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.2E-01	mg/kg
Non Cancer Risk:	1.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chloromethane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000074-87-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.3E-02	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	C		HEAST
Inhal Slope:	6.3E-03	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	C		HEAST
Oral ED10:	2.0E+01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	2.0E+01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	2.2E+03	ppm	RTECS
Dust Inhal LC50:	1.3E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.5E+05	µg/L	AQUIRE
Salt Ecol LC50:	2.7E+05	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.05E+01
Density:	9.1E-01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.3E+03	Torr	CHEMFATE
Henry's Law:	8.8E-03	atm-m3/mol	CHEMFATE
Water Solub:	5.3E+03	mg/L	CHEMFATE
Distrib Coef:	1.3E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.9E+02	days	FATERATE
Volatility:	1.6E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.9E+02	days	FATERATE
Volatility:	1.6E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	9.1E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	9.1E-01		RTI_LOGP
Water Solub:	5.3E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-97.70° C
Boiling Point :-24.00° C
Formula :C H3 Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chloromethane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000074-87-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	5.3E+03
Distrib:	1.3E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.4E-03	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	6.6E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.9E+01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	6.6E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.4E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chloromethyl methyl ether

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000107-30-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	5.5E+01	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.4E-03	days	FATERATE
Volatility:	7.9E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.4E-03	days	FATERATE
Volatility:	9.3E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	4.3E-01		CHEMEST

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.05E+01
Density:	1.1E+00 g/mL @ 10.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.2E+02	Torr	CHEMFATE
Henry's Law:	2.7E-04	atm-m3/mol	CHEMEST
Water Solub:	8.3E+04	mg/L	CHEMEST
Distrib Coef:	5.2E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.3E-01		CHEMEST
Water Solub:	8.3E+04	mg/L	CHEMEST

OTHER DATA

Melting Point :-103.50° C
Boiling Point :59.50° C
Formula :C2 H5 Cl O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chloromethyl methyl ether

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000107-30-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	8.3E+04
Distrib:	5.2E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0007
Lake:	0.0007

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0007
Lake:	0.0007
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0007
Lake:	0.0007
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chloromethyloxirane, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-89-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-03	mg/kg/day	HEAST
Inhal RfD:	2.9E-04	mg/kg/day	IRIS
Oral Slope:	9.9E-03	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	4.2E-03	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	9.0E+01	mg/kg	C_EENV
Dermal LD50:	5.2E+02	mg/kg	RTECS
Gas Inhal LC50:	2.5E+02	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.1E+04	µg/L	AQUIRE
Salt Ecol LC50:	1.8E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	7.7E+01	days	FATE
Volatility:	8.5E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	7.7E+01	days	FATE
Volatility:	1.7E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	2.5E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.25E+01
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.6E+01	Torr	CHEMFATE
Henry's Law:	3.0E-05	atm-m3/mol	CHEMFATE
Water Solub:	6.6E+04	mg/L	CHEMFATE
Distrib Coef:	3.5E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.5E-01		RTI_LOGP
Water Solub:	6.6E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-25.60° C
Boiling Point :117.90° C
Formula :C3 H5 Cl O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chloromethyloxirane, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-89-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.6E+04
Distrib:	3.5E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	2.0E-03	mg/m3
Non Cancer Risk:	1.0E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	8.6E-03	mg/L
Non Cancer Risk:	7.3E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	6.5E+01	mg/kg
Non Cancer Risk:	1.6E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	8.6E-03	mg/L
Non Cancer Risk:	7.3E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.2E-01	mg/kg
Non Cancer Risk:	2.7E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chloronaphthalene, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000091-58-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.9E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:	2.3E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.2E+03	days	FATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.2E+03	days	FATE
Volatility:	1.3E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	4.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.63E+02
Density:	1.1E+00 g/mL @ 71.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.0E-03	Torr	CHEMFATE
Henry's Law:	3.1E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+01	mg/L	CHEMFATE
Distrib Coef:	2.3E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.1E+00		RTI_LOGP
Water Solub:	1.2E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :61.00° C
Boiling Point :256.00° C
Formula :C10 H7 Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chloronaphthalene, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000091-58-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.2E+01
Distrib:	2.3E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	6.3E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.5E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.6E+03	µg/L	AQUIRE
Salt Ecol LC50:	5.3E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.29E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.3E+00	Torr	CHEMFATE
Henry's Law:	3.9E-04	atm-m3/mol	CHEMFATE
Water Solub:	2.2E+04	mg/L	LIVECHEM
Distrib Coef:	7.8E-01	ml/g	RTI_ION
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.1E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.1E+02		VER_BCF
Salt BCF:			
Log Kow:	2.2E+00		RTI_LOGP
Water Solub:	2.2E+04	mg/L	LIVECHEM

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	10.0E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.2E+00		RTI_LOGP

OTHER DATA

Melting Point :9.80° C
Boiling Point :174.90° C
Formula :C6 H5 Cl O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chlorophenol, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000095-57-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.2E+04
Distrib:	7.8E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chlorophenyl-phenyl ether, 4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007005-72-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.3E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	5.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.05E+02
Density:	1.2E+00 g/mL @ 15.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.4E+00	mg/L	CHEMCALC
Distrib Coef:	1.5E+02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	5.0E+00		RTI_LOGP
Water Solub:	1.4E+00	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :284.50° C
Formula :C12 H9 Cl O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Chlorophenyl-phenyl ether, 4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007005-72-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	1.4E+00
Distrib:	1.5E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chloroprene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000126-99-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	2.0E-03	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.7E+02	ppm	ACGIH
Dust Inhal LC50:	1.3E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.85E+01
Density:	9.6E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.1E+02	Torr	CHEMCALC
Henry's Law:		atm-m3/mol	
Water Solub:	1.7E+03	mg/L	CHEMCALC
Distrib Coef:	2.2E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.1E+00		RTI_LOGP
Water Solub:	1.7E+03	mg/L	CHEMCALC

OTHER DATA

Melting Point :-130.00° C
Boiling Point :59.40° C
Formula :C4 H5 Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Chloroprene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000126-99-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.7E+03
Distrib:	2.2E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	7.3E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chlorpyrifos

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 002921-88-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.2E+01	mg/kg	ACGIH
Dermal LD50:	2.0E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.0E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:	8.3E-02	µg/L	WATCRIT
Salt AWQC:	1.1E-02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	4.1E-02	µg/L	WATCRIT
Salt AWQC:	5.6E-03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.1E-01	µg/L	AQUIRE
Salt Ecol LC50:	3.5E-02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.51E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.1E+00	mg/L	CHEMFATE
Distrib Coef:	3.5E+01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	9.4E+02		AQUIRE
Salt BCF:	5.1E+03		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.7E+03		VER_BCF
Salt BCF:	5.1E+03		VER_BCF
Log Kow:	5.3E+00		RTI_LOGP
Water Solub:	1.1E+00	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.6E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.6E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	5.3E+00		RTI_LOGP

OTHER DATA

Melting Point :42.00° C
Boiling Point :
Formula :C9 H11 Cl3 N O3 P S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Chlorpyrifos

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 002921-88-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.1E+00
Distrib:	3.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	8.3E-02	µg/L
Salt AWQC:	1.1E-02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	4.1E-02	µg/L
Salt AWQC:	5.6E-03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chromium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-47-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:	4.2E+01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	A		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:	2.6E-03	mg/kg/day	SPHEM
Inhal ED10 Wgt:	A		SPHEM
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	1.6E+01	µg/L	WATCRIT
Salt AWQC:	1.1E+03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.1E+01	µg/L	WATCRIT
Salt AWQC:	5.0E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.2E+01	µg/L	AQUIRE
Salt Ecol LC50:	2.0E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.20E+01
Density:	7.1E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.9E+01	ml/g	SSG_KD
Geo. Mean Sol.:	7.9E+04	mg/L	WEAST

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.0E+00		VER_BCF
Salt BCF:	1.9E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.0E+00		VER_BCF
Salt BCF:	1.9E+02		VER_BCF
Log Kow:			
Water Solub:	7.9E+04	mg/L	

OTHER DATA

Melting Point :1900.00° C
Boiling Point :2642.00° C
Formula :Cr

CLASS INFORMATION

Class	Parent Substance
Toxicity:	Chromium(VI)
GW Mob:	Chromium(VI)
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Chromium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-47-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	7.9E+04
Distrib:	1.9E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	2.0E-07	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	1.6E+01	µg/L
Salt AWQC:	1.1E+03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.1E+01	µg/L
Salt AWQC:	5.0E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chromium(III)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 016065-83-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E+00	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	1.7E+03	µg/L	WATCRIT
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	2.1E+02	µg/L	WATCRIT
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.2E+01	µg/L	AQUIRE
Salt Ecol LC50:	2.0E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.20E+01
Density:	7.1E+00 g/mL @ 7.10° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.8E+06	ml/g	SSG_KD
Geo. Mean Sol.:	7.9E+04	mg/L	WEAST

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	1.2E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.5E+02		VER_BCF
Log Kow:			
Water Solub:	7.9E+04	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

OTHER DATA

Melting Point :1900.00° C
Boiling Point :2642.00° C @ 2642.00 Torr
Formula :Cr(3+)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Chromium(III)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 016065-83-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	7.9E+04
Distrib:	1.8E+06

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	1.7E+03	µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	2.1E+02	µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chromium(VI)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 018540-29-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:	4.2E+01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	A		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:	2.6E-03	mg/kg/day	SPHEM
Inhal ED10 Wgt:	A		SPHEM
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	1.6E+01	µg/L	WATCRIT
Salt AWQC:	1.1E+03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.1E+01	µg/L	WATCRIT
Salt AWQC:	5.0E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.2E+01	µg/L	AQUIRE
Salt Ecol LC50:	2.0E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.20E+01
Density:	7.1E+00 g/mL @ 7.10° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.9E+01	ml/g	SSG_KD
Geo. Mean Sol.:	7.9E+04	mg/L	WEAST

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.0E+00		VER_BCF
Salt BCF:	1.9E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.0E+00		VER_BCF
Salt BCF:	1.9E+02		VER_BCF
Log Kow:			
Water Solub:	7.9E+04	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

OTHER DATA

Melting Point :1900.00° C
Boiling Point :2642.00° C @ 2642.00 Torr
Formula :Cr(6+)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Chromium(VI)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 018540-29-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	7.9E+04
Distrib:	1.9E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	2.0E-07	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	1.6E+01	µg/L
Salt AWQC:	1.1E+03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.1E+01	µg/L
Salt AWQC:	5.0E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Chrysene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000218-01-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	7.3E-03	(mg/kg/day)^-1	LIVECHEM
Oral Wt-of-Evid:	B2		LIVECHEM
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:	1.0E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.28E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.2E-09	Torr	CHEMFATE
Henry's Law:	9.5E-05	atm-m3/mol	CHEMFATE
Water Solub:	1.6E-03	mg/L	LIVECHEM
Distrib Coef:	8.0E+02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+02	days	THOMAS
Photolysis:	5.4E-01	days	FATERATE
Biodeg:	1.0E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+00	days	THOMAS
Photolysis:	5.4E-01	days	FATERATE
Biodeg:	1.0E+03	days	FATERATE
Radio:		days	
Log Kow:	5.7E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	3.7E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	6.1E+03		AQUIRE
Salt BCF:	3.7E+02		VER_BCF
Log Kow:	5.7E+00		RTI_LOGP
Water Solub:	1.6E-03	mg/L	LIVECHEM

OTHER DATA

Melting Point :258.20° C
Boiling Point :448.00° C
Formula :C18 H12

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Chrysene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000218-01-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0002
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.6E-03
Distrib:	8.0E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-02	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.8E+01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-02	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.3E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cobalt

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-48-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.2E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.89E+01
Density:	8.9E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	2.9E+03	mg/L	WEAST

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	4.0E+03		AQUIRE
Log Kow:			
Water Solub:	2.9E+03	mg/L	

OTHER DATA

Melting Point :1493.00° C
Boiling Point :3100.00° C
Formula :Co

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cobalt

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-48-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	2.9E+03
Distrib:	4.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cobalt 57 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013981-50-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	9.7E-13	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	2.9E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.7E+02	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.7E+02	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	5.69E+01
Density:	8.9E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	2.9E+03	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	4.0E+03		AQUIRE
Log Kow:			
Water Solub:	2.9E+03	mg/L	

OTHER DATA

Melting Point :1493.00° C
Boiling Point :3100.00° C
Formula :Co-57

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Cobalt
Other:	Cobalt

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cobalt 57 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013981-50-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.9E+03
Distrib:	4.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.7E+00	pCi/m3
DW:	4.9E+01	pCi/L
FC:	1.8E+03	pCi/kg
Soil Ing:	8.2E+05	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cobalt 60 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010198-40-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.9E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	6.9E-11	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.9E+03	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.9E+03	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	5.99E+01
Density:	8.9E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	2.9E+03	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	4.0E+03		AQUIRE
Log Kow:			
Water Solub:	2.9E+03	mg/L	

OTHER DATA

Melting Point :1493.00° C
Boiling Point :3100.00° C
Formula :Co-60

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Cobalt
Other:	Cobalt

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cobalt 60 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010198-40-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.9E+03
Distrib:	4.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	6.9E-02	pCi/m3
DW:	2.5E+00	pCi/L
FC:	9.3E+01	pCi/kg
Soil Ing:	4.2E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Copper

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-50-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	1.8E+01	µg/L	WATCRIT
Salt AWQC:	2.9E+00	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.2E+01	µg/L	WATCRIT
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E-01	µg/L	AQUIRE
Salt Ecol LC50:	7.5E+00	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	6.35E+01
Density:	8.9E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.3E+02	ml/g	SSG_KD
Geo. Mean Sol.:	9.0E+02	mg/L	WEAST; LANGE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.3E+04		VER_BCF
Salt BCF:	2.8E+04		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	2.3E+04		VER_BCF
Salt BCF:	2.8E+04		VER_BCF
Log Kow:			
Water Solub:	9.0E+02	mg/L	

OTHER DATA

Melting Point :1083.00° C
Boiling Point :2595.00° C
Formula :Cu

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Copper

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-50-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	9.0E+02
Distrib:	4.3E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.3E+00	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.3E+00	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	1.8E+01	µg/L
Salt AWQC:	2.9E+00	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.2E+01	µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Copper cyanide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000544-92-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.96E+01
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.3E+02	ml/g	SSG_KD
Geo. Mean Sol.:	9.0E+02	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	9.0E+02	mg/L	

OTHER DATA

Melting Point :474.00° C
Boiling Point :
Formula :C Cu N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Copper
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Copper cyanide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000544-92-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	9.0E+02
Distrib:	4.3E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.3E+01	mg/kg	RTECS
Dermal LD50:	5.0E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.0E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.4E-02	µg/L	AQUIRE
Salt Ecol LC50:	2.8E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	4.1E+00		CHEMEST

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.63E+02
Density:	1.5E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.5E+00	mg/L	CHEMFATE
Distrib Coef:	2.3E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.1E+00		CHEMEST
Water Solub:	1.5E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :93.00° C
Boiling Point :
Formula :C14 H16 Cl O5 P S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Coumaphos

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000056-72-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.5E+00
Distrib:	2.3E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Creosote

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 008001-58-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.3E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :mixture

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Creosote

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 008001-58-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cresol, m-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-39-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.4E+02	mg/kg	C_EENV
Dermal LD50:	2.1E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.9E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.9E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.0E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.9E+01	days	FATERATE
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.08E+02
Density:	1.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E-01	Torr	CHEMFATE
Henry's Law:	8.7E-07	atm-m3/mol	CHEMFATE
Water Solub:	2.3E+04	mg/L	CHEMFATE
Distrib Coef:	1.7E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	2.3E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :11.80° C
Boiling Point :202.20° C
Formula :C7 H8 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Cresol, m-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-39-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	2.3E+04
Distrib:	1.7E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cresol, o-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000095-48-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.2E+02	mg/kg	C_EENV
Dermal LD50:	8.9E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.08E+02
Density:	1.1E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E-01	Torr	CHEMFATE
Henry's Law:	1.2E-06	atm-m3/mol	CHEMFATE
Water Solub:	2.6E+04	mg/L	CHEMFATE
Distrib Coef:	1.8E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.2E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	2.6E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :29.80° C
Boiling Point :191.00° C
Formula :C7 H8 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Cresol, o-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000095-48-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	2.6E+04
Distrib:	1.8E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cresol, p-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-44-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.1E+02	mg/kg	C_EENV
Dermal LD50:	3.0E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.08E+02
Density:	1.0E+00 g/mL @ 40.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.1E-01	Torr	CHEMFATE
Henry's Law:	7.9E-07	atm-m3/mol	CHEMFATE
Water Solub:	2.2E+04	mg/L	CHEMFATE
Distrib Coef:	1.7E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+02	days	THOMAS
Photolysis:	1.2E+01	days	FATERATE
Biodeg:	6.7E-01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.3E+01	days	THOMAS
Photolysis:	1.2E+01	days	FATERATE
Biodeg:	6.7E-01	days	FATERATE
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	2.2E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :35.50° C
Boiling Point :201.90° C
Formula :C7 H8 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Cresol, p-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-44-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.2E+04
Distrib:	1.7E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cumene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000098-82-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-02	mg/kg/day	IRIS
Inhal RfD:	2.6E-03	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.4E+03	mg/kg	C_EENV
Dermal LD50:	1.2E+04	mg/kg	RTECS
Gas Inhal LC50:	2.0E+03	ppm	ACGIH
Dust Inhal LC50:	1.0E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.7E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.6E+05	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.20E+02
Density:	8.6E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.5E+00	Torr	CHEMFATE
Henry's Law:	1.2E+00	atm-m3/mol	CHEMFATE
Water Solub:	6.1E+01	mg/L	CHEMFATE
Distrib Coef:	6.6E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.6E+01	days	THOMAS
Photolysis:		days	
Biodeg:	8.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:	8.0E+00	days	FATERATE
Radio:		days	
Log Kow:	3.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.6E+00		RTI_LOGP
Water Solub:	6.1E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :-96.00° C
Boiling Point :152.40° C
Formula :C9 H12

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Cumene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000098-82-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	6.1E+01
Distrib:	6.6E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	9.4E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cyanazine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 021725-46-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-03	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:	8.4E-01	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	C		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.4E+02	mg/kg	RTECS
Dermal LD50:	1.2E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.5E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.0E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.41E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.2E-07	Torr	CHEMEST
Henry's Law:	1.0E-10	atm-m3/mol	CHEMEST
Water Solub:	1.7E+02	mg/L	LIVECHEM
Distrib Coef:	1.3E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.2E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.2E+04		AQUIRE
Salt BCF:			
Log Kow:	2.2E+00		RTI_LOGP
Water Solub:	1.7E+02	mg/L	LIVECHEM

OTHER DATA

Melting Point :168.00° C
Boiling Point :
Formula :C9 H13 Cl N6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cyanazine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 021725-46-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.7E+02
Distrib:	1.3E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.0E-04	mg/L
Non Cancer Risk:	7.3E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	7.6E-01	mg/kg
Non Cancer Risk:	1.6E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.0E-04	mg/L
Non Cancer Risk:	7.3E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.8E-03	mg/kg
Non Cancer Risk:	2.7E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cyanide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000057-12-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.0E+00	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.0E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	2.2E+01	µg/L	WATCRIT
Salt AWQC:	1.0E+00	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	5.2E+00	µg/L	WATCRIT
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.3E+02	µg/L	AQUIRE
Salt Ecol LC50:	1.1E+02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :CN(-)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cyanide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000057-12-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	2.2E+01	µg/L
Salt AWQC:	1.0E+00	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	5.2E+00	µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cyanogen

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000460-19-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.0E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.20E+01
Density:	9.5E-01 g/mL @ -21.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.3E+03	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:	8.5E+03	mg/L	CHEMCALC
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	8.5E+03	mg/L	CHEMCALC

OTHER DATA

Melting Point :-27.90° C
Boiling Point :-21.10° C
Formula :C2 N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cyanogen

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000460-19-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	8.5E+03
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cyanogen bromide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000506-68-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	9.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	5.0E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.4E+02	µg/L	AQUIRE
Salt Ecol LC50:	4.7E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.06E+02
Density:	2.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.8E+02	Torr	CHEMCALC
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :52.00° C
Boiling Point :61.50° C
Formula :C Br N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cyanogen bromide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000506-68-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.0E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.2E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cyclohexane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000110-82-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.1E+02	mg/kg	RTECS
Dermal LD50:	1.8E+05	mg/kg	RTECS
Gas Inhal LC50:	2.7E+04	ppm	ACGIH
Dust Inhal LC50:	9.0E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.5E+03	µg/L	AQUIRE
Salt Ecol LC50:	2.4E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	8.1E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.7E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.7E-01	days	THOMAS
Photolysis:		days	
Biodeg:	1.7E+02	days	FATERATE
Radio:		days	
Log Kow:	3.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.42E+01
Density:	7.8E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.7E+01	Torr	CHEMFATE
Henry's Law:	2.0E-01	atm-m3/mol	CHEMFATE
Water Solub:	5.5E+01	mg/L	CHEMFATE
Distrib Coef:	1.3E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.4E+00		RTI_LOGP
Water Solub:	5.5E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :6.60° C
Boiling Point :80.70° C
Formula :C6 H12

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Cyclohexane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000110-82-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	5.5E+01
Distrib:	1.3E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cyclohexanone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-94-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E+00	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.5E+03	mg/kg	ACGIH
Dermal LD50:	9.5E+02	mg/kg	ACGIH
Gas Inhal LC50:	4.0E+03	ppm	ACGIH
Dust Inhal LC50:	1.9E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.3E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.0E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.8E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	8.1E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.81E+01
Density:	9.5E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.3E+00	Torr	CHEMFATE
Henry's Law:	8.4E-06	atm-m3/mol	CHEMEST
Water Solub:	5.0E+03	mg/L	CHEMFATE
Distrib Coef:	1.3E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	8.1E-01		RTI_LOGP
Water Solub:	5.0E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-31.00° C
Boiling Point :155.40° C
Formula :C6 H10 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Cyclohexanone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-94-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	5.0E+03
Distrib:	1.3E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+05	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Cyclotrimethylenetrinitriamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000121-82-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.1E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.0E+02	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.6E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.22E+02
Density:	1.8E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	6.0E+01	mg/L	FATE
Distrib Coef:	1.4E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	8.7E-01		RTI_LOGP
Water Solub:	6.0E+01	mg/L	FATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	8.7E-01		RTI_LOGP

OTHER DATA

Melting Point :205.50° C
Boiling Point :
Formula :C3 H6 N6 O6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Cyclotrimethylenetrinitriamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000121-82-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	6.0E+01
Distrib:	1.4E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.7E-04	mg/L
Non Cancer Risk:	1.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	5.8E+00	mg/kg
Non Cancer Risk:	2.3E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.7E-04	mg/L
Non Cancer Risk:	1.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.9E-02	mg/kg
Non Cancer Risk:	4.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: DDD

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000072-54-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.4E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	7.7E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	7.7E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.1E+02	mg/kg	RTECS
Dermal LD50:	1.2E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.0E-01	µg/L	AQUIRE
Salt Ecol LC50:	2.5E+00	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	9.5E+03	days	FATE
Volatility:	1.7E+02	days	THOMAS
Photolysis:		days	
Biodeg:	5.8E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	9.5E+03	days	FATE
Volatility:	1.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:	5.8E+03	days	FATERATE
Radio:		days	
Log Kow:	6.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.20E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.7E-07	Torr	CHEMFATE
Henry's Law:	4.0E-06	atm-m3/mol	CHEMFATE
Water Solub:	9.0E-02	mg/L	CHEMFATE
Distrib Coef:	2.0E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.1E+00		RTI_LOGP
Water Solub:	9.0E-02	mg/L	CHEMFATE

OTHER DATA

Melting Point :109.50° C
Boiling Point :
Formula :C14 H10 Cl4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: DDD

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000072-54-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	9.0E-02
Distrib:	2.0E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.6E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.7E+00	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.6E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	5.0E+00	ppm
Cancer Risk:	1.3E-02	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: DDE

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000072-55-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.4E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	2.6E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	2.6E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.0E+03	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.2E+01	µg/L	AQUIRE
Salt Ecol LC50:	2.5E+00	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.6E+02	days	THOMAS
Photolysis:	6.1E+00	days	FATERATE
Biodeg:	5.8E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.8E+00	days	THOMAS
Photolysis:	6.1E+00	days	FATERATE
Biodeg:	5.8E+03	days	FATERATE
Radio:		days	
Log Kow:	6.8E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.18E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.0E-06	Torr	CHEMFATE
Henry's Law:	2.1E-05	atm-m3/mol	CHEMFATE
Water Solub:	1.2E-01	mg/L	LIVECHEM
Distrib Coef:	8.8E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.8E+05		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.8E+05		VER_BCF
Salt BCF:			
Log Kow:	6.8E+00		RTI_LOGP
Water Solub:	1.2E-01	mg/L	LIVECHEM

OTHER DATA

Melting Point :89.00° C
Boiling Point :
Formula :C14 H8 Cl4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: DDE

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000072-55-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.2E-01
Distrib:	8.8E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.5E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.9E+00	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.5E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	5.0E+00	ppm
Cancer Risk:	9.3E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: DDT

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000050-29-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	3.4E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	3.4E-01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	1.8E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.8E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.5E+02	mg/kg	ACGIH
Dermal LD50:	2.5E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	1.1E+00	µg/L	WATCRIT
Salt AWQC:	1.3E-01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.0E-03	µg/L	WATCRIT
Salt AWQC:	1.0E-03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.8E-01	µg/L	AQUIRE
Salt Ecol LC50:	2.6E-01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.7E+03	days	FATE
Volatility:	1.7E+02	days	THOMAS
Photolysis:		days	
Biodeg:	5.7E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.7E+03	days	FATE
Volatility:	7.5E+00	days	THOMAS
Photolysis:		days	
Biodeg:	5.7E+03	days	FATERATE
Radio:		days	
Log Kow:	6.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.54E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.6E-07	Torr	CHEMFATE
Henry's Law:	8.1E-06	atm-m3/mol	CHEMFATE
Water Solub:	2.5E-02	mg/L	CHEMFATE
Distrib Coef:	5.3E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	4.4E+06		VER_BCF
Salt BCF:	7.6E+04		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	4.4E+06		VER_BCF
Salt BCF:	7.6E+04		VER_BCF
Log Kow:	6.5E+00		RTI_LOGP
Water Solub:	2.5E-02	mg/L	CHEMFATE

OTHER DATA

Melting Point :108.50° C
Boiling Point :260.00° C
Formula :C14 H9 Cl5

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: DDT

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000050-29-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.5E-02
Distrib:	5.3E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	2.5E-05	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.5E-04	mg/L
Non Cancer Risk:	1.8E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.9E+00	mg/kg
Non Cancer Risk:	3.9E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.5E-04	mg/L
Non Cancer Risk:	1.8E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	5.0E+00	ppm
Cancer Risk:	9.3E-03	mg/kg
Non Cancer Risk:	6.8E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	1.1E+00	µg/L
Salt AWQC:	1.3E-01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.0E-03	µg/L
Salt AWQC:	1.0E-03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: DEF

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000078-48-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.5E+02	mg/kg	RTECS
Dermal LD50:	1.7E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.8E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+02	µg/L	AQUIRE
Salt Ecol LC50:	2.8E+01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.9E+00	days	CHEMFATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.9E+00	days	CHEMFATE
Radio:		days	
Log Kow:	3.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.15E+02
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.6E+01	mg/L	CHEMCALC
Distrib Coef:	3.0E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.1E+03		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	3.1E+03		AQUIRE
Salt BCF:			
Log Kow:	3.2E+00		RTI_LOGP
Water Solub:	1.6E+01	mg/L	CHEMCALC

OTHER DATA

Melting Point :-25.00° C
Boiling Point :150.00° C @ 0.30 Torr
Formula :C12 H27 O P S3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: DEF

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000078-48-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.6E+01
Distrib:	3.0E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.0700
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	0.0700
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E-02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Di-n-butyl phthalate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000084-74-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.0E+03	mg/kg	C_EENV
Dermal LD50:	2.0E+04	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.3E+02	µg/L	AQUIRE
Salt Ecol LC50:	2.0E+01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.0E+04	days	FATE
Volatility:	**	days	
Photolysis:	1.4E+02	days	FATERATE
Biodeg:	2.3E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.0E+04	days	FATE
Volatility:	**	days	
Photolysis:	1.4E+02	days	FATERATE
Biodeg:	2.3E+01	days	FATERATE
Radio:		days	
Log Kow:	4.6E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.78E+02
Density:	1.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.3E-05	Torr	CHEMFATE
Henry's Law:	9.4E-10	atm-m3/mol	CHEMFATE
Water Solub:	1.1E+01	mg/L	CHEMFATE
Distrib Coef:	6.8E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	5.0E+03		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	6.7E+03		AQUIRE
Salt BCF:			
Log Kow:	4.6E+00		RTI_LOGP
Water Solub:	1.1E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :-35.00° C
Boiling Point :340.00° C
Formula :C16 H22 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Di-n-butyl phthalate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000084-74-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.1E+01
Distrib:	6.8E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Di-n-octyl phthalate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000117-84-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:	5.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.91E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.6E-06	Torr	CHEMFATE
Henry's Law:	6.7E-05	atm-m3/mol	CHEMFATE
Water Solub:	2.0E-02	mg/L	CHEMFATE
Distrib Coef:	1.7E+05	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.9E+03	days	FATE
Volatility:	1.7E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.9E+03	days	FATE
Volatility:	2.6E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	8.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.1E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	8.9E+02		VER_BCF
Salt BCF:			
Log Kow:	8.1E+00		RTI_LOGP
Water Solub:	2.0E-02	mg/L	CHEMFATE

OTHER DATA

Melting Point :25.00° C
Boiling Point :
Formula :C24 H38 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Di-n-octyl phthalate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000117-84-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.0E-02
Distrib:	1.7E+05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
OW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	6.1E-02	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	2.3E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	2.3E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:	4.0E+02	mg/kg	RTECS
Dermal LD50:	2.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.2E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.70E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.4E-03	Torr	CHEMCALC
Henry's Law:		atm-m3/mol	
Water Solub:	4.0E+01	mg/L	CHEMCALC
Distrib Coef:	5.2E+01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.4E+03	days	FATERATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	9.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.4E+03	days	FATERATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	9.0E+01	days	FATERATE
Radio:		days	
Log Kow:	4.5E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.5E+00		RTI_LOGP
Water Solub:	4.0E+01	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :150.00° C @ 9.00 Torr
Formula :C10 H17 Cl2 N O S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	4.0E+01
Distrib:	5.2E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.4E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.0E+01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.4E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.2E-02	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Diazinon

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000333-41-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	9.0E-04	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.6E+01	mg/kg	ACGIH
Dermal LD50:	1.8E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	1.6E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.0E-02	µg/L	AQUIRE
Salt Ecol LC50:	8.5E+00	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.04E+02
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.2E+01	Torr	CHEMEST
Henry's Law:		atm-m3/mol	
Water Solub:	4.0E+01	mg/L	CHEMFATE
Distrib Coef:	1.1E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.7E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.7E+02		VER_BCF
Salt BCF:	2.1E+02		VER_BCF
Log Kow:	3.4E+00		RTI_LOGP
Water Solub:	4.0E+01	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	8.4E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	8.4E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.4E+00		RTI_LOGP

OTHER DATA

Melting Point :
Boiling Point :87.50° C @ 0.05 Torr
Formula :C12 H21 N2 O3 P S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Diazinon

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000333-41-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	4.0E+01
Distrib:	1.1E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

* BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.0E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.2E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dibenz(a,h)anthracene CAS Number: 000053-70-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	7.3E+00	(mg/kg/day)^-1	LIVECHEM
Oral Wt-of-Evid:	B2		LIVECHEM
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	2.8E-03	mg/kg/day	SPHEM
Oral ED10 Wgt:	B2		SPHEM
Inhal ED10:	2.8E-03	mg/kg/day	SPHEM
Inhal ED10 Wgt:	B2		SPHEM
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	3.3E+01	days	FATERATE
Biodeg:	9.4E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	3.3E+01	days	FATERATE
Biodeg:	9.4E+02	days	FATERATE
Radio:		days	
Log Kow:	6.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.78E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.0E-10	Torr	CHEMFATE
Henry's Law:	1.5E-08	atm-m3/mol	CHEMFATE
Water Solub:	2.5E-03	mg/L	FATE
Distrib Coef:	7.5E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	5.0E+04		AQUIRE
Salt BCF:			
Log Kow:	6.7E+00		RTI_LOGP
Water Solub:	2.5E-03	mg/L	FATE

OTHER DATA

Melting Point :269.50° C
Boiling Point :
Formula :C22 H14

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Dibenz(a,h)anthracene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000053-70-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.5E-03
Distrib:	7.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.8E-02	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.3E-04	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dibenzofuran

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000132-64-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.3E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.8E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.7E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	4.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.68E+02
Density:	1.1E+00 g/mL @ 99.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.8E-04	Torr	CHEMFATE
Henry's Law:	1.3E-05	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+01	mg/L	FATE
Distrib Coef:	2.7E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.2E+00		RTI_LOGP
Water Solub:	1.0E+01	mg/L	FATE

OTHER DATA

Melting Point :86.50° C
Boiling Point :287.00° C
Formula :C12 H8 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dibenzofuran

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: D00132-64-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	1.0E+01
Distrib:	2.7E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dibromo-3-chloropropane, 1,2- CAS Number: 000096-12-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	5.7E-05	mg/kg/day	IRIS
Oral Slope:	1.4E+00	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	2.4E-03	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:	8.1E-04	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	8.1E-04	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.5E+02	mg/kg	RTECS
Dermal LD50:	1.4E+03	mg/kg	RTECS
Gas Inhal LC50:	1.0E+02	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.36E+02
Density:	2.1E+00 g/mL @ 14.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.8E-01	Torr	CHEMFATE
Henry's Law:	1.5E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+03	mg/L	CHEMFATE
Distrib Coef:	1.7E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.6E+04	days	FATE
Volatility:	1.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.6E+04	days	FATE
Volatility:	1.7E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.3E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.3E+00		RTI_LOGP
Water Solub:	1.2E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :196.00° C
Formula :C3 H5 Br2 Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.2E+03
Distrib:	1.7E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	3.6E-03	mg/m3
Non Cancer Risk:	2.1E-04	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-04	mg/L
Cancer Risk:	6.1E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.6E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-04	mg/L
Cancer Risk:	6.1E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.3E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	8.4E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.7E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.08E+02
Density:	2.5E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.9E+00	Torr	CHEMFATE
Henry's Law:	7.8E-04	atm-m3/mol	CHEMFATE
Water Solub:	2.6E+03	mg/L	CHEMFATE
Distrib Coef:	1.3E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.0E+05	days	FATERATE
Volatility:	1.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.0E+05	days	FATERATE
Volatility:	1.4E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.2E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.2E+00		RTI_LOGP
Water Solub:	2.6E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-20.00° C
Boiling Point :120.00° C
Formula :C H Br2 Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.6E+03
Distrib:	1.3E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	6.0E-02	mg/L
Cancer Risk:	1.0E-03	mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	7.6E+00	mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	6.0E-02	mg/L
Cancer Risk:	1.0E-03	mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.8E-02	mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dibromoethane, 1,2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-93-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	5.7E-05	mg/kg/day	HEAST
Oral Slope:	8.5E+01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	7.7E-01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	2.6E-03	mg/kg/day	SPHEM
Oral ED10 Wgt:	B2		SPHEM
Inhal ED10:	2.6E-03	mg/kg/day	SPHEM
Inhal ED10 Wgt:	B2		SPHEM
Oral LD50:	5.5E+01	mg/kg	C_EENV
Dermal LD50:	3.0E+02	mg/kg	RTECS
Gas Inhal LC50:	2.0E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.88E+02
Density:	2.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.3E+01	Torr	CHEMFATE
Henry's Law:	7.4E-04	atm-m3/mol	CHEMFATE
Water Solub:	4.2E+03	mg/L	CHEMFATE
Distrib Coef:	8.5E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	8.0E+02	days	FATERATE
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	8.0E+02	days	FATERATE
Volatility:	1.3E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	4.2E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :9.90° C
Boiling Point :131.60° C
Formula :C2 H4 Br2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dibromoethane, 1,2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-93-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	4.2E+03
Distrib:	8.5E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.1E-05	mg/m3
Non Cancer Risk:	2.1E-04	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-05	mg/L
Cancer Risk:	1.0E-06	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	7.5E-03	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-05	mg/L
Cancer Risk:	1.0E-06	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.7E-05	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+03	mg/kg	RTECS
Dermal LD50:	1.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.9E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.21E+02
Density:	1.6E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.7E-05	Torr	CHEMEST
Henry's Law:	7.9E-09	atm-m3/mol	CHEMEST
Water Solub:	4.5E+03	mg/L	CHEMFATE
Distrib Coef:	4.1E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.4E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.4E+00		RTI_LOGP
Water Solub:	4.5E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :115.00° C
Boiling Point :
Formula :C8 H6 Cl2 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	4.5E+03
Distrib:	4.1E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichlorobenzene, 1,2- CAS Number: 000095-50-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	9.0E-02	mg/kg/day	IRIS
Inhal RfD:	5.7E-02	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.0E+03	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:	9.8E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E+03	µg/L	AQUIRE
Salt Ecol LC50:	7.3E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	3.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.47E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E+00	Torr	CHEMFATE
Henry's Law:	1.9E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.6E+02	mg/L	FATE
Distrib Coef:	1.2E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	8.9E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	8.9E+01		VER_BCF
Salt BCF:			
Log Kow:	3.4E+00		RTI_LOGP
Water Solub:	1.6E+02	mg/L	FATE

OTHER DATA

Melting Point :-16.70° C
Boiling Point :180.00° C
Formula :C6 H4 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.6E+02
Distrib:	1.2E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	6.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.0E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	6.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.2E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dichlorobenzene, 1,3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000541-73-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.7E+03	µg/L	AQUIRE
Salt Ecol LC50:	7.8E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	3.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.47E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.2E+00	Torr	CHEMFATE
Henry's Law:	3.1E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.3E+02	mg/L	FATE
Distrib Coef:	1.5E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.6E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	6.6E+01		VER_BCF
Salt BCF:			
Log Kow:	3.5E+00		RTI_LOGP
Water Solub:	1.3E+02	mg/L	FATE

OTHER DATA

Melting Point :-24.80° C
Boiling Point :173.00° C
Formula :C6 H4 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	1.3E+02
Distrib:	1.5E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	6.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	6.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dichlorobenzene, 1,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-46-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	2.3E-01	mg/kg/day	IRIS
Oral Slope:	2.4E-02	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	C		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+02	mg/kg	C_EENV
Dermal LD50:	5.0E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.1E+03	µg/L	AQUIRE
Salt Ecol LC50:	7.2E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.47E+02
Density:	1.2E+00 g/mL @ 55.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.0E+00	Torr	CHEMFATE
Henry's Law:	2.4E-03	atm-m3/mol	CHEMFATE
Water Solub:	7.4E+01	mg/L	FATE
Distrib Coef:	1.2E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.0E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	6.0E+01		VER_BCF
Salt BCF:			
Log Kow:	3.4E+00		RTI_LOGP
Water Solub:	7.4E+01	mg/L	FATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	3.4E+00		RTI_LOGP

OTHER DATA

Melting Point :52.70° C
Boiling Point :174.00° C
Formula :C6 H4 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dichlorobenzene, 1,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-46-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	7.4E+01
Distrib:	1.2E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	8.3E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	7.5E-02	mg/L
Cancer Risk:	3.6E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.7E+01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	7.5E-02	mg/L
Cancer Risk:	3.6E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.3E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichlorobenzidine, 3,3- CAS Number: 000091-94-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	4.5E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	1.3E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.3E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	5.0E+02	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	3.1E-03	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	3.1E-03	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	3.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.53E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.7E-08	Torr	CHEMFATE
Henry's Law:	4.0E-09	atm-m3/mol	CHEMFATE
Water Solub:	3.1E+00	mg/L	FATE
Distrib Coef:	1.5E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	5.1E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	5.1E+02		VER_BCF
Salt BCF:			
Log Kow:	3.5E+00		RTI_LOGP
Water Solub:	3.1E+00	mg/L	FATE

OTHER DATA

Melting Point :132.50° C
Boiling Point :
Formula :C12 H10 Cl2 N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Dichlorobenzidine, 3,3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000091-94-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0002
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.1E+00
Distrib:	1.5E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0700
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.9E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.4E+00	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.9E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	7.0E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dichlorodifluoromethane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-71-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-01	mg/kg/day	IRIS
Inhal RfD:	5.7E-02	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	6.0E+05	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.21E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.8E+03	Torr	CHEMFATE
Henry's Law:	3.4E-01	atm-m3/mol	CHEMFATE
Water Solub:	2.8E+02	mg/L	CHEMFATE
Distrib Coef:	1.2E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.7E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.7E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.7E+02	days	FATERATE
Radio:		days	
Log Kow:	2.2E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.2E+00		RTI_LOGP
Water Solub:	2.8E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :-158.00° C
Boiling Point :-29.80° C
Formula :C Cl2 F2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dichlorodifluoromethane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-71-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	2.8E+02
Distrib:	1.2E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichloroethane, 1,1- CAS Number: 000075-34-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	LIVECHEM
Inhal RfD:	1.0E-01	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.0E+03	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.3E+04	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.90E+01
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.3E+02	Torr	CHEMFATE
Henry's Law:	5.6E-03	atm-m3/mol	CHEMFATE
Water Solub:	5.1E+03	mg/L	CHEMFATE
Distrib Coef:	6.3E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.2E+04	days	FATE
Volatility:	8.7E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.5E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.2E+04	days	FATE
Volatility:	9.4E-01	days	THOMAS
Photolysis:		days	
Biodeg:	1.5E+02	days	FATERATE
Radio:		days	
Log Kow:	1.8E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.8E+00		RTI_LOGP
Water Solub:	5.1E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-96.90° C
Boiling Point :57.40° C
Formula :C2 H4 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dichloroethane, 1,1-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-34-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	5.1E+03
Distrib:	6.3E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

* BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	3.7E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichloroethane, 1,2- CAS Number: 000107-06-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	9.1E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	9.1E-02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	7.7E+00	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	7.7E+00	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	4.9E+02	mg/kg	C_EENV
Dermal LD50:	2.8E+03	mg/kg	RTECS
Gas Inhal LC50:	1.0E+03	ppm	RTECS
Dust Inhal LC50:	5.0E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+05	µg/L	AQUIRE
Salt Ecol LC50:	1.3E+05	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	7.2E+01	days	FATE
Volatility:	8.7E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	7.2E+01	days	FATE
Volatility:	9.7E-01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	1.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.90E+01
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.9E+01	Torr	CHEMFATE
Henry's Law:	9.8E-04	atm-m3/mol	CHEMFATE
Water Solub:	8.5E+03	mg/L	LIVECHEM
Distrib Coef:	3.5E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.0E+00		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.0E+00		VER_BCF
Salt BCF:			
Log Kow:	1.5E+00		RTI_LOGP
Water Solub:	8.5E+03	mg/L	LIVECHEM

OTHER DATA

Melting Point :-35.50° C
Boiling Point :83.50° C
Formula :C2 H4 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dichloroethane, 1,2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000107-06-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	8.5E+03
Distrib:	3.5E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	9.4E-05	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	9.4E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	7.0E+00	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	9.4E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.5E-02	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichloroethylene, 1,1- CAS Number: 000075-35-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	9.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	6.0E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:	1.8E-01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	C		IRIS
Oral ED10:	1.9E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	1.9E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:	1.9E+02	mg/kg	C_EENV
Dermal LD50:	2.4E+03	mg/kg	RTECS
Gas Inhal LC50:	6.4E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+04	µg/L	AQUIRE
Salt Ecol LC50:	2.5E+05	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.69E+01
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.0E+02	Torr	CHEMFATE
Henry's Law:	2.6E-02	atm-m3/mol	CHEMFATE
Water Solub:	2.3E+03	mg/L	CHEMFATE
Distrib Coef:	1.2E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.4E+10	days	FATE
Volatility:	8.7E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.4E+10	days	FATE
Volatility:	9.3E-01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.1E+00		RTI_LOGP
Water Solub:	2.3E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-122.50° C
Boiling Point :31.60° C
Formula :C2 H2 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.3E+03
Distrib:	1.2E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	4.9E-05	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	7.0E-03	mg/L
Cancer Risk:	1.4E-04	mg/L
Non Cancer Risk:	3.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.1E+00	mg/kg
Non Cancer Risk:	7.0E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	7.0E-03	mg/L
Cancer Risk:	1.4E-04	mg/L
Non Cancer Risk:	3.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.3E-03	mg/kg
Non Cancer Risk:	1.2E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichloroethylene, cis-1,2- CAS Number: 000156-59-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-02	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.3E+03	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.6E+04	ppm	ACGIH
Dust Inhal LC50:	2.0E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.69E+01
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E+02	Torr	CHEMFATE
Henry's Law:	4.1E-03	atm-m3/mol	CHEMFATE
Water Solub:	3.5E+03	mg/L	CHEMFATE
Distrib Coef:	7.1E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	8.7E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.4E-01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.9E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.9E+00		RTI_LOGP
Water Solub:	3.5E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-80.00° C
Boiling Point :60.10° C
Formula :C2 H2 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dichloroethylene, cis-1,2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000156-59-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.5E+03
Distrib:	7.1E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	7.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UNTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	7.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichloroethylene, trans-1,2- CAS Number: 000156-60-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.3E+03	mg/kg	ACGIH
Dermal LD50:	5.0E+03	mg/kg	RTECS
Gas Inhal LC50:	2.2E+04	ppm	ACGIH
Dust Inhal LC50:	4.3E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.2E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	8.7E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.3E-01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.69E+01
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.3E+02	Torr	CHEMFATE
Henry's Law:	9.4E-03	atm-m3/mol	CHEMFATE
Water Solub:	6.3E+03	mg/L	CHEMFATE
Distrib Coef:	1.1E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.1E+00		RTI_LOGP
Water Solub:	6.3E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-49.80° C
Boiling Point :48.70° C
Formula :C2 H2 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dichloroethylene, trans-1,2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000156-60-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	6.3E+03
Distrib:	1.1E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichlorophenol, 2,4- CAS Number: 000120-83-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.8E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+03	µg/L	AQUIRE
Salt Ecol LC50:	5.1E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:	1.3E-01	days	FATERATE
Biodeg:	8.3E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+01	days	THOMAS
Photolysis:	1.3E-01	days	FATERATE
Biodeg:	8.3E+00	days	FATERATE
Radio:		days	
Log Kow:	3.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.63E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.7E-02	Torr	CHEMFATE
Henry's Law:	3.2E-06	atm-m3/mol	CHEMFATE
Water Solub:	4.5E+03	mg/L	CHEMFATE
Distrib Coef:	2.9E-01	ml/g	RTI_ION
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	9.8E+02		AQUIRE
Salt BCF:			
Log Kow:	3.1E+00		RTI_LOGP
Water Solub:	4.5E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :45.00° C
Boiling Point :210.00° C
Formula :C6 H4 Cl2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dichlorophenol, 2,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000120-83-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	4.5E+03
Distrib:	2.9E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichlorophenoxyacetic acid, 2,4- CAS Number: 000094-75-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+02	mg/kg	C_EENV
Dermal LD50:	1.5E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.9E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.5E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	4.0E+00	days	FATERATE
Biodeg:	5.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	4.0E+00	days	FATERATE
Biodeg:	5.0E+01	days	FATERATE
Radio:		days	
Log Kow:	2.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.21E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.0E-07	Torr	CHEMFATE
Henry's Law:	1.0E-08	atm-m3/mol	CHEMFATE
Water Solub:	6.8E+02	mg/L	CHEMFATE
Distrib Coef:	3.3E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	2.4E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	2.4E+01		AQUIRE
Log Kow:	2.7E+00		RTI_LOGP
Water Solub:	6.8E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :140.50° C
Boiling Point :160.00° C @ 0.40 Torr
Formula :C8 H6 Cl2 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichlorophenoxyacetic acid, 2,4- CAS Number: 000094-75-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	6.8E+02
Distrib:	3.3E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	7.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	7.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichloropropane, 1,2- CAS Number: 000078-87-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	1.1E-03	mg/kg/day	IRIS
Oral Slope:	6.8E-02	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.2E+03	mg/kg	ACGIH
Dermal LD50:	8.8E+03	mg/kg	RTECS
Gas Inhal LC50:	7.2E+02	ppm	ACGIH
Dust Inhal LC50:	1.4E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.2E+04	µg/L	AQUIRE
Salt Ecol LC50:	2.4E+05	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.13E+02
Density:	1.2E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.2E+01	Torr	CHEMFATE
Henry's Law:	2.8E-03	atm-m3/mol	CHEMFATE
Water Solub:	2.8E+03	mg/L	CHEMFATE
Distrib Coef:	8.7E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	5.5E+03	days	FATE
Volatility:	9.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.3E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	5.5E+03	days	FATE
Volatility:	1.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.3E+03	days	FATERATE
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	2.8E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-70.00° C
Boiling Point :95.50° C
Formula :C3 H6 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dichloropropane, 1,2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000078-87-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.8E+03
Distrib:	8.7E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	4.2E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	1.3E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	9.4E+00	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	1.3E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.6E-02	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichloropropene, 1,3- CAS Number: 000542-75-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:	5.7E-03	mg/kg/day	IRIS
Oral Slope:	1.8E-01	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.3E-01	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.7E+02	mg/kg	C_EENV
Dermal LD50:	5.0E+02	mg/kg	ACGIH
Gas Inhal LC50:	4.0E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.4E+02	µg/L	AQUIRE
Salt Ecol LC50:	1.8E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.11E+02
Density:	1.2E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.4E+01	Torr	CHEMFATE
Henry's Law:	1.8E-02	atm-m3/mol	CHEMFATE
Water Solub:	2.8E+03	mg/L	CHEMFATE
Distrib Coef:	9.1E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.1E+01	days	FATERATE
Volatility:	9.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.1E+01	days	FATERATE
Volatility:	10.0E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	2.8E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :108.00° C
Formula :C3 H4 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dichloropropene, 1,3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000542-75-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.8E+03
Distrib:	9.1E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	6.6E-05	mg/m3
Non Cancer Risk:	2.1E-02	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.7E-04	mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	3.6E+00	mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.7E-04	mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.8E-02	mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.11E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.3E+01	Torr	CHEMCALC
Henry's Law:		atm-m3/mol	
Water Solub:	2.7E+03	mg/L	CHEMCALC
Distrib Coef:	9.1E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	2.7E+03	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :104.30° C
Formula :C3 H4 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Dichloropropene, cis-1,3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010061-01-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	2.7E+03
Distrib:	9.1E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dichloropropene, trans-1,3- CAS Number: 010061-02-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.11E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.3E+01	Torr	CHEMCALC
Henry's Law:		atm-m3/mol	
Water Solub:	2.7E+03	mg/L	CHEMCALC
Distrib Coef:	9.1E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	2.7E+03	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :112.00° C
Formula :C3 H4 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Dichloropropene, trans-1,3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010061-02-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	2.7E+03
Distrib:	9.1E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dichlorvos

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000062-73-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-04	mg/kg/day	IRIS
Inhal RfD:	1.4E-04	mg/kg/day	IRIS
Oral Slope:	2.9E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.5E+01	mg/kg	C_EENV
Dermal LD50:	8.0E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.5E-02	µg/L	AQUIRE
Salt Ecol LC50:	5.7E+00	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	8.7E+00	days	FATE
Volatility:	1.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	8.7E+00	days	FATE
Volatility:	1.4E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.21E+02
Density:	1.4E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.3E-02	Torr	CHEMFATE
Henry's Law:	1.5E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+04	mg/L	CHEMFATE
Distrib Coef:	3.2E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.4E+00		RTI_LOGP
Water Solub:	1.0E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :140.00° C @ 20.00 Torr
Formula :C4 H7 Cl2 O4 P

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.2000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.0E+04
Distrib:	3.2E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	5.2E-04	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.9E-04	mg/L
Non Cancer Risk:	1.8E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.2E+00	mg/kg
Non Cancer Risk:	3.9E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.9E-04	mg/L
Non Cancer Risk:	1.8E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.1E-02	mg/kg
Non Cancer Risk:	6.8E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.8E+02	mg/kg	RTECS
Dermal LD50:	1.0E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	5.0E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.3E+01	µg/L	AQUIRE
Salt Ecol LC50:	1.4E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	4.3E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.70E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.3E+00	mg/L	CHEMFATE
Distrib Coef:	5.9E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.9E+04		AQUIRE
Salt BCF:			
Log Kow:	4.3E+00		RTI_LOGP
Water Solub:	1.3E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :77.50° C
Boiling Point :
Formula :C14 H9 Cl5 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.3E+00
Distrib:	5.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dieldrin

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000060-57-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	1.6E+01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	4.2E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	4.2E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	3.7E+01	mg/kg	ACGIH
Dermal LD50:	6.0E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	2.5E+00	µg/L	WATCRIT
Salt AWQC:	7.1E-01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.9E-03	µg/L	WATCRIT
Salt AWQC:	1.9E-03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E-01	µg/L	AQUIRE
Salt Ecol LC50:	7.0E-01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.81E+02
Density:	1.8E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.9E-06	Torr	CHEMFATE
Henry's Law:	1.5E-05	atm-m3/mol	CHEMFATE
Water Solub:	2.0E-01	mg/L	CHEMFATE
Distrib Coef:	4.3E+01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.0E+03	days	FATE
Volatility:	1.7E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.1E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.0E+03	days	FATE
Volatility:	5.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.1E+03	days	FATERATE
Radio:		days	
Log Kow:	5.4E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.8E+04		VER_BCF
Salt BCF:	8.0E+03		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	6.8E+04		VER_BCF
Salt BCF:	8.0E+03		VER_BCF
Log Kow:	5.4E+00		RTI_LOGP
Water Solub:	2.0E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :175.50° C
Boiling Point :
Formula :C12 H8 Cl6 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.0E-01
Distrib:	4.3E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.3E-07	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-06	mg/L
Non Cancer Risk:	1.8E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-02	mg/kg
Non Cancer Risk:	3.9E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-06	mg/L
Non Cancer Risk:	1.8E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	3.0E-01	ppm
Cancer Risk:	2.0E-04	mg/kg
Non Cancer Risk:	6.8E-02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	2.5E+00	µg/L
Salt AWQC:	7.1E-01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.9E-03	µg/L
Salt AWQC:	1.9E-03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Diethyl phthalate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000084-66-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	9.5E+03	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.2E+04	µg/L	AQUIRE
Salt Ecol LC50:	3.0E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	8.4E+03	days	FATE
Volatility:	2.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	5.6E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	8.4E+03	days	FATE
Volatility:	8.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:	5.6E+01	days	FATERATE
Radio:		days	
Log Kow:	2.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.22E+02
Density:	1.2E+00 g/mL @ 14.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.7E-03	Torr	CHEMFATE
Henry's Law:	4.5E-07	atm-m3/mol	CHEMFATE
Water Solub:	1.1E+03	mg/L	CHEMFATE
Distrib Coef:	5.7E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.2E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.2E+02		VER_BCF
Salt BCF:			
Log Kow:	2.5E+00		RTI_LOGP
Water Solub:	1.1E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-40.50° C
Boiling Point :295.00° C
Formula :C12 H14 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Diethyl phthalate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000084-66-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.1E+03
Distrib:	5.7E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	6.3E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Diethylene glycol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000111-46-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.3E+03	mg/kg	RTECS
Dermal LD50:	1.2E+04	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.1E+06	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+07	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.06E+02
Density:	1.1E+00 g/mL @ 15.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.8E-03	Torr	CHEMFATE
Henry's Law:	1.8E-07	atm-m3/mol	CHEMEST
Water Solub:	1.0E+06	mg/L	CHEMCALC
Distrib Coef:	2.3E-05	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	-2.0E+00		VER_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-2.0E+00		VER_LOGP
Water Solub:	1.0E+06	mg/L	CHEMCALC

OTHER DATA

Melting Point :-10.40° C
Boiling Point :245.80° C
Formula :C4 H10 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Diethylene glycol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000111-46-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.0E+06
Distrib:	2.3E-05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	4.7E+03	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	A		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	2.1E-04	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	A		EPA_ED10
Inhal ED10:	2.1E-04	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	A		EPA_ED10
Oral LD50:	3.0E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.68E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.6E-09	Torr	CHEMFATE
Henry's Law:	5.8E-12	atm-m3/mol	CHEMFATE
Water Solub:	9.6E-02	mg/L	CHEMFATE
Distrib Coef:	1.9E+02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	5.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	5.1E+00		RTI_LOGP
Water Solub:	9.6E-02	mg/L	CHEMFATE

OTHER DATA

Melting Point :170.50° C
Boiling Point :
Formula :C18 H20 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Diethylstibestrol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000056-53-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0002
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	9.6E-02
Distrib:	1.9E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.8E-08	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.4E-04	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.8E-08	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	6.7E-07	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Diisopropylmethyl-phosphonate CAS Number: 001445-75-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.6E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.0E+00		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.0E+00		AQUIRE
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Diisopropylmethyl-phosphonate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001445-75-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	6.3E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UNTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dimethoate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000060-51-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.0E+01	mg/kg	RTECS
Dermal LD50:	3.5E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.0E+00	µg/L	AQUIRE
Salt Ecol LC50:	3.0E-01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.29E+02
Density:	1.3E+00 g/mL @ 65.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.1E-06	Torr	CHEMFATE
Henry's Law:	6.2E-11	atm-m3/mol	CHEMFATE
Water Solub:	2.5E+04	mg/L	CHEMFATE
Distrib Coef:	9.5E-03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.2E+02	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	5.6E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.2E+02	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	5.6E+01	days	FATERATE
Radio:		days	
Log Kow:	6.9E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.9E-01		RTI_LOGP
Water Solub:	2.5E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :52.00° C
Boiling Point :117.00° C @ 0.10 Torr
Formula :C5 H12 N O3 P S2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.5E+04
Distrib:	9.5E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.4E-02	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	3.3E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	3.3E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.44E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.1E-07	Torr	CHEMFATE
Henry's Law:	1.8E-13	atm-m3/mol	CHEMFATE
Water Solub:	6.0E+01	mg/L	CHEMFATE
Distrib Coef:	1.2E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	1.8E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.8E+00		RTI_LOGP
Water Solub:	6.0E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :137.00° C
Boiling Point :
Formula :C14 H16 N2 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Dimethoxybenzidine, 3,3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000119-90-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	6.0E+01
Distrib:	1.2E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	6.1E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.6E+01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	6.1E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.3E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dimethyl phenol, 2,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000105-67-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.1E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.22E+02
Density:	9.7E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.8E-02	Torr	CHEMFATE
Henry's Law:	2.0E-06	atm-m3/mol	CHEMFATE
Water Solub:	7.9E+03	mg/L	FATE
Distrib Coef:	4.2E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.5E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	2.4E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.5E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.5E+02		VER_BCF
Salt BCF:			
Log Kow:	2.4E+00		RTI_LOGP
Water Solub:	7.9E+03	mg/L	FATE

OTHER DATA

Melting Point :24.50° C
Boiling Point :210.90° C
Formula :C8 H10 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dimethyl phenol, 2,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000105-67-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	7.9E+03
Distrib:	4.2E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.4E+03	mg/kg	C_EENV
Dermal LD50:	1.2E+04	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	9.3E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.3E+04	µg/L	AQUIRE
Salt Ecol LC50:	5.8E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.5E+03	days	FATE
Volatility:	4.8E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.5E+03	days	FATE
Volatility:	3.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	1.6E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.94E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.7E-03	Torr	CHEMFATE
Henry's Law:	1.1E-07	atm-m3/mol	CHEMFATE
Water Solub:	4.0E+03	mg/L	CHEMFATE
Distrib Coef:	7.0E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	5.7E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	5.7E+01		VER_BCF
Salt BCF:			
Log Kow:	1.6E+00		RTI_LOGP
Water Solub:	4.0E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :5.50° C
Boiling Point :283.70° C
Formula :C10 H10 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dimethyl phthalate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000131-11-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	4.0E+03
Distrib:	7.0E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dimethyl sulfate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000077-78-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	3.0E+01	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.5E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.5E+04	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.26E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.8E-01	Torr	CHEMFATE
Henry's Law:	4.0E-06	atm-m3/mol	CHEMFATE
Water Solub:	2.8E+04	mg/L	CHEMFATE
Distrib Coef:	2.8E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	5.0E-02	days	FATERATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	5.0E-02	days	FATERATE
Volatility:	7.9E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.2E+00		CHEMFATE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.2E+00		CHEMFATE
Water Solub:	2.8E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-27.00° C
Boiling Point :76.00° C @ 15.00 Torr
Formula :C2 H6 O4 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dimethyl sulfate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000077-78-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.8E+04
Distrib:	2.8E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dimethylbenz(a)anthracene, 7,12- CAS Number: 000057-97-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	1.9E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.9E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	3.3E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.56E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.6E-09	Torr	CHEMFATE
Henry's Law:	3.1E-08	atm-m3/mol	CHEMFATE
Water Solub:	2.5E-02	mg/L	FATE
Distrib Coef:	6.4E+03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	6.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.6E+00		RTI_LOGP
Water Solub:	2.5E-02	mg/L	FATE

OTHER DATA

Melting Point :122.50° C
Boiling Point :
Formula :C20 H16

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0002
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.5E-02
Distrib:	6.4E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dimethylbenzidine, 3,3'- CAS Number: 000119-93-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	9.2E+00	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	3.6E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	3.6E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	6.0E+02	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	2.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.12E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.5E-08	Torr	CHEMFATE
Henry's Law:	6.3E-11	atm-m3/mol	CHEMFATE
Water Solub:	1.3E+03	mg/L	CHEMFATE
Distrib Coef:	8.6E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.7E+00		RTI_LOGP
Water Solub:	1.3E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :131.50° C
Boiling Point :
Formula :C14 H16 N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Dimethylbenzidine, 3,3'-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000119-93-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0002
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.3E+03
Distrib:	8.6E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	9.3E-06	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	7.0E-02	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	9.3E-06	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.4E-04	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dinitro-2-methylphenol, 4,6- CAS Number: 000534-52-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+01	mg/kg	C_EENV
Dermal LD50:	2.0E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.6E+01	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.1E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.2E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.1E+01	days	FATERATE
Radio:		days	
Log Kow:	2.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.98E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.2E-04	Torr	CHEMFATE
Henry's Law:	4.3E-07	atm-m3/mol	CHEMFATE
Water Solub:	2.0E+02	mg/L	CHEMFATE
Distrib Coef:	2.5E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.1E+00		RTI_LOGP
Water Solub:	2.0E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :86.50° C
Boiling Point :
Formula :C7 H6 N2 O5

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dinitro-2-methylphenol, 4,6-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000534-52-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.0E+02
Distrib:	2.5E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dinitrobenzene, 1,3- CAS Number: 000099-65-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.0E+01	mg/kg	RTECS
Dermal LD50:	1.9E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.0E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.68E+02
Density:	1.6E+00 g/mL @ 18.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.0E-04	Torr	CHEMFATE
Henry's Law:	2.3E-07	atm-m3/mol	CHEMFATE
Water Solub:	8.6E+02	mg/L	CHEMFATE
Distrib Coef:	6.0E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.6E+02	days	THOMAS
Photolysis:	3.0E+01	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+02	days	THOMAS
Photolysis:	3.0E+01	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	1.5E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.5E+00		RTI_LOGP
Water Solub:	8.6E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :90.00° C
Boiling Point :291.00° C
Formula :C6 H4 N2 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dinitrobenzene, 1,3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000099-65-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	8.6E+02
Distrib:	6.0E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dinitrophenol, 2,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000051-28-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.0E+01	mg/kg	RTECS
Dermal LD50:	7.0E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.0E+01	µg/L	AQUIRE
Salt Ecol LC50:	3.5E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.0E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.6E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	7.6E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.6E+02	days	FATERATE
Radio:		days	
Log Kow:	1.6E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.84E+02
Density:	1.7E+00 g/mL @ 24.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.1E-03	Torr	CHEMFATE
Henry's Law:	4.4E-07	atm-m3/mol	CHEMFATE
Water Solub:	2.8E+03	mg/L	CHEMFATE
Distrib Coef:	2.0E-05	ml/g	RTI_ION
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.6E+00		RTI_LOGP
Water Solub:	2.8E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C6 H4 N2 O5

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dinitrophenol, 2,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000051-28-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.8E+03
Distrib:	2.0E-05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dinitrotoluene, 2,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000121-14-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	6.8E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	2.6E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	2.6E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.7E+02	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.3E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	3.0E+00	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	3.0E+00	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.82E+02
Density:	1.3E+00 g/mL @ 71.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.5E-04	Torr	CHEMFATE
Henry's Law:	9.3E-08	atm-m3/mol	CHEMFATE
Water Solub:	2.7E+02	mg/L	CHEMFATE
Distrib Coef:	1.9E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.0E+00		RTI_LOGP
Water Solub:	2.7E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :71.00° C
Boiling Point :
Formula :C7 H6 N2 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Dinitrotoluene, 2,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000121-14-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.7E+02
Distrib:	1.9E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.3E-04	mg/L
Non Cancer Risk:	7.3E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	9.4E-01	mg/kg
Non Cancer Risk:	1.6E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.3E-04	mg/L
Non Cancer Risk:	7.3E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.6E-03	mg/kg
Non Cancer Risk:	2.7E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Dinitrotoluene, 2,6- CAS Number: 000606-20-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-03	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:	6.8E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.8E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.5E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.82E+02
Density:	1.3E+00 g/mL @ 111.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.7E-04	Torr	CHEMFATE
Henry's Law:	7.5E-07	atm-m3/mol	CHEMFATE
Water Solub:	1.8E+02	mg/L	CHEMFATE
Distrib Coef:	1.4E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.7E+02	days	THOMAS
Photolysis:	1.0E+00	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	4.6E+01	days	THOMAS
Photolysis:	1.0E+00	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	1.9E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.9E+00		RTI_LOGP
Water Solub:	1.8E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :66.00° C
Boiling Point :
Formula :C7 H6 N2 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.8E+02
Distrib:	1.4E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.3E-04	mg/L
Non Cancer Risk:	3.7E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	9.4E-01	mg/kg
Non Cancer Risk:	7.8E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.3E-04	mg/L
Non Cancer Risk:	3.7E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.6E-03	mg/kg
Non Cancer Risk:	1.4E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dinoseb

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000088-85-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.0E+01	mg/kg	RTECS
Dermal LD50:	8.0E+01	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.8E+01	µg/L	AQUIRE
Salt Ecol LC50:	2.6E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.40E+02
Density:	1.3E+00 g/mL @ 45.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.5E-05	Torr	CHEMFATE
Henry's Law:	4.6E-07	atm-m3/mol	CHEMFATE
Water Solub:	5.2E+01	mg/L	CHEMFATE
Distrib Coef:	3.8E-02	ml/g	RTI_ION
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.2E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.5E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.2E+02	days	FATERATE
Radio:		days	
Log Kow:	3.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	6.4E+01		AQUIRE
Salt BCF:			
Log Kow:	3.1E+00		RTI_LOGP
Water Solub:	5.2E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :40.00° C
Boiling Point :
Formula :C10 H12 N2 O5

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dinoseb

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000088-85-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	5.2E+01
Distrib:	3.8E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	7.0E-03	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	7.0E-03	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.1E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	2.9E+01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	2.9E+01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.0E+03	mg/kg	C_EENV
Dermal LD50:	7.6E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	4.4E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.7E+06	µg/L	AQUIRE
Salt Ecol LC50:	6.7E+06	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	8.8E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	5.7E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	-3.9E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.81E+01
Density:	1.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.8E+01	Torr	CHEMFATE
Henry's Law:	4.8E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	8.3E-04	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-3.9E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :11.80° C
Boiling Point :101.50° C
Formula :C4 H8 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Dioxane, 1,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000123-91-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.0E+06
Distrib:	8.3E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.7E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	5.8E+01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.7E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.9E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Dioxathion

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000078-34-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+01	mg/kg	ACGIH
Dermal LD50:	6.3E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.4E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.3E-01	µg/L	AQUIRE
Salt Ecol LC50:	6.0E+00	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.0E+00		CHEMEST

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.57E+02
Density:	1.3E+00 g/mL @ 26.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	4.6E+02	mg/L	CHEMCALC
Distrib Coef:	1.7E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.0E+00		CHEMEST
Water Solub:	4.6E+02	mg/L	CHEMCALC

OTHER DATA

Melting Point :-20.00° C
Boiling Point :
Formula :C12 H26 O6 P2 S4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Dioxathion

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000078-34-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	4.6E+02
Distrib:	1.7E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Diphenylamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000122-39-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.5E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.0E+02	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.8E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	6.6E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	3.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.69E+02
Density:	1.2E+00 g/mL @ 22.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.7E-04	Torr	CHEMFATE
Henry's Law:	5.0E-07	atm-m3/mol	CHEMFATE
Water Solub:	3.6E+01	mg/L	CHEMFATE
Distrib Coef:	5.3E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.5E+00		RTI_LOGP
Water Solub:	3.6E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :52.90° C
Boiling Point :302.00° C
Formula :C12 H11 N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Diphenylamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000122-39-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.6E+01
Distrib:	5.3E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	9.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.0E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	9.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	3.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Diphenylhydrazine, 1,2- CAS Number: 000122-66-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	8.0E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	7.7E-01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	2.3E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B1		EPA_ED10
Inhal ED10:	2.3E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B1		EPA_ED10
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.3E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.84E+02
Density:	1.2E+00 g/mL @ 16.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.3E-04	Torr	CHEMFATE
Henry's Law:	1.5E-06	atm-m3/mol	CHEMFATE
Water Solub:	6.8E+01	mg/L	CHEMFATE
Distrib Coef:	1.6E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.9E+00		RTI_LOGP
Water Solub:	6.8E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :131.00° C
Boiling Point :
Formula :C12 H12 N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	6.8E+01
Distrib:	1.6E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.1E-05	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.0E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.9E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.2E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.0E+01	mg/kg	ACGIH
Dermal LD50:	4.3E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.44E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :337.00° C
Boiling Point :
Formula :C12 H12 N2 Br2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Diquat

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000085-00-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	8.0E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.7E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	8.0E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	3.0E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Disulfoton

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000298-04-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.3E+00	mg/kg	ACGIH
Dermal LD50:	6.0E+00	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.0E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.9E+00	µg/L	AQUIRE
Salt Ecol LC50:	7.4E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.1E+02	days	FATE
Volatility:	1.6E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.1E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.1E+02	days	FATE
Volatility:	1.2E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.1E+01	days	FATERATE
Radio:		days	
Log Kow:	4.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.74E+02
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.8E-04	Torr	CHEMFATE
Henry's Law:	4.0E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.6E+01	mg/L	CHEMFATE
Distrib Coef:	1.6E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	5.4E+02		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	5.4E+02		AQUIRE
Salt BCF:			
Log Kow:	4.0E+00		RTI_LOGP
Water Solub:	1.6E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :-25.00° C
Boiling Point :108.00° C @ 0.01 Torr
Formula :C8 H19 O2 P S3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Disulfoton

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000298-04-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.6E+01
Distrib:	1.6E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E-02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.4E+03	mg/kg	ACGIH
Dermal LD50:	5.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E+02	µg/L	AQUIRE
Salt Ecol LC50:	6.3E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.33E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	4.2E+01	mg/L	CHEMFATE
Distrib Coef:	8.6E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.7E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.9E+02		AQUIRE
Salt BCF:			
Log Kow:	2.7E+00		RTI_LOGP
Water Solub:	4.2E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :158.00° C
Boiling Point :
Formula :C9 H10 Cl2 N2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Diuron

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000330-54-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	4.2E+01
Distrib:	8.6E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Endosulfan (I or II)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000115-29-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.8E+01	mg/kg	ACGIH
Dermal LD50:	7.8E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	8.0E-02	mg/L	ACGIH
ACUTE			
Fresh AWQC:	2.2E-01	µg/L	WATCRIT
Salt AWQC:	3.4E-02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	5.6E-02	µg/L	WATCRIT
Salt AWQC:	8.7E-03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.0E-02	µg/L	AQUIRE
Salt Ecol LC50:	3.0E-02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	9.1E+00	days	FATERATE
Volatility:	1.8E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.4E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	9.1E+00	days	FATERATE
Volatility:	6.3E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.4E+01	days	FATERATE
Radio:		days	
Log Kow:	4.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.07E+02
Density:	1.7E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.0E-05	Torr	CHEMFATE
Henry's Law:	1.1E-05	atm-m3/mol	CHEMFATE
Water Solub:	5.1E-01	mg/L	CHEMFATE
Distrib Coef:	4.3E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	5.4E+02		AQUIRE
Salt BCF:	2.8E+03		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.2E+04		AQUIRE
Salt BCF:	2.8E+03		VER_BCF
Log Kow:	4.1E+00		RTI_LOGP
Water Solub:	5.1E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :106.00° C
Boiling Point :106.00° C @ 0.70 Torr
Formula :C9 H6 Cl6 O3 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Endosulfan (I or II)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000115-29-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	5.1E-01
Distrib:	4.3E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	4.7E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	8.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	2.2E-01	µg/L
Salt AWQC:	3.4E-02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	5.6E-02	µg/L
Salt AWQC:	8.7E-03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Endosulfan sulfate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001031-07-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.8E+01	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.23E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.6E+00	Torr	CHEMEST
Henry's Law:	2.1E-03	atm-m3/mol	CHEMEST
Water Solub:	6.4E+00	mg/L	CHEMCALC
Distrib Coef:	1.9E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.7E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.7E+00		RTI_LOGP
Water Solub:	6.4E+00	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C9 H6 Cl6 O4 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	6.4E+00
Distrib:	1.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Endothall

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000145-73-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.8E+01	mg/kg	RTECS
Dermal LD50:	1.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E+01	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.32E+02
Density:	1.4E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.8E-04	Torr	CHEMEST
Henry's Law:	2.6E-10	atm-m3/mol	CHEMEST
Water Solub:	2.1E+04	mg/L	CHEMFATE
Distrib Coef:	5.8E-04	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.5E+02		AQUIRE
Salt BCF:			
Log Kow:	-5.5E-01		CHEMEST
Water Solub:	2.1E+04	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	-5.5E-01		CHEMEST

OTHER DATA

Melting Point :144.00° C
Boiling Point :
Formula :C8 H10 Na2 O5

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Endothall

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000145-73-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.1E+04
Distrib:	5.8E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Endrin

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000072-20-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.4E+00	mg/kg	ACGIH
Dermal LD50:	1.5E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	1.8E-01	µg/L	WATCRIT
Salt AWQC:	3.7E-02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	2.3E-03	µg/L	WATCRIT
Salt AWQC:	2.3E-03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.0E-02	µg/L	AQUIRE
Salt Ecol LC50:	3.7E-02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.81E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E-06	Torr	CHEMFATE
Henry's Law:	7.5E-06	atm-m3/mol	CHEMFATE
Water Solub:	2.5E-01	mg/L	CHEMFATE
Distrib Coef:	2.5E+01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	5.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.0E+03		VER_BCF
Salt BCF:	2.8E+03		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.5E+04		VER_BCF
Salt BCF:	6.4E+03		VER_BCF
Log Kow:	5.1E+00		RTI_LOGP
Water Solub:	2.5E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H8 Cl6 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Endrin

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000072-20-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.5E-01
Distrib:	2.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-03	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-03	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	1.8E-01	µg/L
Salt AWQC:	3.7E-02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	2.3E-03	µg/L
Salt AWQC:	2.3E-03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Endrin aldehyde

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007421-93-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	3.1E+00	mg/L	CHEMCALC
Distrib Coef:	1.7E+01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	4.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.0E+00		RTI_LOGP
Water Solub:	3.1E+00	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Endrin aldehyde

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007421-93-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	3.1E+00
Distrib:	1.7E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Endrin ketone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 053494-70-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+01	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Endrin ketone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 053494-70-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.7E+01	mg/kg	ACGIH
Dermal LD50:	6.2E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	7.1E-01	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.2E-02	µg/L	AQUIRE
Salt Ecol LC50:	6.9E+01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.7E+02	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.7E+02	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	5.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.84E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	6.0E-01	mg/L	CHEMFATE
Distrib Coef:	2.5E+01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	5.1E+00		RTI_LOGP
Water Solub:	6.0E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :-13.00° C
Boiling Point :165.00° C @ 0.30 Torr
Formula :C9 H22 O4 P2 S4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Ethion

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000563-12-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	6.0E-01
Distrib:	2.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.000D
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Ethyl acetate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000141-78-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	9.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.6E+03	mg/kg	ACGIH
Dermal LD50:	2.0E+04	mg/kg	RTECS
Gas Inhal LC50:	1.6E+04	ppm	ACGIH
Dust Inhal LC50:	6.1E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.3E+05	µg/L	AQUIRE
Salt Ecol LC50:	1.6E+06	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.81E+01
Density:	9.0E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.4E+01	Torr	CHEMFATE
Henry's Law:	1.4E-04	atm-m3/mol	CHEMFATE
Water Solub:	8.0E+04	mg/L	CHEMFATE
Distrib Coef:	9.5E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.9E-01		RTI_LOGP
Water Solub:	8.0E+04	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	7.4E+02	days	FATERATE
Volatility:	8.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	7.4E+02	days	FATERATE
Volatility:	1.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	6.9E-01		RTI_LOGP

OTHER DATA

Melting Point :-83.60° C
Boiling Point :77.10° C
Formula :C4 H8 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Ethyl acetate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000141-78-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	8.0E+04
Distrib:	9.5E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.0E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.2E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Ethyl benzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-41-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	IRIS
Inhal RfD:	2.9E-01	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.5E+03	mg/kg	C_EENV
Dermal LD50:	1.8E+04	mg/kg	RTECS
Gas Inhal LC50:	1.0E+04	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.2E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.3E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.1E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.8E-01	days	THOMAS
Photolysis:		days	
Biodeg:	1.0E+01	days	FATERATE
Radio:		days	
Log Kow:	3.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.06E+02
Density:	8.7E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.6E+00	Torr	CHEMFATE
Henry's Law:	7.9E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.7E+02	mg/L	CHEMFATE
Distrib Coef:	7.3E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.1E+00		RTI_LOGP
Water Solub:	1.7E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :-94.90° C
Boiling Point :136.10° C
Formula :C8 H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Ethyl benzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-41-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.7E+02
Distrib:	7.3E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.0E+00	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	7.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	7.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Ethyl chloride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-00-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	2.9E+00	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	6.6E+04	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.8E+01	days	FATERATE
Volatility:	1.8E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.8E+01	days	FATERATE
Volatility:	1.8E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	6.45E+01
Density:	8.9E-01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.0E+03	Torr	CHEMFATE
Henry's Law:	8.8E-03	atm-m3/mol	CHEMFATE
Water Solub:	5.7E+03	mg/L	CHEMFATE
Distrib Coef:	3.2E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.4E+00		RTI_LOGP
Water Solub:	5.7E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-138.70° C
Boiling Point :12.30° C
Formula :C2 H5 Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Ethyl chloride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-00-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	5.7E+03
Distrib:	3.2E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.0E+01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Ethyl ether

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000060-29-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.2E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:	3.1E+04	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.6E+06	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+07	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	7.6E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.1E-01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	8.3E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.41E+01
Density:	7.1E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.4E+02	Torr	CHEMFATE
Henry's Law:	3.3E-02	atm-m3/mol	CHEMFATE
Water Solub:	5.7E+04	mg/L	CHEMFATE
Distrib Coef:	1.3E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	8.3E-01		RTI_LOGP
Water Solub:	5.7E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-116.30° C
Boiling Point :34.50° C
Formula :C4 H10 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Ethyl ether

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000060-29-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	5.7E+04
Distrib:	1.3E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Ethyl methacrylate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000097-63-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	9.0E-02	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.8E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:	8.3E+03	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.14E+02
Density:	9.1E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.1E+01	Torr	CHEMFATE
Henry's Law:	8.4E-04	atm-m3/mol	CHEMFATE
Water Solub:	3.7E+03	mg/L	CHEMFATE
Distrib Coef:	7.3E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.4E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.6E+00		RTI_LOGP
Water Solub:	3.7E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :117.00° C
Formula :C6 H10 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Ethyl methacrylate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000097-63-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	3.7E+03
Distrib:	7.3E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.0E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.2E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Ethyl methanesulfonate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000062-50-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	3.4E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	3.4E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	4.7E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.24E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.1E-01	Torr	CHEMFATE
Henry's Law:	5.4E-06	atm-m3/mol	CHEMFATE
Water Solub:	6.3E+03	mg/L	CHEMFATE
Distrib Coef:	2.2E-03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.0E-01	days	FATE
Volatility:	1.0E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.0E-01	days	FATE
Volatility:	6.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	5.0E-02		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	5.0E-02		RTI_LOGP
Water Solub:	6.3E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :86.00° C @ 10.00 Torr
Formula :C3 H8 O3 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Ethyl methanesulfonate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000062-50-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.3E+03
Distrib:	2.2E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Ethyldipropylthiocarbamate, s- CAS Number: 000759-94-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.5E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	9.2E+02	mg/kg	RTECS
Dermal LD50:	1.5E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.89E+02
Density:	9.5E-01 g/mL @ 30.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.6E-01	Torr	CHEMFATE
Henry's Law:	1.1E-04	atm-m3/mol	CHEMEST
Water Solub:	3.7E+02	mg/L	CHEMFATE
Distrib Coef:	2.9E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.6E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.2E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.2E+00		RTI_LOGP
Water Solub:	3.7E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :127.00° C @ 20.00 Torr
Formula :C9 H19 N O S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Ethyldipropylthiocarbamate, s-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000759-94-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.7E+02
Distrib:	2.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	9.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.0E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	9.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	3.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Ethylene glycol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000107-21-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E+00	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.7E+03	mg/kg	C_EENV
Dermal LD50:	9.5E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.3E+05	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+05	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	6.21E+01
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.2E-02	Torr	CHEMFATE
Henry's Law:	6.0E-08	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	9.2E-05	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.2E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.2E+01	days	FATERATE
Radio:		days	
Log Kow:	-1.4E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-1.4E+00		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-13.00° C
Boiling Point :197.30° C
Formula :C2 H6 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Ethylene glycol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000107-21-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.2000
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.0E+06
Distrib:	9.2E-05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+05	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Ethylene glycol monoethyl ether CAS Number: 000110-80-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-01	mg/kg/day	HEAST
Inhal RfD:	5.7E-02	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.4E+03	mg/kg	ACGIH
Dermal LD50:	3.3E+03	mg/kg	ACGIH
Gas Inhal LC50:	1.8E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E+06	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+07	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.9E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.9E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	-1.0E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.01E+01
Density:	9.3E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.3E+00	Torr	CHEMFATE
Henry's Law:	1.2E-07	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	1.6E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-1.0E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-70.00° C
Boiling Point :135.00° C
Formula :C4 H10 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Ethylene glycol monoethyl ether

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000110-80-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.0E+06
Distrib:	1.6E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
OW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Ethylene thiourea

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000096-45-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.1E-01	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	7.7E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	7.7E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	3.0E+03	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.6E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.02E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E-04	Torr	CHEMFATE
Henry's Law:	3.1E-10	atm-m3/mol	CHEMFATE
Water Solub:	6.2E+04	mg/L	CHEMFATE
Distrib Coef:	4.5E-04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	-6.6E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-6.6E-01		RTI_LOGP
Water Solub:	6.2E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :203.00° C
Boiling Point :
Formula :C3 H6 N2 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Ethylene thiourea

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000096-45-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.2E+04
Distrib:	4.5E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.7E-04	mg/L
Non Cancer Risk:	2.9E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	5.8E+00	mg/kg
Non Cancer Risk:	6.3E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.7E-04	mg/L
Non Cancer Risk:	2.9E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.9E-02	mg/kg
Non Cancer Risk:	1.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Fenthion

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000055-38-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.5E+02	mg/kg	ACGIH
Dermal LD50:	3.3E+02	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	8.0E-01	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.4E-01	µg/L	AQUIRE
Salt Ecol LC50:	1.1E-01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.78E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	5.4E+01	mg/L	CHEMFATE
Distrib Coef:	2.1E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	6.2E+01		AQUIRE
Salt BCF:			
Log Kow:	4.1E+00		RTI_LOGP
Water Solub:	5.4E+01	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	4.1E+00		RTI_LOGP

OTHER DATA

Melting Point :7.50° C
Boiling Point :87.00° C @ 0.01 Torr
Formula :C10 H15 O3 P S2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	5.4E+01
Distrib:	2.1E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Ferrous sulfate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007720-78-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.2E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.1E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.70E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	2.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	1.5E+03	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	1.5E+03	mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Fe O4 S H2O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Iron
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Ferrous sulfate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007720-78-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.5E+03
Distrib:	2.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.0E+03	mg/kg	RTECS
Dermal LD50:	3.2E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.6E+01	µg/L	AQUIRE
Salt Ecol LC50:	5.0E+02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.02E+02
Density:	1.3E+00 g/mL @ 0.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.8E-06	Torr	LIVECHEM
Henry's Law:	1.6E-05	atm-m3/mol	CHEMFATE
Water Solub:	2.1E-01	mg/L	CHEMFATE
Distrib Coef:	2.2E+02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+02	days	THOMAS
Photolysis:	2.6E+00	days	FATERATE
Biodeg:	4.4E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.5E+00	days	THOMAS
Photolysis:	2.6E+00	days	FATERATE
Biodeg:	4.4E+02	days	FATERATE
Radio:		days	
Log Kow:	5.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	5.9E+03		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	3.8E+02		VER_BCF
Salt BCF:	5.9E+03		AQUIRE
Log Kow:	5.1E+00		RTI_LOGP
Water Solub:	2.1E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :107.80° C
Boiling Point :384.00° C
Formula :C16 H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Fluoranthene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000206-44-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.1E-01
Distrib:	2.2E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Fluorene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000086-73-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.0E+02	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	6.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.7E+00	days	THOMAS
Photolysis:		days	
Biodeg:	6.0E+01	days	FATERATE
Radio:		days	
Log Kow:	4.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.66E+02
Density:	1.2E+00 g/mL @ 0.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.3E-04	Torr	CHEMFATE
Henry's Law:	6.4E-05	atm-m3/mol	CHEMFATE
Water Solub:	2.0E+00	mg/L	CHEMFATE
Distrib Coef:	2.8E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.8E+03		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.8E+03		VER_BCF
Salt BCF:			
Log Kow:	4.2E+00		RTI_LOGP
Water Solub:	2.0E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :114.80° C
Boiling Point :295.00° C
Formula :C13 H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Fluorene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000086-73-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.0E+00
Distrib:	2.8E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Fluorine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007782-41-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.5E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.80E+01
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.6E+02	Torr	CHEMEST
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+02	ml/g	BAES_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :-219.61° C
Boiling Point :-188.13° C
Formula :F2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Fluorine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007782-41-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	1.5E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	4.7E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	8.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Formaldehyde

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000050-00-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:	4.6E-02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B1		IRIS
Oral ED10:	3.4E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B1		EPA_ED10
Inhal ED10:	3.4E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B1		EPA_ED10
Oral LD50:	4.2E+01	mg/kg	C_EENV
Dermal LD50:	2.7E+02	mg/kg	RTECS
Gas Inhal LC50:	8.1E+01	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.0E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.0E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	-5.0E-02		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.00E+01
Density:	8.1E-01 g/mL @ -20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.2E+03	Torr	CHEMFATE
Henry's Law:	3.4E-07	atm-m3/mol	CHEMFATE
Water Solub:	5.5E+05	mg/L	CHEMFATE
Distrib Coef:	1.8E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-5.0E-02		RTI_LOGP
Water Solub:	5.5E+05	mg/L	CHEMFATE

OTHER DATA

Melting Point :-92.00° C
Boiling Point :-19.10° C
Formula :C H2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Formaldehyde

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000050-00-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	5.5E+05
Distrib:	1.8E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.9E-04	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Formic acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000064-18-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E+00	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.0E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:	8.0E+04	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.60E+01
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.3E+01	Torr	CHEMFATE
Henry's Law:	1.7E-07	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	9.0E-06	ml/g	RTI_ION
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	-5.4E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-5.4E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :8.30° C
Boiling Point :101.00° C
Formula :C H2 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Formic acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000064-18-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.0E+06
Distrib:	9.0E-06

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+05	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Furan

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000110-00-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.3E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:	3.4E+03	ppm	RTECS
Dust Inhal LC50:	1.2E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.1E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	7.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	7.8E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.3E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	6.81E+01
Density:	9.5E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.0E+02	Torr	CHEMFATE
Henry's Law:	5.4E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+04	mg/L	CHEMFATE
Distrib Coef:	4.2E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.3E+00		RTI_LOGP
Water Solub:	1.0E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-85.60° C
Boiling Point :31.50° C
Formula :C4 H4 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Furan

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000110-00-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.0E+04
Distrib:	4.2E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Furfural

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000098-01-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-03	mg/kg/day	IRIS
Inhal RfD:	1.4E-02	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.0E+02	mg/kg	RTECS
Dermal LD50:	6.2E+02	mg/kg	RTECS
Gas Inhal LC50:	2.6E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.61E+01
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.2E+00	Torr	CHEMFATE
Henry's Law:	4.0E-06	atm-m3/mol	CHEMEST
Water Solub:	1.1E+05	mg/L	CHEMCALC
Distrib Coef:	5.1E-03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	6.9E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	4.1E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.1E-01		RTI_LOGP
Water Solub:	1.1E+05	mg/L	CHEMCALC

OTHER DATA

Melting Point :-36.50° C
Boiling Point :161.70° C
Formula :C5 H4 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Furfural

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000098-01-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	.11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.1E+05
Distrib:	5.1E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	5.2E-02	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Glycidylaldehyde

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000765-34-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-04	mg/kg/day	IRIS
Inhal RfD:	1.4E-04	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	3.4E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	3.4E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	5.0E+01	mg/kg	RTECS
Dermal LD50:	2.5E+02	mg/kg	RTECS
Gas Inhal LC50:	2.5E+02	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.21E+01
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.7E+01	Torr	CHEMFATE
Henry's Law:	5.1E-07	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	3.8E-04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	4.2E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	-7.3E-01		CHEMFATE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-7.3E-01		CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-62.00° C
Boiling Point :112.50° C
Formula :C3 H4 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Glycidylaldehyde

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000765-34-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.0E+06
Distrib:	3.8E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	5.2E-04	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	4.5E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	4.6E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	8.5E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	8.5E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	4.0E+01	mg/kg	C_EENV
Dermal LD50:	1.2E+02	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	5.2E-01	µg/L	WATCRIT
Salt AWQC:	5.3E-02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	3.8E-03	µg/L	WATCRIT
Salt AWQC:	3.6E-03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E-01	µg/L	AQUIRE
Salt Ecol LC50:	3.0E-02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.2E+00	days	FATE
Volatility:	1.7E+02	days	THOMAS
Photolysis:		days	
Biodeg:	6.5E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.2E+00	days	FATE
Volatility:	1.8E+00	days	THOMAS
Photolysis:		days	
Biodeg:	6.5E+01	days	FATERATE
Radio:		days	
Log Kow:	6.3E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.73E+02
Density:	1.6E+00 g/mL @ 9.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.0E-04	Torr	LIVECHEM
Henry's Law:	1.5E+00	atm-m3/mol	CHEMFATE
Water Solub:	1.8E-01	mg/L	LIVECHEM
Distrib Coef:	2.9E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	8.3E+03		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.4E+04		VER_BCF
Salt BCF:	3.7E+04		VER_BCF
Log Kow:	6.3E+00		RTI_LOGP
Water Solub:	1.8E-01	mg/L	LIVECHEM

OTHER DATA

Melting Point :95.50° C
Boiling Point :
Formula :C10 H5 Cl7

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.8E-01
Distrib:	2.9E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.9E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	4.0E-04	mg/L
Cancer Risk:	1.9E-05	mg/L
Non Cancer Risk:	1.8E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.4E-01	mg/kg
Non Cancer Risk:	3.9E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	4.0E-04	mg/L
Cancer Risk:	1.9E-05	mg/L
Non Cancer Risk:	1.8E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	3.0E-01	ppm
Cancer Risk:	7.0E-04	mg/kg
Non Cancer Risk:	6.8E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	5.2E-01	µg/L
Salt AWQC:	5.3E-02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	3.8E-03	µg/L
Salt AWQC:	3.6E-03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Heptachlor epoxide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001024-57-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.3E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	9.1E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	9.1E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	3.4E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	3.4E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	6.2E+01	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	5.2E-01	µg/L	WATCRIT
Salt AWQC:	5.3E-02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	3.8E-03	µg/L	WATCRIT
Salt AWQC:	3.6E-03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.3E+00	µg/L	AQUIRE
Salt Ecol LC50:	4.0E-02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+02	days	THOMAS
Photolysis:		days	
Biodeg:	5.5E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	7.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:	5.5E+02	days	FATERATE
Radio:		days	
Log Kow:	5.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.89E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E-05	Torr	CHEMFATE
Henry's Law:	9.5E-06	atm-m3/mol	CHEMFATE
Water Solub:	2.0E-01	mg/L	CHEMFATE
Distrib Coef:	1.6E+02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.3E+00		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.4E+04		AQUIRE
Salt BCF:			
Log Kow:	5.0E+00		RTI_LOGP
Water Solub:	2.0E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :160.00° C
Boiling Point :
Formula :C10 H5 Cl7 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.0E-01
Distrib:	1.6E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	9.4E-07	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-04	mg/L
Cancer Risk:	9.4E-06	mg/L
Non Cancer Risk:	4.7E-04	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	7.0E-02	mg/kg
Non Cancer Risk:	1.0E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-04	mg/L
Cancer Risk:	9.4E-06	mg/L
Non Cancer Risk:	4.7E-04	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	3.0E-01	ppm
Cancer Risk:	3.5E-04	mg/kg
Non Cancer Risk:	1.8E-02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	5.2E-01	µg/L
Salt AWQC:	5.3E-02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	3.8E-03	µg/L
Salt AWQC:	3.6E-03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Heptachlorinated dibenzo-p-dioxin, 1,2,3,4,6,7,8- CAS Number: 035822-46-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+03	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.6E+03	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.3E+00	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.25E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	4.2E-04	mg/L	CHEMCALC
Distrib Coef:	2.3E+05	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	8.2E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.8E+04		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.8E+04		AQUIRE
Salt BCF:			
Log Kow:	8.2E+00		RTI_LOGP
Water Solub:	4.2E-04	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H Cl7 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	4.2E-04
Distrib:	2.3E+05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.3E-09	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-08	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-04	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-08	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.0E-06	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Heptachlorinated dibenzofuran, 1,2,3,4,6,7,8- CAS Number: 067562-39-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+03	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.6E+03	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	7.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.09E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	7.6E-04	mg/L	CHEMCALC
Distrib Coef:	1.2E+05	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	7.9E+00		RTI_LOGP
Water Solub:	7.6E-04	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H Cl7 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Heptachlorinated dibenzofuran, 1,2,3,4,6,7,8- CAS Number: 067562-39-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	7.6E-04
Distrib:	1.2E+05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.3E-09	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-08	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-04	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-08	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.0E-06	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Heptachlorinated dibenzofuran, 1,2,3,4,6,7,9- CAS Number: 055673-89-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.09E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H Cl7 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Heptachlorinated dibenzofuran, 1,2,3,4,6,7,9- CAS Number: 055673-89-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Hexabromobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000087-82-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	6.7E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	6.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.51E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.1E-09	Torr	CHEMEST
Henry's Law:	1.3E-05	atm-m3/mol	CHEMEST
Water Solub:	1.7E-04	mg/L	CHEMEST
Distrib Coef:	2.0E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.1E+00		RTI_LOGP
Water Solub:	1.7E-04	mg/L	CHEMEST

OTHER DATA

Melting Point :
Boiling Point :
Formula :C6 Br6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Hexabromobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000087-82-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0002
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.7E-04
Distrib:	2.0E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.91E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.0E-03	mg/L	CHEMCALC
Distrib Coef:	9.1E+04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	7.8E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	7.8E+00		RTI_LOGP
Water Solub:	1.0E-03	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H2 Cl6 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzo-p-dioxin, 1,2,3,4,7,8- CAS Number: 039227-28-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.0E-03
Distrib:	9.1E+04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.3E-10	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-05	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.0E-07	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzo-p-dioxin, 1,2,3,6,7,8- CAS Number: 057653-85-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	6.2E+03	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	4.6E+03	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.0E-02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.9E+00	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.91E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.8E+03		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	5.8E+03		AQUIRE
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H2 Cl6 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzo-p-dioxin, 1,2,3,6,7,8- CAS Number: 057653-85-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.9E-09	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.4E-08	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.0E-04	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.4E-08	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.1E-07	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	6.2E+03	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	4.6E+03	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.0E-02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.91E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H2 Cl6 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzo-p-dioxin, 1,2,3,7,8,9- CAS Number: 019408-74-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.9E-09	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.4E-08	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.0E-04	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.4E-08	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.1E-07	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.75E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	2.5E-05	mg/L	CHEMCALC
Distrib Coef:	4.7E+06	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	9.5E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	9.5E+00		RTI_LOGP
Water Solub:	2.5E-05	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H2 Cl6 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzofuran, 1,2,3,4,7,8- CAS Number: 070648-26-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.5E-05
Distrib:	4.7E+06

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.3E-10	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-05	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.0E-07	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzofuran, 1,2,3,6,7,8- CAS Number: 057117-44-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.75E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H2 Cl6 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzofuran, 1,2,3,6,7,8- CAS Number: 057117-44-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.3E-10	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-05	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.0E-07	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzofuran, 1,2,3,7,8,9- CAS Number: 072918-21-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.75E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H2 Cl6 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzofuran, 1,2,3,7,8,9- CAS Number: 072918-21-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.3E-10	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-05	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.0E-07	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzofuran, 2,3,4,6,7,8- CAS Number: 060851-34-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.2E-01	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.75E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H2 Cl6 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorinated dibenzofuran, 2,3,4,6,7,8- CAS Number: 060851-34-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.3E-10	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-05	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.0E-07	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Hexachlorobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000118-74-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	1.6E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	2.6E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	2.6E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.0E+03	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+04	µg/L	AQUIRE
Salt Ecol LC50:	3.3E+00	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.5E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.1E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.6E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.1E+03	days	FATERATE
Radio:		days	
Log Kow:	5.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.85E+02
Density:	2.0E+00 g/mL @ 23.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.8E-05	Torr	CHEMFATE
Henry's Law:	1.3E-03	atm-m3/mol	CHEMFATE
Water Solub:	5.0E-03	mg/L	CHEMFATE
Distrib Coef:	1.1E+02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.2E+03		AQUIRE
Salt BCF:	2.1E+04		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	2.2E+04		VER_BCF
Salt BCF:	2.3E+04		VER_BCF
Log Kow:	5.9E+00		RTI_LOGP
Water Solub:	5.0E-03	mg/L	CHEMFATE

OTHER DATA

Melting Point :231.80° C
Boiling Point :325.00° C
Formula :C6 Cl6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Hexachlorobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000118-74-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	5.0E-03
Distrib:	1.1E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.3E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E-03	mg/L
Cancer Risk:	5.3E-05	mg/L
Non Cancer Risk:	2.9E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-01	mg/kg
Non Cancer Risk:	6.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E-03	mg/L
Cancer Risk:	5.3E-05	mg/L
Non Cancer Risk:	2.9E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.0E-03	mg/kg
Non Cancer Risk:	1.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Hexachlorobutadiene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000087-68-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-04	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:	7.8E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:	7.7E-02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	C		IRIS
Oral ED10:	1.7E+00	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	1.7E+00	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:	1.1E+02	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:	3.4E+01	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	9.0E+01	µg/L	AQUIRE
Salt Ecol LC50:	1.6E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.5E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	4.8E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.61E+02
Density:	1.6E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.2E-01	Torr	CHEMFATE
Henry's Law:	8.1E-03	atm-m3/mol	CHEMFATE
Water Solub:	3.2E+00	mg/L	FATE
Distrib Coef:	1.1E+02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.0E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.3E+03		VER_BCF
Salt BCF:			
Log Kow:	4.8E+00		RTI_LOGP
Water Solub:	3.2E+00	mg/L	FATE

OTHER DATA

Melting Point :-21.00° C
Boiling Point :215.00° C
Formula :C4 Cl6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Hexachlorobutadiene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000087-68-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	3.2E+00
Distrib:	1.1E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.1E-04	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-03	mg/L
Non Cancer Risk:	7.3E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.2E+00	mg/kg
Non Cancer Risk:	1.6E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-03	mg/L
Non Cancer Risk:	7.3E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.0E-02	mg/kg
Non Cancer Risk:	2.7E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorocyclohexane, alpha- CAS Number: 000319-84-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	6.3E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	6.3E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	1.8E-02	mg/kg/day	SPHEM
Oral ED10 Wgt:	B2		SPHEM
Inhal ED10:	1.8E-02	mg/kg/day	SPHEM
Inhal ED10 Wgt:	B2		SPHEM
Oral LD50:	7.8E+01	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.0E+03	µg/L	AQUIRE
Salt Ecol LC50:	5.0E+02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.5E-05	Torr	CHEMFATE
Henry's Law:	1.1E-05	atm-m3/mol	CHEMFATE
Water Solub:	2.0E+00	mg/L	CHEMFATE
Distrib Coef:	2.5E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.1E+02	days	FATERATE
Volatility:		days	
Photolysis:		days	
Biodeg:	1.4E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.1E+02	days	FATERATE
Volatility:		days	
Photolysis:		days	
Biodeg:	1.4E+02	days	FATERATE
Radio:		days	
Log Kow:	3.8E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.1E+02		AQUIRE
Salt BCF:	1.6E+02		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	3.5E+02		AQUIRE
Salt BCF:	2.8E+03		AQUIRE
Log Kow:	3.8E+00		RTI_LOGP
Water Solub:	2.0E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C6 H6 Cl6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Hexachlorocyclohexane, alpha-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000319-84-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.0E+00
Distrib:	2.5E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.4E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.4E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.0E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.4E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.0E-04	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorocyclohexane, beta- CAS Number: 000319-85-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.8E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:	1.9E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	C		IRIS
Oral ED10:	5.8E-01	mg/kg/day	SPHEM
Oral ED10 Wgt:	C		SPHEM
Inhal ED10:	5.8E-01	mg/kg/day	SPHEM
Inhal ED10 Wgt:	C		SPHEM
Oral LD50:	6.0E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.91E+02
Density:	1.9E+00 g/mL @ 19.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.7E-07	Torr	CHEMFATE
Henry's Law:	7.4E-07	atm-m3/mol	CHEMFATE
Water Solub:	2.4E-01	mg/L	CHEMFATE
Distrib Coef:	2.5E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.1E+02	days	FATERATE
Volatility:	2.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.2E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.1E+02	days	FATERATE
Volatility:	5.8E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.2E+02	days	FATERATE
Radio:		days	
Log Kow:	3.8E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.9E+02		AQUIRE
Salt BCF:	1.3E+02		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	2.9E+02		AQUIRE
Salt BCF:	1.0E+03		AQUIRE
Log Kow:	3.8E+00		RTI_LOGP
Water Solub:	2.4E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :60.00° C @ 0.50 Torr
Formula :C6 H6 Cl6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Hexachlorocyclohexane, beta-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000319-85-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.4E-01
Distrib:	2.5E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	4.6E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.7E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	3.6E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.7E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.8E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Hexachlorocyclohexane, delta- CAS Number: 000319-86-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.91E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.5E-05	Torr	CHEMFATE
Henry's Law:	4.3E-07	atm-m3/mol	CHEMFATE
Water Solub:	3.1E+01	mg/L	CHEMFATE
Distrib Coef:	4.6E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.1E+02	days	FATERATE
Volatility:	2.6E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.0E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.1E+02	days	FATERATE
Volatility:	9.9E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.0E+02	days	FATERATE
Radio:		days	
Log Kow:	4.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.8E+02		AQUIRE
Salt BCF:	2.7E+02		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	2.8E+02		AQUIRE
Salt BCF:	6.5E+02		AQUIRE
Log Kow:	4.1E+00		RTI_LOGP
Water Solub:	3.1E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :141.50° C
Boiling Point :60.00° C @ 0.36 Torr
Formula :C6 H6 Cl6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	3.1E+01
Distrib:	4.6E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Hexachlorocyclopentadiene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000077-47-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	7.0E-03	mg/kg/day	IRIS
Inhal RfD:	2.0E-05	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.1E+02	mg/kg	RTECS
Dermal LD50:	4.3E+02	mg/kg	RTECS
Gas Inhal LC50:	1.4E+00	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.0E+00	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.0E+01	days	FATE
Volatility:	1.5E+02	days	THOMAS
Photolysis:	7.4E-03	days	FATERATE
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.0E+01	days	FATE
Volatility:	1.6E+00	days	THOMAS
Photolysis:	7.4E-03	days	FATERATE
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	5.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.73E+02
Density:	1.7E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.0E-02	Torr	LIVECHEM
Henry's Law:	2.7E-02	atm-m3/mol	FATE
Water Solub:	1.8E+00	mg/L	FATE
Distrib Coef:	4.0E+02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.9E+01		AQUIRE
Salt BCF:			
Log Kow:	5.4E+00		RTI_LOGP
Water Solub:	1.8E+00	mg/L	FATE

OTHER DATA

Melting Point :
Boiling Point :239.00° C
Formula :C5 Cl6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Hexachlorocyclopentadiene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000077-47-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.2000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.8E+00
Distrib:	4.0E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	7.3E-05	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.6E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	5.5E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.6E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	9.5E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Hexachloroethane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000067-72-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.4E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:	1.4E-02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	C		IRIS
Oral ED10:	1.3E+01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	1.3E+01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:	4.5E+03	mg/kg	C_EENV
Dermal LD50:	3.2E+04	mg/kg	ACGIH
Gas Inhal LC50:	5.9E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.6E+02	µg/L	AQUIRE
Salt Ecol LC50:	2.4E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	6.6E+11	days	FATE
Volatility:	1.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	6.6E+11	days	FATE
Volatility:	1.5E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	4.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.37E+02
Density:	2.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.1E-01	Torr	CHEMFATE
Henry's Law:	3.9E-03	atm-m3/mol	CHEMFATE
Water Solub:	5.0E+01	mg/L	CHEMFATE
Distrib Coef:	3.6E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.4E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.4E+02		VER_BCF
Salt BCF:			
Log Kow:	4.0E+00		RTI_LOGP
Water Solub:	5.0E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :187.00° C
Boiling Point :187.00° C
Formula :C2 Cl6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	5.0E+01
Distrib:	3.6E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	6.1E-04	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	6.1E-03	mg/L
Non Cancer Risk:	3.7E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.6E+01	mg/kg
Non Cancer Risk:	7.8E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	6.1E-03	mg/L
Non Cancer Risk:	3.7E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.3E-01	mg/kg
Non Cancer Risk:	1.4E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.0E+01	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.1E+01	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.07E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.5E-10	Torr	CHEMFATE
Henry's Law:	5.5E-13	atm-m3/mol	CHEMFATE
Water Solub:	1.4E+02	mg/L	CHEMFATE
Distrib Coef:	9.2E+03	ml/g	RTI_ION
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	3.3E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	3.3E+02	days	FATERATE
Radio:		days	
Log Kow:	7.5E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	7.5E+00		RTI_LOGP
Water Solub:	1.4E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :166.50° C
Boiling Point :
Formula :C13 H6 Cl6 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Hexachlorophene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000070-30-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.4E+02
Distrib:	9.2E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Hexane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000110-54-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-02	mg/kg/day	HEAST
Inhal RfD:	5.7E-02	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.9E+04	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:	3.5E+04	ppm	ACGIH
Dust Inhal LC50:	1.2E+02	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.5E+03	µg/L	AQUIRE
Salt Ecol LC50:	3.5E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	8.2E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.8E-01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	4.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.62E+01
Density:	6.5E-01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.5E+02	Torr	CHEMFATE
Henry's Law:	1.4E-02	atm-m3/mol	CHEMEST
Water Solub:	1.2E+01	mg/L	CHEMFATE
Distrib Coef:	1.7E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.0E+00		RTI_LOGP
Water Solub:	1.2E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :-95.30° C
Boiling Point :68.70° C
Formula :C6 H14

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Hexane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000110-54-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.2E+01
Distrib:	1.7E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	4.7E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	8.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Hexanone, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000591-78-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.6E+03	mg/kg	ACGIH
Dermal LD50:	4.8E+03	mg/kg	RTECS
Gas Inhal LC50:	2.0E+04	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.3E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.00E+02
Density:	8.1E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.2E+01	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:	1.8E+04	mg/L	CHEMFATE
Distrib Coef:	4.7E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.4E+00		RTI_LOGP
Water Solub:	1.8E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-55.50° C
Boiling Point :127.60° C
Formula :C6 H12 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Hexanone, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000591-78-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.8E+04
Distrib:	4.7E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.0E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	1.7E+01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	9.3E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	9.3E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	6.0E+01	mg/kg	ACGIH
Dermal LD50:	9.3E+01	mg/kg	ACGIH
Gas Inhal LC50:	5.7E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.0E+01	µg/L	AQUIRE
Salt Ecol LC50:	3.4E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.21E+01
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E+01	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	1.8E-05	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	-2.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-2.1E+00		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :2.00° C
Boiling Point :113.50° C
Formula :H4 N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Hydrazine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000302-01-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.0E+06
Distrib:	1.8E-05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.0E-07	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.8E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.1E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.8E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.1E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Hydrochloric acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007647-01-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	5.7E-03	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	9.0E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.1E+03	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.8E+05	µg/L	AQUIRE
Salt Ecol LC50:	2.4E+05	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.65E+01
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.5E+04	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :H Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-02	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Hydrogen cyanide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000074-90-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:	8.6E-04	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.7E+00	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:	3.2E+02	ppm	ACGIH
Dust Inhal LC50:	8.5E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+02	µg/L	AQUIRE
Salt Ecol LC50:	6.9E+01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	3.3E-01	days	THOMAS
Photolysis:		days	
Biodeg:	1.7E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.3E-01	days	THOMAS
Photolysis:		days	
Biodeg:	1.7E+02	days	FATERATE
Radio:		days	
Log Kow:	-2.5E-01		CHEMFATE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.70E+01
Density:	6.9E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.4E+02	Torr	CHEMFATE
Henry's Law:	1.3E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-2.5E-01		CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-13.40° C
Boiling Point :26.00° C
Formula :C H N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Hydrogen cyanide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000074-90-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.0E+06
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0700
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	10000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	3.1E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-03	mg/kg/day	IRIS
Inhal RfD:	2.9E-04	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	5.0E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	2.0E+00	µg/L	WATCRIT
Salt AWQC:	2.0E+00	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.0E+00	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.41E+01
Density:	1.5E-03 g/mL @ 0.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.6E+04	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:	4.1E+03	mg/L	LIVECHEM
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	4.1E+03	mg/L	LIVECHEM

OTHER DATA

Melting Point :-85.50° C
Boiling Point :-60.70° C
Formula :H2 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	4.1E+03
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.0E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	2.0E+00	µg/L
Salt AWQC:	2.0E+00	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Indeno(1,2,3-cd)pyrene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000193-39-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	7.3E-01	(mg/kg/day)^-1	LIVECHEM
Oral Wt-of-Evid:	B2		LIVECHEM
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.76E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.0E-10	Torr	CHEMFATE
Henry's Law:	1.6E-06	atm-m3/mol	CHEMFATE
Water Solub:	2.2E-05	mg/L	CHEMFATE
Distrib Coef:	6.9E+03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.7E+02	days	THOMAS
Photolysis:	2.5E+02	days	FATERATE
Biodeg:	7.3E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.7E+01	days	THOMAS
Photolysis:	2.5E+02	days	FATERATE
Biodeg:	7.3E+02	days	FATERATE
Radio:		days	
Log Kow:	6.7E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.7E+00		RTI_LOGP
Water Solub:	2.2E-05	mg/L	CHEMFATE

OTHER DATA

Melting Point :161.50° C
Boiling Point :536.00° C
Formula :C22 H12

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Indeno(1,2,3-cd)pyrene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000193-39-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.2E-05
Distrib:	6.9E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.8E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.3E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Ioxynil

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001689-83-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.5E+01	mg/kg	RTECS
Dermal LD50:	2.1E-01	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.0E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.5E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.5E+00		CHEMEST

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.71E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.8E-11	Torr	CHEMEST
Henry's Law:	7.4E-12	atm-m3/mol	CHEMEST
Water Solub:	8.9E+00	mg/L	CHEMCALC
Distrib Coef:	5.6E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.5E+00		CHEMEST
Water Solub:	8.9E+00	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C7 H3 I2 N O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Ioxynil

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001689-83-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	8.9E+00
Distrib:	5.6E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Iron

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007439-89-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.0E+04	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.0E+03	µg/L	WATCRIT
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.58E+01
Density:	7.9E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	2.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	1.5E+03	mg/L	WEAST

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	1.5E+03	mg/L	

OTHER DATA

Melting Point :1535.00° C
Boiling Point :2750.00° C
Formula :Fe

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Iron

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007439-89-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.5E+03
Distrib:	2.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

* BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.0E+03	µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Iron 55 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014681-59-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.5E-13	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	5.6E-13	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	5.49E+01
Density:	7.9E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	2.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	1.5E+03	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	9.9E+02	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	9.9E+02	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	1.5E+03	mg/L	

OTHER DATA

Melting Point :1535.00° C
Boiling Point :2750.00° C
Formula :Fe-55

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Iron
Other:	Iron

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Iron 55 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014681-59-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.5E+03
Distrib:	2.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	8.5E+00	pCi/m3
DW:	1.4E+02	pCi/L
FC:	5.0E+03	pCi/kg
Soil Ing:	2.3E+06	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Isobutanol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000078-83-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.8E+03	mg/kg	ACGIH
Dermal LD50:	4.2E+03	mg/kg	ACGIH
Gas Inhal LC50:	8.0E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.8E+04	µg/L	AQUIRE
Salt Ecol LC50:	6.0E+05	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	7.8E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.2E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.6E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.2E+00	days	FATERATE
Radio:		days	
Log Kow:	7.5E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.41E+01
Density:	8.0E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.0E+01	Torr	CHEMFATE
Henry's Law:	1.2E-05	atm-m3/mol	CHEMFATE
Water Solub:	8.5E+04	mg/L	CHEMFATE
Distrib Coef:	1.1E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	7.5E-01		RTI_LOGP
Water Solub:	8.5E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-108.00° C
Boiling Point :107.80° C
Formula :C4 H10 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	8.5E+04
Distrib:	1.1E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Isophorone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000078-59-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	9.5E-04	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.1E+03	mg/kg	ACGIH
Dermal LD50:	1.5E+03	mg/kg	C_EENV
Gas Inhal LC50:	8.9E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+05	µg/L	AQUIRE
Salt Ecol LC50:	1.4E+05	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	5.5E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.38E+02
Density:	9.3E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.4E-01	Torr	CHEMFATE
Henry's Law:	6.6E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+04	mg/L	CHEMFATE
Distrib Coef:	9.4E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	7.0E+00		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	7.0E+00		VER_BCF
Salt BCF:			
Log Kow:	1.7E+00		RTI_LOGP
Water Solub:	1.2E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-8.10° C
Boiling Point :215.20° C
Formula :C9 H14 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Isophorone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000078-59-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.2E+04
Distrib:	9.4E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	9.0E-02	mg/L
Non Cancer Risk:	7.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	6.7E+02	mg/kg
Non Cancer Risk:	1.6E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	9.0E-02	mg/L
Non Cancer Risk:	7.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.3E+00	mg/kg
Non Cancer Risk:	2.7E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Kepone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000143-50-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	2.1E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	2.1E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	6.5E+01	mg/kg	RTECS
Dermal LD50:	3.5E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.8E+01	µg/L	AQUIRE
Salt Ecol LC50:	6.6E+00	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.91E+02
Density:	1.6E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E-07	Torr	CHEMFATE
Henry's Law:	2.5E-08	atm-m3/mol	CHEMFATE
Water Solub:	7.6E+00	mg/L	CHEMFATE
Distrib Coef:	3.2E+02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.1E+04		AQUIRE
Salt BCF:	6.0E+04		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	1.1E+04		AQUIRE
Salt BCF:	6.0E+04		AQUIRE
Log Kow:	5.3E+00		RTI_LOGP
Water Solub:	7.6E+00	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.2E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.2E+02	days	FATERATE
Radio:		days	
Log Kow:	5.3E+00		RTI_LOGP

OTHER DATA

Melting Point :
Boiling Point :
Formula :C10 Cl10 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	7.6E+00
Distrib:	3.2E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	3.0E-01	ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Lead

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007439-92-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	8.2E+01	µg/L	WATCRIT
Salt AWQC:	2.2E+02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	3.2E+00	µg/L	WATCRIT
Salt AWQC:	8.5E+00	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.3E+02	µg/L	AQUIRE
Salt Ecol LC50:	3.1E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.07E+02
Density:	1.1E+01 g/mL @ 16.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.0E+02	ml/g	BAES_KD
Geo. Mean Sol.:	1.5E-01	mg/L	WEAST; LANGE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	4.5E+01		VER_BCF
Salt BCF:	2.6E+03		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.7E+03		VER_BCF
Salt BCF:	2.6E+03		VER_BCF
Log Kow:			
Water Solub:	1.5E-01	mg/L	

OTHER DATA

Melting Point :328.00° C
Boiling Point :1740.00° C
Formula :Pb

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Lead

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007439-92-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.5E-01
Distrib:	9.0E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:	1.5E+00	µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.5E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.5E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	8.2E+01	µg/L
Salt AWQC:	2.2E+02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	3.2E+00	µg/L
Salt AWQC:	8.5E+00	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Lead 210(+D) (radionuclide) CAS Number: 014255-04-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.0E-09	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	3.9E-09	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.10E+02
Density:	1.1E+01 g/mL @ 16.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.0E+02	ml/g	BAES_KD
Geo. Mean Sol.:	1.5E-01	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	8.1E+03	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	8.1E+03	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	4.5E+01		VER_BCF
Salt BCF:	2.6E+03		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.7E+03		VER_BCF
Salt BCF:	2.6E+03		VER_BCF
Log Kow:			
Water Solub:	1.5E-01	mg/L	

OTHER DATA

Melting Point :328.00° C
Boiling Point :1740.00° C
Formula :Pb-210(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Lead
Other:	Lead

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Lead 210(+D) (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014255-04-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.5E-01
Distrib:	9.0E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.2E-03	pCi/m3
DW:	4.7E-02	pCi/L
FC:	1.7E+00	pCi/kg
Soil Ing:	7.9E+02	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Lindane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000058-89-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.3E+00	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	5.5E-01	mg/kg/day	SPHEM
Oral ED10 Wgt:	B2		SPHEM
Inhal ED10:	5.5E-01	mg/kg/day	SPHEM
Inhal ED10 Wgt:	B2		SPHEM
Oral LD50:	4.0E+01	mg/kg	C_EENV
Dermal LD50:	3.0E+02	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	2.0E+00	µg/L	WATCRIT
Salt AWQC:	1.6E-01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	8.0E-02	µg/L	WATCRIT
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.1E+00	µg/L	AQUIRE
Salt Ecol LC50:	1.7E-01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.3E+03	days	FATE
Volatility:	1.5E+02	days	THOMAS
Photolysis:		days	
Biodeg:	4.1E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.3E+03	days	FATE
Volatility:	4.6E+00	days	THOMAS
Photolysis:		days	
Biodeg:	4.1E+02	days	FATERATE
Radio:		days	
Log Kow:	3.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.91E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.1E-04	Torr	CHEMFATE
Henry's Law:	1.4E-05	atm-m3/mol	CHEMFATE
Water Solub:	6.8E+00	mg/L	LIVECHEM
Distrib Coef:	2.1E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.1E+02		VER_BCF
Salt BCF:	2.9E+02		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	3.1E+02		VER_BCF
Salt BCF:	7.3E+02		AQUIRE
Log Kow:	3.7E+00		RTI_LOGP
Water Solub:	6.8E+00	mg/L	LIVECHEM

OTHER DATA

Melting Point :112.50° C
Boiling Point :323.40° C
Formula :C6 H6 Cl6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Lindane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000058-89-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.8E+00
Distrib:	2.1E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-04	mg/L
Cancer Risk:	6.6E-05	mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.9E-01	mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-04	mg/L
Cancer Risk:	6.6E-05	mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.4E-03	mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	2.0E+00	µg/L
Salt AWQC:	1.6E-01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	8.0E-02	µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.43E+01
Density:	1.7E+00 g/mL @ 5.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+00	ml/g	BAES_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :649.00° C
Boiling Point :1110.00° C
Formula :Mg

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Magnesium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007439-95-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	
Distrib:	4.5E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+03	mg/kg	ACGIH
Dermal LD50:	4.4E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.0E-01	µg/L	WATCRIT
Salt AWQC:	1.0E-01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.7E-01	µg/L	AQUIRE
Salt Ecol LC50:	1.4E+00	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.30E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.9E-06	Torr	CHEMFATE
Henry's Law:	4.9E-09	atm-m3/mol	CHEMFATE
Water Solub:	1.4E+02	mg/L	CHEMFATE
Distrib Coef:	1.3E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.2E+01	days	FATE
Volatility:	**	days	
Photolysis:	8.3E+02	days	FATERATE
Biodeg:	5.2E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.2E+01	days	FATE
Volatility:	**	days	
Photolysis:	8.3E+02	days	FATERATE
Biodeg:	5.2E+01	days	FATERATE
Radio:		days	
Log Kow:	2.9E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.1E+01		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	3.8E+01		AQUIRE
Salt BCF:			
Log Kow:	2.9E+00		RTI_LOGP
Water Solub:	1.4E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :2.80° C
Boiling Point :156.00° C @ 0.70 Torr
Formula :C10 H19 O6 P S2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Malathion

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000121-75-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.4E+02
Distrib:	1.3E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.0E-01	µg/L
Salt AWQC:	1.0E-01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Maleic anhydride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-31-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.0E+02	mg/kg	C_EENV
Dermal LD50:	2.0E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.4E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.0E-04	days	CHEMFATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.0E-04	days	CHEMFATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.81E+01
Density:	1.3E+00 g/mL @ 60.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.5E-01	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :52.80° C
Boiling Point :202.00° C
Formula :C4 H2 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Maleic anhydride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-31-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.0007
Lake:	0.0007

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.0007
Lake:	0.0007
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.0007
Lake:	0.0007
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Maleic hydrazide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000123-33-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.8E+03	mg/kg	RTECS
Dermal LD50:	4.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.0E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.5E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.12E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.7E+04	Torr	CHEMEST
Henry's Law:	6.6E-03	atm-m3/mol	CHEMEST
Water Solub:	6.0E+03	mg/L	CHEMFATE
Distrib Coef:	3.8E-04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	-7.4E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-7.4E-01		RTI_LOGP
Water Solub:	6.0E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :300.00° C
Boiling Point :
Formula :C4 H4 N2 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	6.0E+03
Distrib:	3.8E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Manganese

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007439-96-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.4E-01	mg/kg/day	IRIS
Inhal RfD:	1.4E-05	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.49E+01
Density:	7.2E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	6.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	4.5E+03	mg/L	WEAST

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	2.4E+06		AQUIRE
Log Kow:			
Water Solub:	4.5E+03	mg/L	

OTHER DATA

Melting Point :1244.00° C
Boiling Point :1962.00° C
Formula :Mn

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	4.5E+03
Distrib:	6.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	5.2E-05	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	5.1E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	5.1E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.9E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.0E-12	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	3.7E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	5.39E+01
Density:	7.2E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	6.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	4.5E+03	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	3.1E+02	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	3.1E+02	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	2.4E+06		AQUIRE
Log Kow:			
Water Solub:	4.5E+03	mg/L	

OTHER DATA

Melting Point :1244.00° C
Boiling Point :1962.00° C
Formula :Mn-54

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Manganese
Other:	Manganese

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Manganese 54 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013966-31-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	4.5E+03
Distrib:	6.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.3E+00	pCi/m3
DW:	2.4E+01	pCi/L
FC:	9.0E+02	pCi/kg
Soil Ing:	4.1E+05	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Mercury

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007439-97-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:	8.6E-05	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	2.4E+00	µg/L	WATCRIT
Salt AWQC:	2.1E+00	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.2E-02	µg/L	WATCRIT
Salt AWQC:	2.5E-02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.8E+00	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.01E+02
Density:	1.4E+01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E-03	Torr	CHEMFATE
Henry's Law:	1.1E-02	atm-m3/mol	LIVECHEM
Water Solub:		mg/L	
Distrib Coef:	5.2E+01	ml/g	SSG_KD
Geo. Mean Sol.:	7.7E-08	mg/L	WEAST; LANGE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	8.6E+04		VER_BCF
Salt BCF:	4.0E+04		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	8.6E+04		VER_BCF
Salt BCF:	4.0E+04		VER_BCF
Log Kow:			
Water Solub:	7.7E-08	mg/L	

OTHER DATA

Melting Point :-38.87° C
Boiling Point :356.72° C
Formula :Hg

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Mercury

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007439-97-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.2000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	7.7E-08
Distrib:	5.2E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	3.1E-04	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-03	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-03	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	1.0E+00	ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	2.4E+00	µg/L
Salt AWQC:	2.1E+00	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.2E-02	µg/L
Salt AWQC:	2.5E-02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Methacrylonitrile

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000126-98-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-04	mg/kg/day	IRIS
Inhal RfD:	1.0E-03	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.7E+01	mg/kg	RTECS
Dermal LD50:	3.2E+02	mg/kg	RTECS
Gas Inhal LC50:	3.6E+01	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	6.71E+01
Density:	8.0E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.1E+01	Torr	CHEMFATE
Henry's Law:	2.5E-04	atm-m3/mol	CHEMFATE
Water Solub:	2.5E+04	mg/L	CHEMFATE
Distrib Coef:	6.8E-03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	7.2E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.6E-01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	5.4E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	5.4E-01		RTI_LOGP
Water Solub:	2.5E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-35.80° C
Boiling Point :90.30° C
Formula :C4 H5 N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Methacrylonitrile

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000126-98-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.5E+04
Distrib:	6.8E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	3.7E-03	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Methanol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000067-56-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.0E+02	mg/kg	ACGIH
Dermal LD50:	1.6E+04	mg/kg	RTECS
Gas Inhal LC50:	6.4E+04	ppm	RTECS
Dust Inhal LC50:	4.4E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.7E+04	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+06	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	7.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	7.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	-7.1E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.20E+01
Density:	7.9E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.3E+02	Torr	CHEMFATE
Henry's Law:	4.5E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	4.0E-04	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-7.1E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-97.60° C
Boiling Point :64.60° C
Formula :C H4 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Methanol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000067-56-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.0E+06
Distrib:	4.0E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Methomyl

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 016752-77-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.5E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.2E+01	mg/kg	ACGIH
Dermal LD50:	5.6E+02	mg/kg	ACGIH
Gas Inhal LC50:	7.7E+01	ppm	RTECS
Dust Inhal LC50:	3.0E-01	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.9E+01	µg/L	AQUIRE
Salt Ecol LC50:	3.0E+01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.5E+02	days	FATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.5E+02	days	FATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.4E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.62E+02
Density:	1.3E+00 g/mL @ 24.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E+04	Torr	CHEMEST
Henry's Law:	3.8E-02	atm-m3/mol	CHEMEST
Water Solub:	5.8E+04	mg/L	LIVECHEM
Distrib Coef:	4.3E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.4E-01		RTI_LOGP
Water Solub:	5.8E+04	mg/L	LIVECHEM

OTHER DATA

Melting Point :78.00° C
Boiling Point :
Formula :C5 H10 N2 O2 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	5.8E+04
Distrib:	4.3E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	9.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.0E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	9.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	3.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Methoxychlor

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000072-43-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+03	mg/kg	C_EENV
Dermal LD50:	6.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	3.0E-02	µg/L	WATCRIT
Salt AWQC:	3.0E-02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E-01	µg/L	AQUIRE
Salt Ecol LC50:	3.3E+00	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.46E+02
Density:	1.4E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.0E-07	Torr	CHEMFATE
Henry's Law:	1.6E-05	atm-m3/mol	CHEMFATE
Water Solub:	4.5E-02	mg/L	LIVECHEM
Distrib Coef:	2.0E+02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	7.1E+04		AQUIRE
Salt BCF:	2.7E+03		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	7.1E+04		AQUIRE
Salt BCF:	5.4E+03		AQUIRE
Log Kow:	5.1E+00		RTI_LOGP
Water Solub:	4.5E-02	mg/L	LIVECHEM

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.6E+01	days	FATE
Volatility:	1.7E+02	days	THOMAS
Photolysis:	8.6E+01	days	FATERATE
Biodeg:	3.7E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.6E+01	days	FATE
Volatility:	4.6E+00	days	THOMAS
Photolysis:	8.6E+01	days	FATERATE
Biodeg:	3.7E+02	days	FATERATE
Radio:		days	
Log Kow:	5.1E+00		RTI_LOGP

OTHER DATA

Melting Point :87.00° C
Boiling Point :
Formula :C16 H15 Cl3 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Methoxychlor

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000072-43-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	4.5E-02
Distrib:	2.0E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	4.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	4.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	3.0E-02	µg/L
Salt AWQC:	3.0E-02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Methyl chlorocarbonate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000079-22-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:	7.1E+03	mg/kg	RTECS
Gas Inhal LC50:	8.8E+01	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.45E+01
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E+02	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :70.50° C
Formula :C2 H3 Cl O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Methyl chlorocarbonate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000079-22-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Methyl ethyl ketone CAS Number: 000078-93-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-01	mg/kg/day	IRIS
Inhal RfD:	2.9E-01	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.7E+03	mg/kg	C_EENV
Dermal LD50:	6.5E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.4E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.2E+05	µg/L	AQUIRE
Salt Ecol LC50:	4.0E+05	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.8E+04	days	FATERATE
Volatility:	7.5E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.8E+04	days	FATERATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	2.8E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.21E+01
Density:	8.1E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.5E+01	Torr	CHEMFATE
Henry's Law:	5.6E-05	atm-m3/mol	CHEMFATE
Water Solub:	2.2E+05	mg/L	CHEMFATE
Distrib Coef:	3.8E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.8E-01		RTI_LOGP
Water Solub:	2.2E+05	mg/L	CHEMFATE

OTHER DATA

Melting Point :-86.60° C
Boiling Point :79.50° C
Formula :C4 H8 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Methyl ethyl ketone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000078-93-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	2.2E+05
Distrib:	3.8E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.0E+00	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	4.7E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	8.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Methyl isobutyl ketone

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-10-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-02	mg/kg/day	HEAST
Inhal RfD:	2.3E-02	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.6E+03	mg/kg	C_EENV
Dermal LD50:	2.0E+04	mg/kg	RTECS
Gas Inhal LC50:	4.0E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.6E+05	µg/L	AQUIRE
Salt Ecol LC50:	1.2E+06	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	8.8E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	1.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.00E+02
Density:	8.0E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E+01	Torr	CHEMFATE
Henry's Law:	1.4E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.9E+04	mg/L	CHEMFATE
Distrib Coef:	3.0E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.2E+00		RTI_LOGP
Water Solub:	1.9E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-84.00° C
Boiling Point :116.50° C
Formula :C6 H12 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.9E+04
Distrib:	3.0E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	8.3E-02	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	6.3E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Methyl methacrylate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000080-62-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-02	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.2E+03	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:	4.7E+01	ppm	ACGIH
Dust Inhal LC50:	1.8E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.3E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.4E+03	days	FATE
Volatility:	8.8E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.4E+03	days	FATE
Volatility:	1.0E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.00E+02
Density:	9.4E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.8E+01	Torr	CHEMFATE
Henry's Law:	3.4E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.5E+04	mg/L	CHEMFATE
Distrib Coef:	4.5E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.4E+00		RTI_LOGP
Water Solub:	1.5E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-48.00° C
Boiling Point :100.50° C
Formula :C5 H8 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Methyl methacrylate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000080-62-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.5E+04
Distrib:	4.5E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	6.3E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Methylcholanthrene, 3- CAS Number: 000056-49-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	3.9E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	3.9E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.68E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.7E-09	Torr	CHEMFATE
Henry's Law:	9.4E-07	atm-m3/mol	CHEMFATE
Water Solub:	3.2E-03	mg/L	FATE
Distrib Coef:	4.1E+03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.9E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.4E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	4.4E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.4E+03	days	FATERATE
Radio:		days	
Log Kow:	6.4E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.3E+01		AQUIRE
Log Kow:	6.4E+00		RTI_LOGP
Water Solub:	3.2E-03	mg/L	FATE

OTHER DATA

Melting Point :180.00° C
Boiling Point :280.00° C @ 80.00 Torr
Formula :C21 H16

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Methylcholanthrene, 3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000056-49-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0002
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	3.2E-03
Distrib:	4.1E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	7.0E-04	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:	1.3E-01	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.3E-01	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:	6.6E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	6.6E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	7.5E+02	mg/kg	ACGIH
Dermal LD50:	5.0E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.67E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.3E-08	Torr	CHEMFATE
Henry's Law:	4.1E-11	atm-m3/mol	CHEMFATE
Water Solub:	1.4E+01	mg/L	CHEMFATE
Distrib Coef:	4.5E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.7E+05	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.7E+05	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	1.4E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.4E+00		RTI_LOGP
Water Solub:	1.4E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C13 H12 Cl2 N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Methylene bis (2-chloroaniline), 4,4- CAS Number: 000101-14-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0002
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.4E+01
Distrib:	4.5E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	6.6E-05	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	6.6E-04	mg/L
Non Cancer Risk:	2.6E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.9E+00	mg/kg
Non Cancer Risk:	5.5E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	6.6E-04	mg/L
Non Cancer Risk:	2.6E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.4E-02	mg/kg
Non Cancer Risk:	9.5E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Methylene bromide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000074-95-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.1E+02	mg/kg	RTECS
Dermal LD50:	4.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.74E+02
Density:	2.5E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.4E+01	Torr	CHEMFATE
Henry's Law:	8.6E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+04	mg/L	CHEMFATE
Distrib Coef:	4.6E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	6.7E+04	days	FATERATE
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	6.7E+04	days	FATERATE
Volatility:	1.3E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.6E+00		RTI_LOGP
Water Solub:	1.2E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-52.50° C
Boiling Point :97.00° C
Formula :C H2 Br2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Methylene bromide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000074-95-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.2E+04
Distrib:	4.6E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UNTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
OW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Methylene chloride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-09-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-02	mg/kg/day	IRIS
Inhal RfD:	8.6E-01	mg/kg/day	HEAST
Oral Slope:	7.5E-03	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	1.6E-03	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.6E+03	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.5E+04	ppm	ACGIH
Dust Inhal LC50:	8.8E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.9E+05	µg/L	AQUIRE
Salt Ecol LC50:	9.7E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.6E+05	days	FATERATE
Volatility:	8.1E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.6E+05	days	FATERATE
Volatility:	8.8E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.3E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.49E+01
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.3E+02	Torr	CHEMFATE
Henry's Law:	2.2E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.3E+04	mg/L	CHEMFATE
Distrib Coef:	2.4E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.3E+00		RTI_LOGP
Water Solub:	1.3E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-95.10° C
Boiling Point :40.00° C
Formula :C H2 Cl2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.3E+04
Distrib:	2.4E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.2E-03	mg/m3
Non Cancer Risk:	3.1E+00	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	1.1E-02	mg/L
Non Cancer Risk:	2.2E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.5E+01	mg/kg
Non Cancer Risk:	4.7E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	1.1E-02	mg/L
Non Cancer Risk:	2.2E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.2E-01	mg/kg
Non Cancer Risk:	8.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Methylenediphenyl diisocyanate, 4,4- CAS Number: 000101-68-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	5.7E-06	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.2E+04	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.5E-01	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	5.0E-01	days	FATERATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	5.0E-01	days	FATERATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.50E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.6E-07	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :C15 H10 N2 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Methylenediphenyl diisocyanate, 4,4- CAS Number: 000101-68-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0700
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-05	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Methylnaphthalene, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000091-57-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:	6.0E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.0E+02	days	THOMAS
Photolysis:	2.3E+00	days	CHEMFATE
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+00	days	THOMAS
Photolysis:	2.3E+00	days	CHEMFATE
Biodeg:		days	
Radio:		days	
Log Kow:	3.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.42E+02
Density:	1.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.5E-02	Torr	CHEMFATE
Henry's Law:	5.2E-04	atm-m3/mol	CHEMFATE
Water Solub:	2.5E+01	mg/L	CHEMFATE
Distrib Coef:	1.5E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.6E+03		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.6E+03		AQUIRE
Salt BCF:			
Log Kow:	3.9E+00		RTI_LOGP
Water Solub:	2.5E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :34.40° C
Boiling Point :241.10° C
Formula :C11 H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Methylnaphthalene, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000091-57-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	2.5E+01
Distrib:	1.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.5E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.5E+02	mg/kg	ACGIH
Dermal LD50:	2.0E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.0E+01	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.4E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.14E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.0E+03	Torr	CHEMEST
Henry's Law:	8.8E-02	atm-m3/mol	CHEMEST
Water Solub:	1.2E+03	mg/L	LIVECHEM
Distrib Coef:	9.4E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.7E+00		RTI_LOGP
Water Solub:	1.2E+03	mg/L	LIVECHEM

OTHER DATA

Melting Point :126.00° C
Boiling Point :
Formula :C8 H14 N4 O S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.2E+03
Distrib:	9.4E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	9.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.0E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	9.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	3.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Mirex

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 002385-85-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.3E+02	mg/kg	RTECS
Dermal LD50:	8.0E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.0E-03	µg/L	WATCRIT
Salt AWQC:	1.0E-03	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+02	µg/L	AQUIRE
Salt Ecol LC50:	5.6E+04	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.46E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	6.8E-03	mg/L	CHEMCALC
Distrib Coef:	1.2E+04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	6.9E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.5E+03		VER_BCF
Salt BCF:	1.6E+04		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	2.8E+04		VER_BCF
Salt BCF:	1.6E+04		VER_BCF
Log Kow:	6.9E+00		RTI_LOGP
Water Solub:	6.8E-03	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C10 Cl12

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Mirex

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 002385-85-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.8E-03
Distrib:	1.2E+04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:	1.0E-01	ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.0E-03	µg/L
Salt AWQC:	1.0E-03	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Molybdenum

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007439-98-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.2E+02	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.59E+01
Density:	1.0E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	2.0E+01	ml/g	BAES_KD
Geo. Mean Sol.:	7.6E+03	mg/L	LIDE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	7.6E+03	mg/L	

OTHER DATA

Melting Point :2610.00° C
Boiling Point :5560.00° C
Formula :Mo

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Molybdenum

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007439-98-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	7.6E+03
Distrib:	2.0E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: N-nitroso-di-n-propylamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000621-64-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	7.0E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.8E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.30E+02
Density:	9.2E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.3E-01	Torr	CHEMFATE
Henry's Law:	2.3E-06	atm-m3/mol	CHEMFATE
Water Solub:	9.9E+03	mg/L	CHEMFATE
Distrib Coef:	4.8E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:	4.2E-02	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+01	days	THOMAS
Photolysis:	4.2E-02	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	1.4E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.4E+00		RTI_LOGP
Water Solub:	9.9E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :206.00° C
Formula :C6 H14 N2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: N-nitroso-di-n-propylamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000621-64-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	9.9E+03
Distrib:	4.8E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	9.1E-02	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.5E-04	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: N-nitrosopiperidine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-75-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	2.7E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	2.7E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.0E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	5.0E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.14E+02
Density:	1.1E+00 g/mL @ 18.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E-01	Torr	CHEMFATE
Henry's Law:	2.8E-07	atm-m3/mol	CHEMFATE
Water Solub:	7.6E+04	mg/L	CHEMFATE
Distrib Coef:	8.3E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.3E-01		RTI_LOGP
Water Solub:	7.6E+04	mg/L	CHEMFATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.0E+02	days	THOMAS
Photolysis:	9.4E+00	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.5E+01	days	THOMAS
Photolysis:	9.4E+00	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	6.3E-01		RTI_LOGP

OTHER DATA

Melting Point :
Boiling Point :219.00° C
Formula :C5 H10 N2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: N-nitrosopiperidine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-75-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	7.6E+04
Distrib:	8.3E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Naphthalene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000091-20-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-02	mg/kg/day	LIVECHEM
Inhal RfD:	4.0E-02	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.3E+02	mg/kg	C_EENV
Dermal LD50:	2.5E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+03	µg/L	AQUIRE
Salt Ecol LC50:	8.5E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	10.0E+01	days	THOMAS
Photolysis:	5.5E+02	days	FATERATE
Biodeg:	2.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+00	days	THOMAS
Photolysis:	5.5E+02	days	FATERATE
Biodeg:	2.0E+01	days	FATERATE
Radio:		days	
Log Kow:	3.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.28E+02
Density:	1.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.5E-02	Torr	CHEMFATE
Henry's Law:	4.8E-04	atm-m3/mol	CHEMFATE
Water Solub:	3.1E+01	mg/L	CHEMFATE
Distrib Coef:	4.0E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.1E+02		VER_BCF
Salt BCF:	6.0E+00		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	3.1E+02		VER_BCF
Salt BCF:	5.0E+03		VER_BCF
Log Kow:	3.4E+00		RTI_LOGP
Water Solub:	3.1E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :80.20° C
Boiling Point :217.90° C
Formula :C10 H8

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Naphthalene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000091-20-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.1E+01
Distrib:	4.0E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.5E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.1E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.5E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	5.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Naphthylamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000091-59-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	2.1E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	A		EPA_ED10
Inhal ED10:	2.1E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	A		EPA_ED10
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.43E+02
Density:	1.6E+00 g/mL @ 98.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.4E-04	Torr	CHEMFATE
Henry's Law:	6.0E-07	atm-m3/mol	CHEMFATE
Water Solub:	2.6E+02	mg/L	CHEMFATE
Distrib Coef:	3.5E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.6E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	5.0E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.3E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.3E+00		RTI_LOGP
Water Solub:	2.6E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :113.00° C
Boiling Point :306.00° C
Formula :C10 H9 N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Naphthylamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000091-59-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.6E+02
Distrib:	3.5E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:	1.0E-01	mg/kg/day	SPHEM
Inhal ED10 Wgt:	A		SPHEM
Oral LD50:	5.0E+00	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	1.4E+03	µg/L	WATCRIT
Salt AWQC:	7.5E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.6E+02	µg/L	WATCRIT
Salt AWQC:	8.3E+00	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.0E+02	µg/L	AQUIRE
Salt Ecol LC50:	5.1E+02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.87E+01
Density:	8.9E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	6.5E+01	ml/g	SSG_KD
Geo. Mean Sol.:	5.2E-01	mg/L	WEAST; LANGE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	8.0E-01		VER_BCF
Salt BCF:	4.7E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.1E+02		VER_BCF
Salt BCF:	4.7E+02		VER_BCF
Log Kow:			
Water Solub:	5.2E-01	mg/L	

OTHER DATA

Melting Point :1455.00° C
Boiling Point :2730.00° C
Formula :Ni

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nickel

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-02-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	5.2E-01
Distrib:	6.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	1.4E+03	µg/L
Salt AWQC:	7.5E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.6E+02	µg/L
Salt AWQC:	8.3E+00	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Nickel 59 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014336-70-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.9E-13	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	4.0E-13	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	5.89E+01
Density:	8.9E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	6.5E+01	ml/g	SSG_KD
Geo. Mean Sol.:	5.2E-01	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.7E+07	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.7E+07	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	8.0E-01		VER_BCF
Salt BCF:	4.7E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.1E+02		VER_BCF
Salt BCF:	4.7E+02		VER_BCF
Log Kow:			
Water Solub:	5.2E-01	mg/L	

OTHER DATA

Melting Point :1455.00° C
Boiling Point :2730.00° C
Formula :Ni-59

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Nickel
Other:	Nickel

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nickel 59 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014336-70-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	5.2E-01
Distrib:	6.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.2E+01	pCi/m3
DW:	2.6E+02	pCi/L
FC:	9.5E+03	pCi/kg
Soil Ing:	4.3E+06	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Nickel 63 (radionuclide) CAS Number: 013981-37-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	5.5E-13	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.0E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	6.29E+01
Density:	8.9E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	6.5E+01	ml/g	SSG_KD
Geo. Mean Sol.:	5.2E-01	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	3.5E+04	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	3.5E+04	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	8.0E-01		VER_BCF
Salt BCF:	4.7E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.1E+02		VER_BCF
Salt BCF:	4.7E+02		VER_BCF
Log Kow:			
Water Solub:	5.2E-01	mg/L	

OTHER DATA

Melting Point :1455.00° C
Boiling Point :2730.00° C
Formula :Ni-63

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Nickel
Other:	Nickel

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nickel 63 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013981-37-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	5.2E-01
Distrib:	6.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	4.7E+00	pCi/m3
DW:	8.7E+01	pCi/L
FC:	3.2E+03	pCi/kg
Soil Ing:	1.4E+06	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Nitric acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007697-37-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	3.3E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	6.30E+01
Density:	1.5E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.3E+01	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :-42.00° C
Boiling Point :83.00° C
Formula :H N O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nitric acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007697-37-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	3.2E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.00E+01
Density:	1.3E-03 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.6E+02	Torr	LIVECHEM
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :-163.60° C
Boiling Point :-151.70° C
Formula :N O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nitric oxide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010102-43-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Nitroaniline, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000088-74-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	5.7E-05	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.9E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.38E+02
Density:	1.4E+00 g/mL @ 15.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E-04	Torr	CHEMCALC
Henry's Law:		atm-m3/mol	
Water Solub:	2.9E+02	mg/L	CHEMCALC
Distrib Coef:	1.3E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.9E+00		RTI_LOGP
Water Solub:	2.9E+02	mg/L	CHEMCALC

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.9E+00		RTI_LOGP

OTHER DATA

Melting Point :71.20° C
Boiling Point :284.00° C
Formula :C6 H6 N2 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nitroaniline, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000088-74-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.9E+02
Distrib:	1.3E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-04	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Nitroaniline, 3- CAS Number: 000099-09-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.1E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.2E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	3.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.0E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.38E+02
Density:	9.9E-01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.6E-05	Torr	CHEMFATE
Henry's Law:	1.4E-07	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+03	mg/L	CHEMFATE
Distrib Coef:	4.4E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.4E+00		RTI_LOGP
Water Solub:	1.2E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :114.00° C
Boiling Point :
Formula :C6 H6 N2 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Nitroaniline, 3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000099-09-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.2E+03
Distrib:	4.4E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.1E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.4E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.38E+02
Density:	1.4E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.3E-06	Torr	CHEMFATE
Henry's Law:	2.1E-09	atm-m3/mol	CHEMFATE
Water Solub:	7.3E+02	mg/L	CHEMFATE
Distrib Coef:	4.7E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	4.4E+00		AQUIRE
Salt BCF:			
Log Kow:	1.4E+00		RTI_LOGP
Water Solub:	7.3E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :147.00° C
Boiling Point :332.00° C
Formula :C6 H6 N2 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nitroaniline, p-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-01-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	7.3E+02
Distrib:	4.7E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Nitrobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000098-95-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-04	mg/kg/day	IRIS
Inhal RfD:	5.0E-03	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.0E+02	mg/kg	ACGIH
Dermal LD50:	4.8E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.8E+03	µg/L	AQUIRE
Salt Ecol LC50:	5.9E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.9E+01	days	THOMAS
Photolysis:	2.0E+02	days	FATERATE
Biodeg:	2.0E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.2E+00	days	THOMAS
Photolysis:	2.0E+02	days	FATERATE
Biodeg:	2.0E+02	days	FATERATE
Radio:		days	
Log Kow:	1.8E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.23E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.5E-01	Torr	CHEMFATE
Henry's Law:	2.4E-05	atm-m3/mol	CHEMFATE
Water Solub:	2.1E+03	mg/L	FATE
Distrib Coef:	1.3E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.8E+00		RTI_LOGP
Water Solub:	2.1E+03	mg/L	FATE

OTHER DATA

Melting Point :5.70° C
Boiling Point :210.80° C
Formula :C6 H5 N O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Nitrobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000098-95-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.1E+03
Distrib:	1.3E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.8E-02	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
OW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Nitrogen dioxide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010102-44-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	3.0E+01	ppm	RTECS
Dust Inhal LC50:	1.2E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.60E+01
Density:	1.6E-03 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.1E+02	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :-9.30° C
Boiling Point :21.15° C
Formula :N O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nitrogen dioxide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010102-44-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:	1.0E+02	µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Nitroglycerine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000055-63-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.1E+02	mg/kg	RTECS
Dermal LD50:	2.9E+01	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.4E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.4E+03	days	FATERATE
Volatility:	**	days	
Photolysis:	1.2E+02	days	FATERATE
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.4E+03	days	FATERATE
Volatility:	**	days	
Photolysis:	1.2E+02	days	FATERATE
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	1.6E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.27E+02
Density:	1.6E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E-04	Torr	CHEMFATE
Henry's Law:	4.3E-08	atm-m3/mol	CHEMFATE
Water Solub:	1.4E+03	mg/L	CHEMFATE
Distrib Coef:	7.8E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.5E+01		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.5E+01		AQUIRE
Salt BCF:			
Log Kow:	1.6E+00		RTI_LOGP
Water Solub:	1.4E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :13.50° C
Boiling Point :93.00° C @ 0.31 Torr
Formula :C3 H5 N3 O9

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nitroglycerine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000055-63-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.4E+03
Distrib:	7.8E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Nitrophenol, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000088-75-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.3E+03	mg/kg	RTECS
Dermal LD50:	7.9E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.39E+02
Density:	1.3E+00 g/mL @ 40.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.1E-01	Torr	CHEMFATE
Henry's Law:	9.5E-06	atm-m3/mol	CHEMFATE
Water Solub:	2.2E+03	mg/L	CHEMFATE
Distrib Coef:	1.1E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	4.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.8E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.8E+00		RTI_LOGP
Water Solub:	2.2E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :44.80° C
Boiling Point :216.00° C
Formula :C6 H5 N O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	2.2E+03
Distrib:	1.1E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.2E+02	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.1E+03	µg/L	AQUIRE
Salt Ecol LC50:	2.2E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	1.4E+01	days	FATERATE
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	1.4E+01	days	FATERATE
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	1.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.39E+02
Density:	1.5E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.1E-05	Torr	CHEMFATE
Henry's Law:	4.2E-10	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+04	mg/L	CHEMFATE
Distrib Coef:	9.8E-02	ml/g	RTI_ION
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.8E+02		AQUIRE
Salt BCF:			
Log Kow:	1.9E+00		RTI_LOGP
Water Solub:	1.2E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :113.80° C
Boiling Point :
Formula :C6 H5 N O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.2E+04
Distrib:	9.8E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Nitropropane, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000079-46-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	5.7E-03	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:	9.4E+00	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.2E+02	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:	4.0E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.1E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	8.3E+01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	8.7E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.91E+01
Density:	9.8E-01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.8E+01	Torr	CHEMFATE
Henry's Law:	1.2E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.7E+04	mg/L	CHEMFATE
Distrib Coef:	1.4E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	8.7E-01		RTI_LOGP
Water Solub:	1.7E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-91.30° C
Boiling Point :120.20° C
Formula :C3 H7 N O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Nitropropane, 2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000079-46-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.7E+04
Distrib:	1.4E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	9.1E-07	mg/m3
Non Cancer Risk:	2.1E-02	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Nitroso-di-n-butylamine, N- CAS Number: 000924-16-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	5.4E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	5.6E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	2.3E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	2.3E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.2E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.58E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E-02	Torr	CHEMFATE
Henry's Law:	3.2E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.3E+03	mg/L	CHEMFATE
Distrib Coef:	4.7E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:	3.3E-01	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+00	days	THOMAS
Photolysis:	3.3E-01	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.4E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.4E+00		RTI_LOGP
Water Solub:	1.3E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :105.00° C
Formula :C8 H18 N2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Nitroso-di-n-butylamine, N-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000924-16-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.3E+03
Distrib:	4.7E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0700
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.5E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.6E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.2E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.6E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.8E-04	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Nitroso-di-n-methylurethane, N- CAS Number: 000615-53-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.8E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	6.0E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.32E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.2E+00	Torr	CHEMFATE
Henry's Law:	5.6E-06	atm-m3/mol	CHEMFATE
Water Solub:	3.7E+04	mg/L	CHEMFATE
Distrib Coef:	1.7E-04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.0E+00	days	FATERATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.0E+00	days	FATERATE
Volatility:	6.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	-1.1E+00		CHEMFATE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-1.1E+00		CHEMFATE
Water Solub:	3.7E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C4 H8 N2 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Nitroso-di-n-methylurethane, N-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000615-53-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.7E+04
Distrib:	1.7E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.8E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.34E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.0E-04	Torr	CHEMFATE
Henry's Law:	2.4E-10	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	5.6E-05	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	-1.6E+00		CHEMFATE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-1.6E+00		CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :125.00° C @ 0.01 Torr
Formula :C4 H10 N2 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nitrosodiethanolamine, N-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001116-54-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.0E+06
Distrib:	5.6E-05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.0E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.3E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.0E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.1E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Nitrosodiethylamine, N- CAS Number: 000055-18-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.5E+02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	1.5E+02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	1.0E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.0E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.2E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.6E+01	days	THOMAS
Photolysis:	3.3E-01	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	7.8E+00	days	THOMAS
Photolysis:	3.3E-01	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	4.8E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.02E+02
Density:	9.4E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.6E-01	Torr	CHEMFATE
Henry's Law:	3.6E-06	atm-m3/mol	CHEMFATE
Water Solub:	9.3E+04	mg/L	CHEMFATE
Distrib Coef:	5.9E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.8E-01		RTI_LOGP
Water Solub:	9.3E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :176.90° C
Formula :C4 H10 N2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Nitrosodiethylamine, N-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000055-18-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	9.3E+04
Distrib:	5.9E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0700
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.7E-08	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.7E-07	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.3E-03	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.7E-07	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.1E-05	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	5.1E+01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	4.9E+01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	1.6E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.6E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.8E+01	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.6E+01	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.8E+05	µg/L	AQUIRE
Salt Ecol LC50:	3.3E+06	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.41E+01
Density:	1.0E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.7E+00	Torr	CHEMFATE
Henry's Law:	1.2E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	5.5E-04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.5E+01	days	THOMAS
Photolysis:	4.2E-02	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.8E+01	days	THOMAS
Photolysis:	4.2E-02	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	-5.7E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-5.7E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :154.00° C
Formula :C2 H6 N2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Nitrosodimethylamine, N-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000062-75-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.0E+06
Distrib:	5.5E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.7E-07	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.7E-06	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.3E-02	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.7E-06	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	6.2E-05	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Nitrosodiphenylamine, N- CAS Number: 000086-30-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	4.9E-03	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:	7.9E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.8E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.98E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.7E-04	Torr	CHEMFATE
Henry's Law:	5.0E-06	atm-m3/mol	CHEMFATE
Water Solub:	3.5E+01	mg/L	CHEMFATE
Distrib Coef:	2.6E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:	3.4E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	3.4E+01	days	FATERATE
Radio:		days	
Log Kow:	3.2E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.2E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.2E+02		VER_BCF
Salt BCF:			
Log Kow:	3.2E+00		RTI_LOGP
Water Solub:	3.5E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :66.50° C
Boiling Point :
Formula :C12 H10 N2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Nitrosodiphenylamine, N-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000086-30-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	3.5E+01
Distrib:	2.6E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.7E-02	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.3E+02	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.7E-02	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	6.4E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Nitrosomethylethylamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010595-95-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.2E+01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	9.0E+01	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	-1.2E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.81E+01
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	2.0E+04	mg/L	CHEMCALC
Distrib Coef:	1.5E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-1.2E-01		RTI_LOGP
Water Solub:	2.0E+04	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C3 H8 N2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nitrosomethylethylamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010595-95-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.0E+04
Distrib:	1.5E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.9E-06	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.9E-02	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.9E-06	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.4E-04	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Nitrosopyrrolidine, N-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000930-55-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.1E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	2.1E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	3.6E-03	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	3.6E-03	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.3E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.00E+02
Density:	1.1E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.2E-02	Torr	CHEMFATE
Henry's Law:	1.2E-08	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	1.3E-03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	-1.9E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-1.9E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :214.00° C
Formula :C4 H8 N2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Nitrosopyrrolidine, N-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000930-55-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.2000
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.0E+06
Distrib:	1.3E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	4.0E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.1E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	3.0E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.1E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.5E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Nitrotoluene, 4- CAS Number: 000099-99-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-02	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.2E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.1E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	2.5E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.37E+02
Density:	1.1E+00 g/mL @ 75.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.8E-03	Torr	CHEMCALC
Henry's Law:	2.1E-07	atm-m3/mol	CHEMEST
Water Solub:	9.4E+01	mg/L	CHEMCALC
Distrib Coef:	4.6E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.4E+00		RTI_LOGP
Water Solub:	9.4E+01	mg/L	CHEMCALC

OTHER DATA

Melting Point :51.60° C
Boiling Point :238.30° C
Formula :C7 H7 N 02

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Nitrotoluene, 4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000099-99-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	9.4E+01
Distrib:	4.6E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Octamethylpyrophosphoramide CAS Number: 000152-16-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-03	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+00	mg/kg	RTECS
Dermal LD50:	1.5E+01	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.5E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.86E+02
Density:	1.1E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.0E+06	mg/L	CHEMCALC
Distrib Coef:	6.2E-04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.3E+04	days	CHEMFATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.3E+04	days	CHEMFATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	-5.2E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-5.2E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMCALC

OTHER DATA

Melting Point :17.00° C
Boiling Point :188.00° C
Formula :C8 H24 N4 O3 P2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/02/96
Chemical: Octamethylpyrophosphoramide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000152-16-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.0E+06
Distrib:	6.2E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Oxybis (1-chloropropane), 2,3'- CAS Number: 000108-60-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.4E+02	mg/kg	RTECS
Dermal LD50:	3.0E+03	mg/kg	RTECS
Gas Inhal LC50:	7.0E+02	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.71E+02
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.8E-01	Torr	CHEMFATE
Henry's Law:	1.2E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.7E+03	mg/L	CHEMFATE
Distrib Coef:	5.5E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.5E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.5E+00		CHEMFATE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.5E+00		CHEMFATE
Water Solub:	1.7E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :187.00° C
Formula :C6 H12 Cl2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.7E+03
Distrib:	5.5E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Parathion, ethyl-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000056-38-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-03	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	9.3E-01	mg/kg	C_EENV
Dermal LD50:	6.4E+00	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	1.0E-02	mg/L	ACGIH
ACUTE			
Fresh AWQC:	6.5E-02	µg/L	WATCRIT
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.3E-02	µg/L	WATCRIT
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.6E-02	µg/L	AQUIRE
Salt Ecol LC50:	5.7E-01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.91E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.7E-06	Torr	CHEMFATE
Henry's Law:	5.7E-07	atm-m3/mol	CHEMFATE
Water Solub:	6.5E+00	mg/L	CHEMFATE
Distrib Coef:	1.2E+01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.9E+02	days	FATE
Volatility:	2.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.9E+02	days	FATE
Volatility:	7.6E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.8E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	5.7E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	5.7E+02		VER_BCF
Salt BCF:			
Log Kow:	3.8E+00		RTI_LOGP
Water Solub:	6.5E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :6.10° C
Boiling Point :375.00° C
Formula :C10 H14 N O5 P S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Parathion, ethyl-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000056-38-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	6.5E+00
Distrib:	1.2E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	4.7E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	8.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	6.5E-02	µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.3E-02	µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/02/96
Chemical: Parathion, methyl-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000298-00-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.5E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	9.0E+00	mg/kg	ACGIH
Dermal LD50:	6.7E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	1.2E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.0E+00	µg/L	AQUIRE
Salt Ecol LC50:	2.0E-01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.63E+02
Density:	1.4E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.8E-05	Torr	CHEMFATE
Henry's Law:	1.0E-07	atm-m3/mol	CHEMFATE
Water Solub:	5.5E+01	mg/L	CHEMFATE
Distrib Coef:	1.4E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	7.2E+01	days	FATERATE
Volatility:	5.7E+02	days	THOMAS
Photolysis:	3.8E+01	days	FATERATE
Biodeg:	7.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	7.2E+01	days	FATERATE
Volatility:	4.0E+02	days	THOMAS
Photolysis:	3.8E+01	days	FATERATE
Biodeg:	7.0E+01	days	FATERATE
Radio:		days	
Log Kow:	2.9E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	7.1E+01		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	7.1E+01		AQUIRE
Salt BCF:			
Log Kow:	2.9E+00		RTI_LOGP
Water Solub:	5.5E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :37.50° C
Boiling Point :
Formula :C8 H10 N O5 P S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/02/96
Chemical: Parathion, methyl-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000298-00-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	5.5E+01
Distrib:	1.4E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	9.1E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.0E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	9.1E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	3.4E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: PCBs CAS Number: 001336-36-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	7.7E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	2.0E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	2.0E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.9E+03	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	2.0E+00	µg/L	WATCRIT
Salt AWQC:	1.0E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.4E-02	µg/L	WATCRIT
Salt AWQC:	3.0E-02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.7E-05	Torr	CHEMFATE
Henry's Law:	2.6E-03	atm-m3/mol	LIVECHEM
Water Solub:	7.0E-02	mg/L	CHEMFATE
Distrib Coef:	1.7E+03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:		days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:		days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	6.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.1E+04		VER_BCF
Salt BCF:	6.7E+05		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	2.7E+05		VER_BCF
Salt BCF:	6.7E+05		VER_BCF
Log Kow:	6.0E+00		RTI_LOGP
Water Solub:	7.0E-02	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :mixture

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: PCBs

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001336-36-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	7.0E-02
Distrib:	1.7E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-04	mg/L
Cancer Risk:	1.1E-05	mg/L
Non Cancer Risk:	7.3E-04	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.3E-02	mg/kg
Non Cancer Risk:	1.6E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-04	mg/L
Cancer Risk:	1.1E-05	mg/L
Non Cancer Risk:	7.3E-04	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.1E-04	mg/kg
Non Cancer Risk:	2.7E-02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	2.0E+00	µg/L
Salt AWQC:	1.0E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.4E-02	µg/L
Salt AWQC:	3.0E-02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Pentachlorinated dibenzo-p-dioxin, 1,2,3,7,8- CAS Number: 040321-76-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	8.0E+04	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	8.0E+04	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.0E-03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.7E-02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	6.6E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.56E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.2E-02	mg/L	CHEMCALC
Distrib Coef:	6.7E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.6E+00		RTI_LOGP
Water Solub:	1.2E-02	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H3 Cl5 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.2E-02
Distrib:	6.7E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.1E-10	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-09	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.0E-06	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-09	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.9E-08	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Pentachlorinated dibenzofuran, 1,2,3,7,8- CAS Number: 109719-77-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	8.0E+03	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	8.0E+03	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.40E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	9.1E-03	mg/L	CHEMCALC
Distrib Coef:	8.6E+03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	6.8E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.8E+00		RTI_LOGP
Water Solub:	9.1E-03	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H3 Cl5 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	9.1E-03
Distrib:	8.6E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.1E-09	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-08	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.0E-05	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-08	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.9E-07	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	8.0E+04	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	8.0E+04	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.40E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	6.4E-03	mg/L	CHEMCALC
Distrib Coef:	1.3E+04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	6.9E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.9E+00		RTI_LOGP
Water Solub:	6.4E-03	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H3 Cl5 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.4E-03
Distrib:	1.3E+04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.1E-10	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-09	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.0E-06	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-09	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	3.9E-08	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Pentachlorobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000608-93-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.1E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.4E+02	µg/L	AQUIRE
Salt Ecol LC50:	8.0E+02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.50E+02
Density:	1.8E+00 g/mL @ 16.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.2E-03	Torr	CHEMFATE
Henry's Law:	7.1E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.3E+00	mg/L	FATE
Distrib Coef:	3.5E+01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.4E+03		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	3.4E+03		VER_BCF
Salt BCF:			
Log Kow:	5.3E+00		RTI_LOGP
Water Solub:	1.3E+00	mg/L	FATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:	3.5E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.6E+00	days	THOMAS
Photolysis:		days	
Biodeg:	3.5E+02	days	FATERATE
Radio:		days	
Log Kow:	5.3E+00		RTI_LOGP

OTHER DATA

Melting Point :86.00° C
Boiling Point :277.00° C
Formula :C6 H Cl5

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Pentachlorobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000608-93-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.3E+00
Distrib:	3.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	6.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Pentachloroethane

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000076-01-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	7.9E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	7.9E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:	5.0E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.5E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.3E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.2E+05	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.02E+02
Density:	1.7E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.5E+00	Torr	CHEMFATE
Henry's Law:	1.9E-03	atm-m3/mol	CHEMFATE
Water Solub:	4.8E+02	mg/L	CHEMFATE
Distrib Coef:	6.3E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.7E+00	days	FATE
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.7E+00	days	FATE
Volatility:	1.4E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.7E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	6.7E+01		VER_BCF
Salt BCF:			
Log Kow:	3.1E+00		RTI_LOGP
Water Solub:	4.8E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :-29.00° C
Boiling Point :159.80° C
Formula :C2 H Cl5

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	4.8E+02
Distrib:	6.3E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	2.6E-01	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	C		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	7.0E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	7.0E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:	8.0E+02	mg/kg	C_EENV
Dermal LD50:	4.0E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.95E+02
Density:	1.7E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.1E-04	Torr	CHEMFATE
Henry's Law:	3.8E-04	atm-m3/mol	CHEMFATE
Water Solub:	5.5E-01	mg/L	CHEMFATE
Distrib Coef:	7.3E+01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	9.9E+02	days	FATE
Volatility:	1.5E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	9.9E+02	days	FATE
Volatility:	1.7E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+02	days	FATERATE
Radio:		days	
Log Kow:	4.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.6E+02		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.6E+02		AQUIRE
Salt BCF:			
Log Kow:	4.6E+00		RTI_LOGP
Water Solub:	5.5E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :144.00° C
Boiling Point :
Formula :C6 Cl5 N O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Pentachloronitrobenzene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000082-68-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	5.5E-01
Distrib:	7.3E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.3E-04	mg/L
Non Cancer Risk:	1.1E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.5E+00	mg/kg
Non Cancer Risk:	2.3E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.3E-04	mg/L
Non Cancer Risk:	1.1E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.2E-02	mg/kg
Non Cancer Risk:	4.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	1.2E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.5E+02	mg/kg	ACGIH
Dermal LD50:	9.6E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	2.0E+01	µg/L	WATCRIT
Salt AWQC:	1.3E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.3E+01	µg/L	WATCRIT
Salt AWQC:	7.9E+00	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E-01	µg/L	AQUIRE
Salt Ecol LC50:	3.7E+01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	4.6E+00	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	4.6E+00	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	5.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.66E+02
Density:	2.0E+00 g/mL @ 22.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.2E-05	Torr	CHEMFATE
Henry's Law:	2.4E-08	atm-m3/mol	CHEMFATE
Water Solub:	2.0E+03	mg/L	CHEMFATE
Distrib Coef:	1.2E+00	ml/g	RTI_ION
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.4E+02		VER_BCF
Salt BCF:	3.9E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.1E+03		VER_BCF
Salt BCF:	3.9E+02		VER_BCF
Log Kow:	5.1E+00		RTI_LOGP
Water Solub:	2.0E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :174.00° C
Boiling Point :
Formula :C6 H Cl5 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.0E+03
Distrib:	1.2E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E-03	mg/L
Cancer Risk:	7.1E-04	mg/L
Non Cancer Risk:	1.1E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	5.3E+00	mg/kg
Non Cancer Risk:	2.3E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E-03	mg/L
Cancer Risk:	7.1E-04	mg/L
Non Cancer Risk:	1.1E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.6E-02	mg/kg
Non Cancer Risk:	4.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	2.0E+01	µg/L
Salt AWQC:	1.3E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.3E+01	µg/L
Salt AWQC:	7.9E+00	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+02	µg/L	AQUIRE
Salt Ecol LC50:	6.0E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:	1.0E+00	days	FATERATE
Biodeg:	2.0E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.7E+00	days	THOMAS
Photolysis:	1.0E+00	days	FATERATE
Biodeg:	2.0E+02	days	FATERATE
Radio:		days	
Log Kow:	4.6E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.78E+02
Density:	9.8E-01 g/mL @ 4.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.1E-04	Torr	CHEMFATE
Henry's Law:	2.3E-05	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+00	mg/L	CHEMFATE
Distrib Coef:	5.9E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	3.2E+01		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	5.1E+03		AQUIRE
Salt BCF:	3.2E+01		VER_BCF
Log Kow:	4.6E+00		RTI_LOGP
Water Solub:	1.2E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :99.20° C
Boiling Point :340.00° C
Formula :C14 H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	1.2E+00
Distrib:	5.9E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Phenol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-95-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.3E+02	mg/kg	ACGIH
Dermal LD50:	6.3E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.8E+00	µg/L	AQUIRE
Salt Ecol LC50:	5.2E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.5E+02	days	THOMAS
Photolysis:	7.2E+00	days	FATERATE
Biodeg:	3.5E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	6.1E+01	days	THOMAS
Photolysis:	7.2E+00	days	FATERATE
Biodeg:	3.5E+00	days	FATERATE
Radio:		days	
Log Kow:	1.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.41E+01
Density:	1.1E+00 g/mL @ 45.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.8E-01	Torr	CHEMFATE
Henry's Law:	4.0E-07	atm-m3/mol	CHEMFATE
Water Solub:	8.3E+04	mg/L	CHEMFATE
Distrib Coef:	5.7E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.3E+00		VER_BCF
Salt BCF:	8.8E+00		AQUIRE
Log Kow:	1.5E+00		RTI_LOGP
Water Solub:	8.3E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :40.90° C
Boiling Point :181.80° C
Formula :C6 H6 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Phenol

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-95-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	8.3E+04
Distrib:	5.7E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	4.7E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	8.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Phenyl sulfide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000139-66-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.9E+02	mg/kg	RTECS
Dermal LD50:	1.1E+04	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.86E+02
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.5E-03	Torr	CHEMCALC
Henry's Law:	1.6E-05	atm-m3/mol	CHEMEST
Water Solub:	1.3E+00	mg/L	CHEMCALC
Distrib Coef:	4.5E+01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.3E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	4.4E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.4E+00		RTI_LOGP
Water Solub:	1.3E+00	mg/L	CHEMCALC

OTHER DATA

Melting Point :-25.90° C
Boiling Point :296.00° C
Formula :C12 H10 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Phenyl sulfide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000139-66-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.3E+00
Distrib:	4.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.5E+02	mg/kg	ACGIH
Dermal LD50:	5.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	5.0E-02		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.08E+02
Density:	1.0E+00 g/mL @ 58.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.7E-03	Torr	CHEMFATE
Henry's Law:	1.4E-10	atm-m3/mol	CHEMFATE
Water Solub:	2.6E+06	mg/L	CHEMFATE
Distrib Coef:	2.2E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	5.0E-02		RTI_LOGP
Water Solub:	2.6E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :63.50° C
Boiling Point :285.00° C
Formula :C6 H8 N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.2000
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.6E+06
Distrib:	2.2E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	4.7E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.2E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	8.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.3E+01	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.0E+00	µg/L	AQUIRE
Salt Ecol LC50:	5.4E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.37E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.2E-08	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:	2.0E+03	mg/L	CHEMFATE
Distrib Coef:	3.1E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.2E+00		RTI_LOGP
Water Solub:	2.0E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :153.00° C
Boiling Point :
Formula :C8 H8 Hg O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0002
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.0E+03
Distrib:	3.1E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	6.3E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-04	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.1E+00	mg/kg	ACGIH
Dermal LD50:	2.5E+00	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	1.1E-02	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.0E-01	µg/L	AQUIRE
Salt Ecol LC50:	4.0E-01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.1E+00	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.1E+00	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.8E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.60E+02
Density:	1.2E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.4E-04	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:	5.0E+01	mg/L	CHEMFATE
Distrib Coef:	1.1E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.8E+00		RTI_LOGP
Water Solub:	5.0E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :119.00° C @ 0.80 Torr
Formula :C7 H17 O2 P S3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Phorate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000298-02-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	5.0E+01
Distrib:	1.1E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Phosgene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000075-44-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	5.0E+01	ppm	RTECS
Dust Inhal LC50:	1.1E-02	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	7.9E-02	days	FATERATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	7.9E-02	days	FATERATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.89E+01
Density:	1.4E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E+03	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :-127.90° C
Boiling Point :8.00° C
Formula :C Cl2 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Phosphamidon

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013171-21-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.0E+00	mg/kg	RTECS
Dermal LD50:	1.3E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.0E-02	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.7E+00	µg/L	AQUIRE
Salt Ecol LC50:	4.8E+01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.00E+02
Density:	1.2E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.5E-05	Torr	LIVECHEM
Henry's Law:		atm-m3/mol	
Water Solub:	1.0E+06	mg/L	CHEMCALC
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	1.0E+06	mg/L	CHEMCALC

OTHER DATA

Melting Point :-45.00° C
Boiling Point :162.00° C @ 1.50 Torr
Formula :C10 H19 Cl N O5 P

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.0E+06
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Phosphine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007803-51-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:	8.6E-05	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.1E+01	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.40E+01
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.9E+04	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:	3.7E+02	mg/L	CHEMCALC
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	3.7E+02	mg/L	CHEMCALC

OTHER DATA

Melting Point :-133.00° C
Boiling Point :-87.70° C
Formula :H3 P

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	3.7E+02
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	3.1E-04	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Phosphonodithioic acid, phenyl-o-ethyl-o-(4-nitrophenyl)ester CAS Number: 002104-64-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.0E+00	mg/kg	ACGIH
Dermal LD50:	2.5E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.0E-01	µg/L	WATCRIT
Salt AWQC:	1.0E-01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.1E-01	µg/L	AQUIRE
Salt Ecol LC50:	2.9E-01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.23E+02
Density:	1.3E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	4.3E+00	mg/L	CHEMCALC
Distrib Coef:	1.2E+01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.9E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	8.5E+01		AQUIRE
Salt BCF:	7.4E+02		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	2.3E+03		AQUIRE
Salt BCF:	7.4E+02		AQUIRE
Log Kow:	3.9E+00		RTI_LOGP
Water Solub:	4.3E+00	mg/L	CHEMCALC

OTHER DATA

Melting Point :36.00° C
Boiling Point :
Formula :C14 H14 N O4 P S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Phosphonodithioic acid, phenyl-o-ethyl-o-(4-nitrophenyl)ester CAS Number: 002104-64-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	4.3E+00
Distrib:	1.2E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5000.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-04	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E-01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-04	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E-02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.0E-01	µg/L
Salt AWQC:	1.0E-01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	2.9E-03	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.5E+03	mg/kg	RTECS
Dermal LD50:	2.7E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	8.5E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.7E+00	µg/L	AQUIRE
Salt Ecol LC50:	4.8E+01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.80E+01
Density:	1.9E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	-1.9E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-1.9E+00		RTI_LOGP
Water Solub:		mg/L	

OTHER DATA

Melting Point :42.35° C
Boiling Point :
Formula :H3 O4 P

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Phosphoric acid

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007664-38-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.0E-02	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Phosphorous (elemental) CAS Number: 007723-14-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.0E+00	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:	1.0E-01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.0E+00	µg/L	AQUIRE
Salt Ecol LC50:	1.4E+01	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.10E+01
Density:	1.9E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	3.5E+00	ml/g	BAES_KD
Geo. Mean Sol.:	1.2E+04	mg/L	WEAST

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	1.2E+04	mg/L	

OTHER DATA

Melting Point :44.10° C
Boiling Point :280.00° C
Formula :P

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Phosphorous (elemental)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007723-14-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.2E+04
Distrib:	3.5E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-04	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E-04	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E-02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:	1.0E-01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Phthalic anhydride CAS Number: 000085-44-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E+00	mg/kg/day	IRIS
Inhal RfD:	3.4E-02	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.0E+03	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.48E+02
Density:	1.5E+00 g/mL @ 4.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.2E-04	Torr	CHEMFATE
Henry's Law:	1.6E-08	atm-m3/mol	CHEMFATE
Water Solub:	6.2E+03	mg/L	CHEMFATE
Distrib Coef:	4.9E-04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.1E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.1E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	-6.2E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-6.2E-01		RTI_LOGP
Water Solub:	6.2E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :130.80° C
Boiling Point :295.00° C
Formula :C8 H4 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Phthalic anhydride

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000085-44-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	6.2E+03
Distrib:	4.9E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.3E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+05	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	Yes
Molecular Weight:	2.42E+02
Density:	2.0E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	7.3E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.0E+06		AQUIRE
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :641.00° C
Boiling Point :3232.00° C
Formula :Pu

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

NRS Factor Values are assigned to radioactive isotopes but not to radioactive elements. Data for a radioactive element is used to derive factor values for that element's isotopes.

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	7.7E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.3E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.36E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.0E+03	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.0E+03	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	7.3E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.0E+06		AQUIRE
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Pu

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Plutonium
Other:	Plutonium

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	4.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	3.6E-04	pCi/m3
DW:	6.2E-01	pCi/L
FC:	2.3E+01	pCi/kg
Soil Ing:	1.0E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.0E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	2.7E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.38E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	3.2E+04	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	3.2E+04	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	7.3E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.0E+06		AQUIRE
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Pu

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Plutonium
Other:	Plutonium

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Plutonium 238 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013981-16-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	4.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.7E-04	pCi/m3
DW:	1.6E-01	pCi/L
FC:	6.0E+00	pCi/kg
Soil Ing:	2.7E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Plutonium 239 (radionuclide) CAS Number: 015117-48-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.2E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	2.8E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.39E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	8.8E+06	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	8.8E+06	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	7.3E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.0E+06		AQUIRE
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Pu

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Plutonium
Other:	Plutonium

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Plutonium 239 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 015117-48-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	4.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.7E-04	pCi/m3
DW:	1.5E-01	pCi/L
FC:	5.6E+00	pCi/kg
Soil Ing:	2.5E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Plutonium 240 (radionuclide) CAS Number: 014119-33-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.1E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	2.8E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.40E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.4E+06	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.4E+06	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	7.3E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.0E+06		AQUIRE
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Pu

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Plutonium
Other:	Plutonium

** This substance should be considered essentially non-volatile.

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Plutonium 240 (radionuclide) CAS Number: 014119-33-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	4.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.7E-04	pCi/m3
DW:	1.5E-01	pCi/L
FC:	5.6E+00	pCi/kg
Soil Ing:	2.5E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Plutonium 241(+D) (radionuclide) CAS Number: 014119-32-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.3E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	3.9E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.41E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	5.3E+03	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	5.3E+03	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	7.3E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.0E+06		AQUIRE
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Pu

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Plutonium
Other:	Plutonium

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Plutonium 241(+D) (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014119-32-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	4.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.2E-04	pCi/m3
DW:	1.4E-01	pCi/L
FC:	5.3E+00	pCi/kg
Soil Ing:	2.4E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Plutonium 242 (radionuclide) CAS Number: 013982-10-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.0E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	2.6E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.42E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.4E+08	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.4E+08	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	7.3E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.0E+06		AQUIRE
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Pu

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Plutonium
Other:	Plutonium

** This substance should be considered essentially non-volatile.

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Plutonium 242 (radionuclide) CAS Number: 013982-10-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	4.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.8E-04	pCi/m3
DW:	1.6E-01	pCi/L
FC:	5.9E+00	pCi/kg
Soil Ing:	2.6E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Plutonium 243 (radionuclide) CAS Number: 015706-37-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.7E-13	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	2.7E-13	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.43E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.1E-01	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.1E-01	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	7.3E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.0E+06		AQUIRE
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Pu

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Plutonium
Other:	Plutonium

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Plutonium 243 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 015706-37-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	
Distrib:	4.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0700
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.8E+01	pCi/m3
DW:	1.3E+02	pCi/L
FC:	4.8E+03	pCi/kg
Soil Ing:	2.2E+06	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Plutonium 244(+D) (radionuclide) CAS Number: 014119-34-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.2E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	2.7E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	3.0E+10	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	3.0E+10	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.44E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	7.3E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	1.0E+06		AQUIRE
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Pu

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Plutonium
Other:	Plutonium

** This substance should be considered essentially non-volatile.

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Plutonium 244(+D) (radionuclide) CAS Number: 014119-34-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	4.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.8E-04	pCi/m3
DW:	1.5E-01	pCi/L
FC:	5.5E+00	pCi/kg
Soil Ing:	2.5E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Polychlorinated triphenyl CAS Number: 012642-23-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.1E+04	mg/kg	RTECS
Dermal LD50:	3.2E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.5E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :mixture

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Potassium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-09-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.91E+01
Density:	8.6E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	5.5E+00	ml/g	BAES_KD
Geo. Mean Sol.:	1.8E+04	mg/L	LIDE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	1.8E+04	mg/L	

OTHER DATA

Melting Point :63.25° C
Boiling Point :760.00° C
Formula :K

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Potassium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-09-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	1.8E+04
Distrib:	5.5E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.3E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	7.5E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	4.00E+01
Density:	8.6E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	5.5E+00	ml/g	BAES_KD
Geo. Mean Sol.:	1.8E+04	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	4.7E+11	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	4.7E+11	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	1.8E+04	mg/L	

OTHER DATA

Melting Point :63.25° C
Boiling Point :760.00° C
Formula :K-40

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Potassium
Other:	Potassium

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Potassium 40 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013966-00-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.8E+04
Distrib:	5.5E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	6.4E-01	pCi/m3
DW:	3.8E+00	pCi/L
FC:	1.4E+02	pCi/kg
Soil Ing:	6.4E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Potassium silver cyanide CAS Number: 000506-61-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.99E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :C2 Ag K N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	7.5E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.4E+03	mg/kg	RTECS
Dermal LD50:	3.2E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.56E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.8E-03	Torr	CHEMEST
Henry's Law:	5.4E-06	atm-m3/mol	CHEMEST
Water Solub:	3.3E+01	mg/L	FATE
Distrib Coef:	5.6E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.7E+06	days	FATE
Volatility:	1.5E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.7E+06	days	FATE
Volatility:	8.8E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.5E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.5E+00		RTI_LOGP
Water Solub:	3.3E+01	mg/L	FATE

OTHER DATA

Melting Point :155.00° C
Boiling Point :
Formula :C12 H11 Cl2 N O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Pronamide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 023950-58-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	3.3E+01
Distrib:	5.6E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	5.9E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.0E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Pyrene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000129-00-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.5E+01	µg/L	AQUIRE
Salt Ecol LC50:	9.9E+01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.02E+02
Density:	1.3E+00 g/mL @ 23.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.6E-06	Torr	CHEMFATE
Henry's Law:	1.1E-05	atm-m3/mol	CHEMFATE
Water Solub:	1.4E-01	mg/L	FATE
Distrib Coef:	2.1E+02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+02	days	THOMAS
Photolysis:	8.5E-02	days	FATERATE
Biodeg:	1.9E+03	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	4.5E+00	days	THOMAS
Photolysis:	8.5E-02	days	FATERATE
Biodeg:	1.9E+03	days	FATERATE
Radio:		days	
Log Kow:	5.1E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.9E+01		VER_BCF
Salt BCF:	4.4E+03		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	6.9E+01		VER_BCF
Salt BCF:	6.4E+03		AQUIRE
Log Kow:	5.1E+00		RTI_LOGP
Water Solub:	1.4E-01	mg/L	FATE

OTHER DATA

Melting Point :151.20° C
Boiling Point :404.00° C
Formula :C16 H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Pyrene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000129-00-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.4E-01
Distrib:	2.1E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.9E-01	mg/kg	ACGIH
Dermal LD50:	1.1E+03	mg/kg	RTECS
Gas Inhal LC50:	9.0E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.1E+03	µg/L	AQUIRE
Salt Ecol LC50:	5.0E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	8.1E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.3E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	6.7E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.91E+01
Density:	9.8E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.1E+01	Torr	CHEMFATE
Henry's Law:	8.9E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	9.1E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.7E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-41.60° C
Boiling Point :115.20° C
Formula :C5 H5 N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.0E+06
Distrib:	9.1E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Quinoline

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000091-22-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.2E+01	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	C		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:	5.4E+02	mg/kg	C_EENV
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.4E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:	1.6E+02	days	FATERATE
Biodeg:	1.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+01	days	THOMAS
Photolysis:	1.6E+02	days	FATERATE
Biodeg:	1.0E+01	days	FATERATE
Radio:		days	
Log Kow:	2.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.29E+02
Density:	1.1E+00 g/mL @ 15.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.6E-02	Torr	CHEMFATE
Henry's Law:	2.7E-06	atm-m3/mol	CHEMFATE
Water Solub:	6.1E+03	mg/L	CHEMFATE
Distrib Coef:	2.1E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	3.7E-01		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	7.3E+01		AQUIRE
Salt BCF:			
Log Kow:	2.1E+00		RTI_LOGP
Water Solub:	6.1E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-14.78° C
Boiling Point :237.10° C
Formula :C9 H7 N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	6.1E+03
Distrib:	2.1E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.1E-06	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	5.3E-02	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.1E-06	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.6E-04	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	Yes
Molecular Weight:	2.26E+02
Density:	5.5E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+02	ml/g	BAES_KD
Geo. Mean Sol.:	3.6E+01	mg/L	LIDE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	3.6E+01	mg/L	

OTHER DATA

Melting Point :700.00° C
Boiling Point :1737.00° C
Formula :Ra

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

HRS Factor Values are assigned to radioactive isotopes but not to radioactive elements. Data for a radioactive element is used to derive factor values for that element's isotopes.

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.0E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	2.8E-09	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	5.8E+05	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	5.8E+05	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.26E+02
Density:	5.5E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+02	ml/g	BAES_KD
Geo. Mean Sol.:	3.6E+01	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	3.6E+01	mg/L	

OTHER DATA

Melting Point :700.00° C
Boiling Point :1737.00° C
Formula :Ra-226(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Radium
Other:	Radium

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	3.6E+01
Distrib:	4.5E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.7E-03	pCi/m3
DW:	1.6E-01	pCi/L
FC:	5.9E+00	pCi/kg
Soil Ing:	2.7E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.5E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	9.9E-10	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.1E+03	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.1E+03	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.28E+02
Density:	5.5E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+02	ml/g	BAES_KD
Geo. Mean Sol.:	3.6E+01	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	3.6E+01	mg/L	

OTHER DATA

Melting Point :700.00° C
Boiling Point :1737.00° C
Formula :Ra-228(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Radium
Other:	Radium

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	3.6E+01
Distrib:	4.5E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	4.8E-03	pCi/m3
DW:	1.9E-01	pCi/L
FC:	7.1E+00	pCi/kg
Soil Ing:	3.2E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	Yes
Molecular Weight:	2.22E+02
Density:	9.7E-03 g/mL @ 0.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.6E+02	Torr	LIVECHEM
Henry's Law:		atm-m3/mol	
Water Solub:	2.2E+03	mg/L	LIVECHEM
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.2E+03	mg/L	LIVECHEM

OTHER DATA

Melting Point :-71.00° C
Boiling Point :-61.80° C
Formula :Rn

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

HRS Factor Values are assigned to radioactive isotopes but not to radioactive elements. Data for a radioactive element is used to derive factor values for that element's isotopes.

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Radon 222(+D) (radionuclide) CAS Number: 014859-67-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(pCi)^-1	
Oral Wt-of-Evid:	A		NA
Inhal Slope:	7.6E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.22E+02
Density:	9.7E-03 g/mL @ 0.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.6E+02	Torr	LIVECHEM
Henry's Law:		atm-m3/mol	
Water Solub:	2.2E+03	mg/L	LIVECHEM
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	3.8E+00	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	3.8E+00	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.2E+03	mg/L	LIVECHEM

OTHER DATA

Melting Point :-71.00° C
Boiling Point :-61.80° C
Formula :Rn-222(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Radon
Other:	Radon

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.2E+03
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	6.3E-01	pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	9.8E+02	mg/kg	ACGIH
Dermal LD50:	3.4E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.5E+02	µg/L	AQUIRE
Salt Ecol LC50:	4.2E+04	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.10E+02
Density:	1.3E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.5E-04	Torr	CHEMEST
Henry's Law:	7.7E-09	atm-m3/mol	CHEMEST
Water Solub:	1.0E+06	mg/L	LIVECHEM
Distrib Coef:	1.2E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	7.8E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	7.8E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	LIVECHEM

OTHER DATA

Melting Point :111.00° C
Boiling Point :178.00° C @ 16.00 Torr
Formula :C6 H6 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.0E+06
Distrib:	1.2E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-02	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.3E+03	mg/kg	ACGIH
Dermal LD50:	1.6E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.8E+00	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	5.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.22E+02
Density:	1.4E+00 g/mL @ 32.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.1E+00	mg/L	FATE
Distrib Coef:	1.9E+02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	4.4E+00		AQUIRE
Salt BCF:			
Log Kow:	5.1E+00		RTI_LOGP
Water Solub:	1.1E+00	mg/L	FATE

OTHER DATA

Melting Point :41.00° C
Boiling Point :152.50° C @ 0.40 Torr
Formula :C8 H8 Cl3 O3 P S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.1E+00
Distrib:	1.9E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	5.6E+00	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	5.6E+00	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.0E+03	mg/kg	RTECS
Dermal LD50:	5.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.9E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	2.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.62E+02
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.1E-02	Torr	CHEMFATE
Henry's Law:	1.9E-05	atm-m3/mol	CHEMFATE
Water Solub:	8.1E+02	mg/L	CHEMFATE
Distrib Coef:	8.2E-01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.7E+00		RTI_LOGP
Water Solub:	8.1E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :11.20° C
Boiling Point :234.50° C
Formula :C10 H10 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	8.1E+02
Distrib:	8.2E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Selenium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007782-49-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.8E+00	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	1.0E-03	mg/L	ACGIH
ACUTE			
Fresh AWQC:	2.0E+01	µg/L	WATCRIT
Salt AWQC:	3.0E+02	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	5.0E+00	µg/L	WATCRIT
Salt AWQC:	7.1E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.4E+02	µg/L	AQUIRE
Salt Ecol LC50:	6.7E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.90E+01
Density:	4.8E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	3.0E+02	ml/g	BAES_KD
Geo. Mean Sol.:	7.0E+05	mg/L	WEAST

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	5.7E+03		VER_BCF
Salt BCF:	1.2E+01		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	5.7E+03		VER_BCF
Salt BCF:	2.5E+01		VER_BCF
Log Kow:			
Water Solub:	7.0E+05	mg/L	

OTHER DATA

Melting Point :217.00° C
Boiling Point :684.00° C
Formula :Se

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	7.0E+05
Distrib:	3.0E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	2.0E+01	µg/L
Salt AWQC:	3.0E+02	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	5.0E+00	µg/L
Salt AWQC:	7.1E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+01	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.23E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :C H4 N2 Se

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+01	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	4.1E+00	µg/L	WATCRIT
Salt AWQC:	2.3E+00	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.5E+00	µg/L	AQUIRE
Salt Ecol LC50:	2.5E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.08E+02
Density:	1.0E+01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	8.3E+00	ml/g	SSG_KD
Geo. Mean Sol.:	6.9E-03	mg/L	WEAST; LANGE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.8E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.8E+01		VER_BCF
Salt BCF:			
Log Kow:			
Water Solub:	6.9E-03	mg/L	

OTHER DATA

Melting Point :962.00° C
Boiling Point :2212.00° C
Formula :Ag

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Silver

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-22-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	6.9E-03
Distrib:	8.3E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	4.1E+00	µg/L
Salt AWQC:	2.3E+00	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Silver 108m(+D) (radionuclide) CAS Number: 014391-65-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	6.1E-12	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	7.0E-11	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	4.6E+04	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	4.6E+04	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	1.08E+02
Density:	1.0E+01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	8.3E+00	ml/g	SSG_KD
Geo. Mean Sol.:	6.9E-03	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.8E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.8E+01		VER_BCF
Salt BCF:			
Log Kow:			
Water Solub:	6.9E-03	mg/L	

OTHER DATA

Melting Point :962.00° C
Boiling Point :2212.00° C
Formula :Ag-108m(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Silver
Other:	Silver

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.9E-03
Distrib:	8.3E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	6.8E-02	pCi/m3
DW:	7.9E+00	pCi/L
FC:	2.9E+02	pCi/kg
Soil Ing:	1.3E+05	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	8.4E-12	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	3.2E-11	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.5E+02	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.5E+02	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	1.10E+02
Density:	1.0E+01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	8.3E+00	ml/g	SSG_KD
Geo. Mean Sol.:	6.9E-03	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.8E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.8E+01		VER_BCF
Salt BCF:			
Log Kow:			
Water Solub:	6.9E-03	mg/L	

OTHER DATA

Melting Point :962.00° C
Boiling Point :2212.00° C
Formula :Ag-110m

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Silver
Other:	Silver

** This substance should be considered essentially non-volatile.

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Silver 110m (radionuclide) CAS Number: 014391-76-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.9E-03
Distrib:	8.3E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.5E-01	pCi/m3
DW:	5.6E+00	pCi/L
FC:	2.1E+02	pCi/kg
Soil Ing:	9.4E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Silver Cyanide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000506-64-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.34E+02
Density:	4.0E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	8.3E+00	ml/g	SSG_KD
Geo. Mean Sol.:	6.9E-03	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.8E+02		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.8E+02		AQUIRE
Salt BCF:			
Log Kow:			
Water Solub:	6.9E-03	mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Ag CN

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Silver
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Silver Cyanide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000506-64-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	6.9E-03
Distrib:	8.3E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.30E+01
Density:	9.7E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.0E+02	ml/g	BAES_KD
Geo. Mean Sol.:	5.1E+04	mg/L	WEAST

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	5.1E+04	mg/L	

OTHER DATA

Melting Point :97.82° C
Boiling Point :881.40° C
Formula :Na

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Sodium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-23-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	5.1E+04
Distrib:	1.0E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	8.0E-12	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	4.9E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	9.5E+02	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	9.5E+02	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.20E+01
Density:	9.7E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.0E+02	ml/g	BAES_KD
Geo. Mean Sol.:	5.1E+04	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	5.1E+04	mg/L	

OTHER DATA

Melting Point :97.82° C
Boiling Point :881.40° C
Formula :Na-22

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Sodium
Other:	Sodium

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Sodium 22 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013966-32-0

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	5.1E+04
Distrib:	1.0E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	9.8E-01	pCi/m3
DW:	5.9E+00	pCi/L
FC:	2.2E+02	pCi/kg
Soil Ing:	9.9E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Strontium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-24-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	Yes
Molecular Weight:	8.76E+01
Density:	2.6E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	3.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	2.5E+03	mg/L	LIDE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.5E+03	mg/L	

OTHER DATA

Melting Point :769.00° C
Boiling Point :1384.00° C
Formula :Sr

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

HRS Factor Values are assigned to radioactive isotopes but not to radioactive elements. Date for a radioactive element is used to derive factor values for that element's isotopes.

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Strontium 89 (radionuclide) CAS Number: 014158-27-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.0E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	3.7E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	5.1E+01	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	5.1E+01	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	8.89E+01
Density:	2.6E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	3.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	2.5E+03	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.5E+03	mg/L	

OTHER DATA

Melting Point :769.00° C
Boiling Point :1384.00° C
Formula :Sr-89

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Strontium
Other:	Strontium

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Strontium 89 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014158-27-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.5E+03
Distrib:	3.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.3E+00	pCi/m3
DW:	4.6E+00	pCi/L
FC:	1.7E+02	pCi/kg
Soil Ing:	7.7E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Strontium 90(+D) (radionuclide) CAS Number: 010098-97-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	5.6E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	6.9E-11	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	8.99E+01
Density:	2.6E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	3.5E+01	ml/g	BAES_KD
Geo. Mean Sol.:	2.5E+03	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.1E+04	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.1E+04	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.5E+03	mg/L	

OTHER DATA

Melting Point :769.00° C
Boiling Point :1384.00° C
Formula :Sr-90(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Strontium
Other:	Strontium

** This substance should be considered essentially non-volatile.

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Strontium 90(+D) (radionuclide) CAS Number: 010098-97-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.5E+03
Distrib:	3.5E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	6.9E-02	pCi/m3
DW:	8.5E-01	pCi/L
FC:	3.1E+01	pCi/kg
Soil Ing:	1.4E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.6E+01	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.7E+02	µg/L	AQUIRE
Salt Ecol LC50:	9.5E+02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.34E+02
Density:	1.4E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.0E-12	Torr	CHEMFATE
Henry's Law:	7.6E-14	atm-m3/mol	CHEMFATE
Water Solub:	1.6E+02	mg/L	CHEMFATE
Distrib Coef:	1.6E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	1.9E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.9E+00		RTI_LOGP
Water Solub:	1.6E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :287.00° C
Boiling Point :270.00° C @ 5.00 Torr
Formula :C21 H22 N2 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.6E+02
Distrib:	1.6E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Styrene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-42-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-01	mg/kg/day	IRIS
Inhal RfD:	2.9E-01	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.2E+02	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:	2.8E+03	ppm	ACGIH
Dust Inhal LC50:	1.2E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.0E+03	µg/L	AQUIRE
Salt Ecol LC50:	9.1E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.0E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.7E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	2.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.04E+02
Density:	9.1E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.1E+00	Torr	CHEMFATE
Henry's Law:	2.8E-03	atm-m3/mol	CHEMFATE
Water Solub:	3.1E+02	mg/L	LIVECHEM
Distrib Coef:	1.6E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.9E+00		RTI_LOGP
Water Solub:	3.1E+02	mg/L	LIVECHEM

OTHER DATA

Melting Point :-31.00° C
Boiling Point :145.00° C
Formula :C8 H8

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Styrene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000100-42-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	3.1E+02
Distrib:	1.6E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	1.0E+00	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.1E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.0E-02	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.2E+04	µg/L	AQUIRE
Salt Ecol LC50:	4.3E+04	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.81E+01
Density:	1.8E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.9E-05	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

OTHER DATA

Melting Point :10.36° C
Boiling Point :330.00° C
Formula :H2 O4 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.83E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.9E-07	Torr	CHEMEST
Henry's Law:	3.2E-11	atm-m3/mol	CHEMEST
Water Solub:	2.5E+00	mg/L	FATE
Distrib Coef:	1.0E+01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.8E+00		CHEMEST

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.8E+00		CHEMEST
Water Solub:	2.5E+00	mg/L	FATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C10 H9 Cl3 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	2.5E+00
Distrib:	1.0E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: TCDD

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001746-01-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+05	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.6E+05	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:	1.5E-06	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.5E-06	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.0E-03	mg/kg	C_EENV
Dermal LD50:	2.8E-01	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.3E-02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.6E+02	days	THOMAS
Photolysis:	3.4E+00	days	FATERATE
Biodeg:	5.9E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	2.3E+00	days	THOMAS
Photolysis:	3.4E+00	days	FATERATE
Biodeg:	5.9E+02	days	FATERATE
Radio:		days	
Log Kow:	6.5E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.22E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.5E-09	Torr	CHEMFATE
Henry's Law:	7.9E-05	atm-m3/mol	CHEMFATE
Water Solub:	7.9E-06	mg/L	FATE
Distrib Coef:	5.3E+03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	2.0E+03		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	4.2E+03		VER_BCF
Salt BCF:			
Log Kow:	6.5E+00		RTI_LOGP
Water Solub:	7.9E-06	mg/L	FATE

OTHER DATA

Melting Point :295.00° C
Boiling Point :
Formula :C12 H4 Cl4 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0002
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	7.9E-06
Distrib:	5.3E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.0E-11	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	3.0E-08	mg/L
Cancer Risk:	5.3E-10	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-06	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	3.0E-08	mg/L
Cancer Risk:	5.3E-10	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.0E-08	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Tetrachlorobenzene, 1,2,4,5- CAS Number: 000095-94-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+03	µg/L	AQUIRE
Salt Ecol LC50:	3.3E+02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.16E+02
Density:	1.9E+00 g/mL @ 22.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.4E-03	Torr	CHEMFATE
Henry's Law:	2.6E-03	atm-m3/mol	CHEMFATE
Water Solub:	5.9E-01	mg/L	CHEMFATE
Distrib Coef:	1.1E+01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.2E+05	days	FATERATE
Volatility:	1.4E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	4.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	4.1E+03		AQUIRE
Salt BCF:			
Log Kow:	4.6E+00		RTI_LOGP
Water Solub:	5.9E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :139.50° C
Boiling Point :244.50° C
Formula :C6 H2 Cl4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.2000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	5.9E-01
Distrib:	1.1E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Tetrachlorodibenzofuran, 2,3,7,8- CAS Number: 051207-31-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:	1.6E+04	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	B2		HEAST
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.06E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	1.5E-02	mg/L	CHEMCALC
Distrib Coef:	5.3E+03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	6.5E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	6.5E+00		RTI_LOGP
Water Solub:	1.5E-02	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :
Formula :C12 H4 Cl4 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.5E-02
Distrib:	5.3E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	5.3E-10	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	4.0E-05	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	5.3E-09	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.0E-07	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	2.6E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:	2.6E-02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	C		IRIS
Oral ED10:	1.2E+00	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	1.2E+00	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:	6.7E+02	mg/kg	RTECS
Dermal LD50:	2.0E+04	mg/kg	RTECS
Gas Inhal LC50:	2.1E+03	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.0E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.68E+02
Density:	1.5E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.2E+01	Torr	CHEMFATE
Henry's Law:	2.4E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.1E+03	mg/L	CHEMFATE
Distrib Coef:	2.9E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.7E+04	days	FATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.7E+04	days	FATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	2.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.6E+00		RTI_LOGP
Water Solub:	1.1E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-70.20° C
Boiling Point :130.50° C
Formula :C2 H2 Cl4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Tetrachloroethane, 1,1,1,2-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000630-20-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.1E+03
Distrib:	2.9E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	3.3E-04	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.3E-03	mg/L
Non Cancer Risk:	1.1E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.5E+01	mg/kg
Non Cancer Risk:	2.3E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	3.3E-03	mg/L
Non Cancer Risk:	1.1E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.2E-01	mg/kg
Non Cancer Risk:	4.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Tetrachloroethane, 1,1,2,2- CAS Number: 000079-34-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.0E-01	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:	2.0E-01	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	C		IRIS
Oral ED10:	6.0E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	6.0E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:	2.0E+02	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:	6.6E+02	ppm	ACGIH
Dust Inhal LC50:	1.9E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	9.3E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.2E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	9.8E+01	days	FATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	9.8E+01	days	FATE
Volatility:	1.3E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	2.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.68E+02
Density:	1.6E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.6E+00	Torr	CHEMFATE
Henry's Law:	3.5E-04	atm-m3/mol	CHEMFATE
Water Solub:	3.0E+03	mg/L	FATE
Distrib Coef:	1.9E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	8.0E+00		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	8.0E+00		VER_BCF
Salt BCF:			
Log Kow:	2.4E+00		RTI_LOGP
Water Solub:	3.0E+03	mg/L	FATE

OTHER DATA

Melting Point :-43.80° C
Boiling Point :146.50° C
Formula :C2 H2 Cl4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Tetrachloroethane, 1,1,2,2- CAS Number: 000079-34-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	3.0E+03
Distrib:	1.9E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	4.2E-05	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.3E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	3.2E+00	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.3E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.6E-02	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Tetrachloroethylene CAS Number: 000127-18-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	5.2E-02	(mg/kg/day)^-1	LIVECHEM
Oral Wt-of-Evid:	B2		LIVECHEM
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	3.4E+00	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	3.4E+00	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.6E+03	mg/kg	C_EENV
Dermal LD50:	3.2E+03	mg/kg	RTECS
Gas Inhal LC50:	6.0E+03	ppm	ACGIH
Dust Inhal LC50:	3.4E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E+03	µg/L	AQUIRE
Salt Ecol LC50:	2.9E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.6E+11	days	FATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.6E+11	days	FATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
Log Kow:	2.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.66E+02
Density:	1.6E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.9E+01	Torr	CHEMFATE
Henry's Law:	1.8E-02	atm-m3/mol	CHEMFATE
Water Solub:	2.0E+02	mg/L	LIVECHEM
Distrib Coef:	3.1E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	4.9E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	4.9E+01		VER_BCF
Salt BCF:			
Log Kow:	2.7E+00		RTI_LOGP
Water Solub:	2.0E+02	mg/L	LIVECHEM

OTHER DATA

Melting Point :-22.30° C
Boiling Point :121.30° C
Formula :C2 Cl4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.0E+02
Distrib:	3.1E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	1.6E-03	mg/L
Non Cancer Risk:	3.7E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.2E+01	mg/kg
Non Cancer Risk:	7.8E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	1.6E-03	mg/L
Non Cancer Risk:	3.7E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	6.1E-02	mg/kg
Non Cancer Risk:	1.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.4E+02	mg/kg	RTECS
Dermal LD50:	2.5E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.4E+02	µg/L	AQUIRE
Salt Ecol LC50:	1.1E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.4E+02	days	THOMAS
Photolysis:	1.4E+01	days	FATERATE
Biodeg:	1.7E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.9E+00	days	THOMAS
Photolysis:	1.4E+01	days	FATERATE
Biodeg:	1.7E+02	days	FATERATE
Radio:		days	
Log Kow:	4.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.32E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.4E-03	Torr	CHEMFATE
Henry's Law:	4.4E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+02	mg/L	CHEMFATE
Distrib Coef:	5.6E-01	ml/g	RTI_ION
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	5.9E+02		AQUIRE
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.5E+03		AQUIRE
Salt BCF:			
Log Kow:	4.4E+00		RTI_LOGP
Water Solub:	1.0E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :70.00° C
Boiling Point :150.00° C @ 15.00 Torr
Formula :C6 H2 Cl4 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.0E+02
Distrib:	5.6E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-07	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.7E+01	mg/kg	ACGIH
Dermal LD50:	7.0E+02	mg/kg	ACGIH
Gas Inhal LC50:	1.4E+03	ppm	ACGIH
Dust Inhal LC50:	8.5E-01	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.4E+03	µg/L	AQUIRE
Salt Ecol LC50:	2.0E+01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.23E+02
Density:	1.7E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.9E-01	Torr	CHEMFATE
Henry's Law:	7.2E-01	atm-m3/mol	CHEMFATE
Water Solub:	2.9E-01	mg/L	CHEMFATE
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	6.0E-01	days	FATERATE
Volatility:	1.6E+02	days	THOMAS
Photolysis:	3.8E-01	days	FATERATE
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	6.0E-01	days	FATERATE
Volatility:	1.7E+00	days	THOMAS
Photolysis:	3.8E-01	days	FATERATE
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	

Log Kow:

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:	6.5E+02		VER_BCF
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	6.5E+02		VER_BCF
Log Kow:			
Water Solub:	2.9E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C8 H20 Pb

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Tetraethyl lead

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000078-00-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.9E-01
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0700
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-06	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E-03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-06	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E-04	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Tetraethyldithiopyrophosphate CAS Number: 003689-24-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.0E+00	mg/kg	ACGIH
Dermal LD50:	2.0E+01	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.8E-02	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.0E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.22E+02
Density:	1.2E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.7E-04	Torr	LIVECHEM
Henry's Law:		atm-m3/mol	
Water Solub:	2.5E+01	mg/L	CHEMCALC
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	2.5E+01	mg/L	CHEMCALC

OTHER DATA

Melting Point :
Boiling Point :137.50° C @ 2.00 Torr
Formula :C8 H20 O5 P2 S2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Tetraethyldithiopyrophosphate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 003689-24-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	2.5E+01
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Tetrahydrofuran

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000109-99-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.0E+03	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:	2.1E+04	ppm	RTECS
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.2E+06	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	7.5E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	8.9E-01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	4.6E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.21E+01
Density:	8.9E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.6E+02	Torr	CHEMFATE
Henry's Law:	2.4E-04	atm-m3/mol	CHEMEST
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	5.7E-03	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.6E-01		RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :-108.30° C
Boiling Point :65.00° C
Formula :C4 H8 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Tetrahydrofuran

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000109-99-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.0E+06
Distrib:	5.7E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+00	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+05	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.04E+02
Density:	1.2E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:	8.8E+02	mg/L	WEAST; LANGE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.3E+02		VER_BCF
Salt BCF:	1.8E+01		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.3E+02		VER_BCF
Salt BCF:	1.8E+01		VER_BCF
Log Kow:			
Water Solub:	8.8E+02	mg/L	

OTHER DATA

Melting Point :303.50° C
Boiling Point :1457.00° C
Formula :Tl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	8.8E+02
Distrib:	1.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-04	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-04	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Thallium 204 (radionuclide) CAS Number: 013968-51-9

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.0E-12	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.2E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.4E+03	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.4E+03	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.04E+02
Density:	1.2E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+03	ml/g	BAES_KD
Geo. Mean Sol.:	8.8E+02	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.3E+02		VER_BCF
Salt BCF:	1.8E+01		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	1.3E+02		VER_BCF
Salt BCF:	1.8E+01		VER_BCF
Log Kow:			
Water Solub:	8.8E+02	mg/L	

OTHER DATA

Melting Point :303.50° C
Boiling Point :1457.00° C
Formula :Tl-204

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Thallium
Other:	Thallium

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Thallium 204 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013968-51-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	8.8E+02
Distrib:	1.5E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	4.1E+00	pCi/m3
DW:	2.4E+01	pCi/L
FC:	8.9E+02	pCi/kg
Soil Ing:	4.0E+05	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Thiourea CAS Number: 000062-56-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	9.5E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	9.5E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.3E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	9.0E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	7.61E+01
Density:	1.4E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.5E-08	Torr	CHEMFATE
Henry's Law:	1.3E-10	atm-m3/mol	CHEMFATE
Water Solub:	1.4E+05	mg/L	CHEMFATE
Distrib Coef:	1.9E-04	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	5.5E+04	days	CHEMFATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	5.5E+04	days	CHEMFATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	-1.0E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	-1.0E+00		RTI_LOGP
Water Solub:	1.4E+05	mg/L	CHEMFATE

OTHER DATA

Melting Point :182.00° C
Boiling Point :
Formula :C H4 N2 S

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Thiourea

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000062-56-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0002
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.4E+05
Distrib:	1.9E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.1E+02	mg/kg	ACGIH
Dermal LD50:	5.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.0E-01	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.0E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.0E+01	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.40E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:	3.0E+01	mg/L	CHEMFATE
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	3.0E+01	mg/L	CHEMFATE

OTHER DATA

Melting Point :155.60° C
Boiling Point :129.00° C @ 20.00 Torr
Formula :C6 H12 N2 S4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.0E+01
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	4.0E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	4.3E-09	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.9E+01	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.9E+01	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.27E+02
Density:	1.2E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+05	ml/g	BAES_KD
Geo. Mean Sol.:	6.5E+02	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.5E+02	mg/L	

OTHER DATA

Melting Point :1842.00° C
Boiling Point :
Formula :Th-227

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Thorium 232 (radionuclide)
Other:	Thorium 232 (radionuclide)

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Thorium 227 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 015623-47-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.5E+02
Distrib:	1.5E+05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	1.1E-03	pCi/m3
DW:	1.2E+00	pCi/L
FC:	4.4E+01	pCi/kg
Soil Ing:	2.0E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	2.3E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	9.7E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.28E+02
Density:	1.2E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+05	ml/g	BAES_KD
Geo. Mean Sol.:	6.5E+02	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	7.0E+02	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	7.0E+02	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.5E+02	mg/L	

OTHER DATA

Melting Point :1842.00° C
Boiling Point :
Formula :Th-228(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Thorium 232 (radionuclide)
Other:	Thorium 232 (radionuclide)

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.5E+02
Distrib:	1.5E+05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	4.9E-05	pCi/m3
DW:	2.1E-01	pCi/L
FC:	7.6E+00	pCi/kg
Soil Ing:	3.4E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.6E-10	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	8.3E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.29E+02
Density:	1.2E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+05	ml/g	BAES_KD
Geo. Mean Sol.:	6.5E+02	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.7E+06	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.7E+06	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.5E+02	mg/L	

OTHER DATA

Melting Point :1842.00° C
Boiling Point :
Formula :Th-229(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Thorium 232 (radionuclide)
Other:	Thorium 232 (radionuclide)

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.5E+02
Distrib:	1.5E+05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	5.8E-05	pCi/m3
DW:	1.3E-01	pCi/L
FC:	4.9E+00	pCi/kg
Soil Ing:	2.2E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Thorium 230 (radionuclide) CAS Number: 014269-63-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.8E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.7E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.30E+02
Density:	1.2E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+05	ml/g	BAES_KD
Geo. Mean Sol.:	6.5E+02	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.8E+07	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.8E+07	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.5E+02	mg/L	

OTHER DATA

Melting Point :1842.00° C
Boiling Point :
Formula :Th-230

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Thorium 232 (radionuclide)
Other:	Thorium 232 (radionuclide)

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.5E+02
Distrib:	1.5E+05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	2.8E-04	pCi/m3
DW:	1.3E+00	pCi/L
FC:	4.7E+01	pCi/kg
Soil Ing:	2.1E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.8E-12	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.1E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.1E+00	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.1E+00	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.31E+02
Density:	1.2E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+05	ml/g	BAES_KD
Geo. Mean Sol.:	6.5E+02	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.5E+02	mg/L	

OTHER DATA

Melting Point :1842.00° C
Boiling Point :
Formula :Th-231

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Thorium 232 (radionuclide)
Other:	Thorium 232 (radionuclide)

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	6.5E+02
Distrib:	1.5E+05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	4.3E+00	pCi/m3
DW:	2.7E+01	pCi/L
FC:	9.8E+02	pCi/kg
Soil Ing:	4.4E+05	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.3E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.9E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.32E+02
Density:	1.2E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+05	ml/g	BAES_KD
Geo. Mean Sol.:	6.5E+02	mg/L	LIDE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	5.1E+12	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	5.1E+12	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.5E+02	mg/L	

OTHER DATA

Melting Point :1842.00° C
Boiling Point :
Formula :Th-232

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.5E+02
Distrib:	1.5E+05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	2.5E-04	pCi/m3
DW:	1.5E+00	pCi/L
FC:	5.4E+01	pCi/kg
Soil Ing:	2.4E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.9E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.9E-11	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.4E+01	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.4E+01	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.34E+02
Density:	1.2E+01 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.5E+05	ml/g	BAES_KD
Geo. Mean Sol.:	6.5E+02	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.5E+02	mg/L	

OTHER DATA

Melting Point :1842.00° C
Boiling Point :
Formula :Th-234

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Thorium 232 (radionuclide)
Other:	Thorium 232 (radionuclide)

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Thorium 234 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 015065-10-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	6.5E+02
Distrib:	1.5E+05

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	2.5E-01	pCi/m3
DW:	2.5E+00	pCi/L
FC:	9.1E+01	pCi/kg
Soil Ing:	4.1E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Toluene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-88-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-01	mg/kg/day	IRIS
Inhal RfD:	1.1E-01	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+03	mg/kg	C_EENV
Dermal LD50:	1.2E+04	mg/kg	ACGIH
Gas Inhal LC50:	5.3E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.5E+03	µg/L	AQUIRE
Salt Ecol LC50:	6.2E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	9.21E+01
Density:	8.7E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.8E+01	Torr	CHEMFATE
Henry's Law:	6.6E-03	atm-m3/mol	CHEMFATE
Water Solub:	5.3E+02	mg/L	LIVECHEM
Distrib Coef:	3.6E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:	3.1E+01		AQUIRE
Log Kow:	2.8E+00		RTI_LOGP
Water Solub:	5.3E+02	mg/L	LIVECHEM

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	8.4E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.2E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.1E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.2E+01	days	FATERATE
Radio:		days	
Log Kow:	2.8E+00		RTI_LOGP

OTHER DATA

Melting Point :-94.90° C
Boiling Point :110.60° C
Formula :C7 H8

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	5.3E+02
Distrib:	3.6E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	4.2E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E+00	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E+00	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:	2.0E-05	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.8E+03	mg/kg	ACGIH
Dermal LD50:	1.6E+04	mg/kg	RTECS
Gas Inhal LC50:	9.7E+00	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.6E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.74E+02
Density:	1.2E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.0E-03	Torr	CHEMFATE
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :20.50° C
Boiling Point :251.00° C
Formula :C9 H6 N2 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Toluene diisocyanate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000584-84-9

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	7.3E-05	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Toluenediamine, 2,4- CAS Number: 000095-80-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	3.2E+00	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.4E+06	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.22E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E-04	Torr	CHEMFATE
Henry's Law:	7.9E-10	atm-m3/mol	CHEMFATE
Water Solub:	3.4E+04	mg/L	CHEMFATE
Distrib Coef:	4.9E-03	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	4.0E-01		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.0E-01		RTI_LOGP
Water Solub:	3.4E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :99.00° C
Boiling Point :292.00° C
Formula :C7 H10 N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Toluenediamine, 2,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000095-80-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	3.4E+04
Distrib:	4.9E-03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.7E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.0E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.7E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	9.8E-04	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	1.4E+01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.4E+01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	5.2E+02	mg/kg	C_EENV
Dermal LD50:	3.3E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.2E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.07E+02
Density:	10.0E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.2E-01	Torr	CHEMFATE
Henry's Law:	2.7E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.7E+04	mg/L	CHEMFATE
Distrib Coef:	4.2E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.0E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.0E+01	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	1.3E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.3E+00		RTI_LOGP
Water Solub:	1.7E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-16.30° C
Boiling Point :200.30° C
Formula :C7 H9 N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.7E+04
Distrib:	4.2E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.9E-01	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	C		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	1.1E+00	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	1.1E+00	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:	6.6E+02	mg/kg	ACGIH
Dermal LD50:	8.9E+02	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	6.4E-01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.5E+05	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.07E+02
Density:	9.6E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.8E-01	Torr	CHEMCALC
Henry's Law:		atm-m3/mol	
Water Solub:	7.8E+02	mg/L	CHEMCALC
Distrib Coef:	4.8E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.4E+00		RTI_LOGP
Water Solub:	7.8E+02	mg/L	CHEMCALC

OTHER DATA

Melting Point :43.70° C
Boiling Point :200.40° C
Formula :C7 H9 N

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	7.8E+02
Distrib:	4.8E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.5E-04	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	3.4E+00	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	4.5E-04	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.7E-02	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.1E+00	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	1.1E+00	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	1.0E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.0E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	1.5E+01	mg/kg	C_EENV
Dermal LD50:	6.0E+02	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.0E-02	mg/L	ACGIH
ACUTE			
Fresh AWQC:	7.3E-01	µg/L	WATCRIT
Salt AWQC:	2.1E-01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	2.0E-04	µg/L	WATCRIT
Salt AWQC:	2.0E-04	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.0E-01	µg/L	AQUIRE
Salt Ecol LC50:	5.3E-01	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	4.13E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.8E-07	Torr	CHEMFATE
Henry's Law:	6.0E-06	atm-m3/mol	CHEMFATE
Water Solub:	7.4E-01	mg/L	CHEMFATE
Distrib Coef:	5.1E+02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.7E+03	days	FATE
Volatility:	1.9E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.7E+03	days	FATE
Volatility:	1.0E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	5.5E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	4.0E+04		VER_BCF
Salt BCF:	3.3E+04		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	5.2E+04		VER_BCF
Salt BCF:	3.3E+04		VER_BCF
Log Kow:	5.5E+00		RTI_LOGP
Water Solub:	7.4E-01	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C10 H10 Cl8

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0020
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	7.4E-01
Distrib:	5.1E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	7.6E-06	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	3.0E-03	mg/L
Cancer Risk:	7.7E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	5.8E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	3.0E-03	mg/L
Cancer Risk:	7.7E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.9E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	7.3E-01	µg/L
Salt AWQC:	2.1E-01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	2.0E-04	µg/L
Salt AWQC:	2.0E-04	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	8.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.5E+02	mg/kg	RTECS
Dermal LD50:	3.2E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.4E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.8E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.70E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.5E-07	Torr	CHEMEST
Henry's Law:	7.8E-11	atm-m3/mol	CHEMEST
Water Solub:	1.4E+02	mg/L	LIVECHEM
Distrib Coef:	1.1E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.8E+00		RTI_LOGP
Water Solub:	1.4E+02	mg/L	LIVECHEM

OTHER DATA

Melting Point :181.60° C
Boiling Point :
Formula :C9 H7 Cl3 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: TP, 2,4,5-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000093-72-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	1.4E+02
Distrib:	1.1E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	6.3E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.9E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.1E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Tribromomethane CAS Number: 000075-25-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	7.9E-03	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	3.9E-03	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.1E+03	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:	5.2E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.9E+04	µg/L	AQUIRE
Salt Ecol LC50:	7.1E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.5E+05	days	FATERATE
Volatility:	1.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.5E+05	days	FATERATE
Volatility:	1.6E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	2.4E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.53E+02
Density:	2.9E+00 g/mL @ 15.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	5.5E+00	Torr	CHEMFATE
Henry's Law:	5.4E-04	atm-m3/mol	LIVECHEM
Water Solub:	3.1E+03	mg/L	CHEMFATE
Distrib Coef:	1.7E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.4E+00		RTI_LOGP
Water Solub:	3.1E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :8.00° C
Boiling Point :149.10° C
Formula :C H Br3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.1E+03
Distrib:	1.7E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	2.2E-03	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:	1.1E-02	mg/L
Non Cancer Risk:	7.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.1E+01	mg/kg
Non Cancer Risk:	1.6E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E-01	mg/L
Cancer Risk:	1.1E-02	mg/L
Non Cancer Risk:	7.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.0E-01	mg/kg
Non Cancer Risk:	2.7E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E+01	mg/kg/day	IRIS
Inhal RfD:	8.6E+00	mg/kg/day	NEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	4.3E+04	mg/kg	ACGIH
Dermal LD50:	1.1E+04	mg/kg	ACGIH
Gas Inhal LC50:	5.0E+04	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.87E+02
Density:	1.6E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.3E+02	Torr	CHEMFATE
Henry's Law:	4.8E-01	atm-m3/mol	CHEMFATE
Water Solub:	1.7E+02	mg/L	CHEMFATE
Distrib Coef:	7.6E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+00	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
Log Kow:	3.2E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.2E+00		RTI_LOGP
Water Solub:	1.7E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :-35.00° C
Boiling Point :47.70° C
Formula :C2 Cl3 F3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.7E+02
Distrib:	7.6E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	3.1E+01	mg/m3 ,

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+06	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+04	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Trichlorobenzene, 1,2,4- CAS Number: 000120-82-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-02	mg/kg/day	IRIS
Inhal RfD:	5.7E-02	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.0E+02	mg/kg	C_EENV
Dermal LD50:	6.1E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	9.3E+02	µg/L	AQUIRE
Salt Ecol LC50:	5.4E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.3E+05	days	FATE
Volatility:	1.2E+02	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.3E+05	days	FATE
Volatility:	1.3E+00	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	4.0E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.81E+02
Density:	1.5E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.3E-01	Torr	CHEMFATE
Henry's Law:	1.4E-03	atm-m3/mol	CHEMFATE
Water Solub:	3.5E+01	mg/L	LIVECHEM
Distrib Coef:	3.6E+00	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.8E+02		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.8E+02		VER_BCF
Salt BCF:			
Log Kow:	4.0E+00		RTI_LOGP
Water Solub:	3.5E+01	mg/L	LIVECHEM

OTHER DATA

Melting Point :17.00° C
Boiling Point :213.50° C
Formula :C6 H3 Cl3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Trichlorobenzene, 1,2,4-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000120-82-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	3.5E+01
Distrib:	3.6E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	7.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	7.0E-02	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	7.5E+02	mg/kg	C_EENV
Dermal LD50:	1.6E+04	mg/kg	ACGIH
Gas Inhal LC50:	1.4E+04	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.0E+04	µg/L	AQUIRE
Salt Ecol LC50:	6.8E+04	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.33E+02
Density:	1.3E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.2E+02	Torr	CHEMFATE
Henry's Law:	1.7E-02	atm-m3/mol	CHEMFATE
Water Solub:	1.3E+03	mg/L	FATE
Distrib Coef:	2.2E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	9.0E+00		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	9.0E+00		VER_BCF
Salt BCF:			
Log Kow:	2.5E+00		RTI_LOGP
Water Solub:	1.3E+03	mg/L	FATE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.0E+02	days	FATE
Volatility:	1.0E+02	days	THOMAS
Photolysis:		days	
Biodeg:	2.7E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.0E+02	days	FATE
Volatility:	1.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:	2.7E+02	days	FATERATE
Radio:		days	
Log Kow:	2.5E+00		RTI_LOGP

OTHER DATA

Melting Point :-30.40° C
Boiling Point :74.00° C
Formula :C2 H3 Cl3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.3E+03
Distrib:	2.2E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	4.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	5.7E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:	5.6E-02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	C		IRIS
Oral ED10:	2.8E+00	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	C		EPA_ED10
Inhal ED10:	2.8E+00	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	C		EPA_ED10
Oral LD50:	3.8E+02	mg/kg	C_EENV
Dermal LD50:	1.0E+03	mg/kg	ACGIH
Gas Inhal LC50:	5.0E+02	ppm	ACGIH
Dust Inhal LC50:	1.3E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.8E+04	µg/L	AQUIRE
Salt Ecol LC50:	3.4E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	5.1E+04	days	FATE
Volatility:	1.0E+02	days	THOMAS
Photolysis:		days	
Biodeg:	3.7E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	5.1E+04	days	FATE
Volatility:	1.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:	3.7E+02	days	FATERATE
Radio:		days	
Log Kow:	2.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.33E+02
Density:	1.4E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.3E+01	Torr	CHEMFATE
Henry's Law:	9.1E-04	atm-m3/mol	CHEMFATE
Water Solub:	4.4E+03	mg/L	CHEMFATE
Distrib Coef:	1.0E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.1E+00		RTI_LOGP
Water Solub:	4.4E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-36.60° C
Boiling Point :113.80° C
Formula :C2 H3 Cl3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	4.4E+03
Distrib:	1.0E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	1.5E-04	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	3.0E-03	mg/L
Cancer Risk:	1.5E-03	mg/L
Non Cancer Risk:	1.5E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	1.1E+01	mg/kg
Non Cancer Risk:	3.1E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	3.0E-03	mg/L
Cancer Risk:	1.5E-03	mg/L
Non Cancer Risk:	1.5E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	5.5E-02	mg/kg
Non Cancer Risk:	5.4E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.1E-02	(mg/kg/day)^-1	LIVECHEM
Oral Wt-of-Evid:	B2		LIVECHEM
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	1.0E+01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.0E+01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	2.4E+03	mg/kg	C_EENV
Dermal LD50:	2.0E+04	mg/kg	RTECS
Gas Inhal LC50:	8.4E+03	ppm	RTECS
Dust Inhal LC50:	3.3E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.9E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.4E+04	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.31E+02
Density:	1.5E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.3E+01	Torr	CHEMFATE
Henry's Law:	1.0E-02	atm-m3/mol	CHEMFATE
Water Solub:	1.1E+03	mg/L	LIVECHEM
Distrib Coef:	3.3E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	4.7E+08	days	FATE
Volatility:	1.0E+02	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	4.7E+08	days	FATE
Volatility:	1.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
Log Kow:	2.7E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.7E+01		VER_BCF
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.7E+01		VER_BCF
Salt BCF:			
Log Kow:	2.7E+00		RTI_LOGP
Water Solub:	1.1E+03	mg/L	LIVECHEM

OTHER DATA

Melting Point :-84.70° C
Boiling Point :87.20° C
Formula :C2 H Cl3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Trichloroethylene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000079-01-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.1E+03
Distrib:	3.3E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	7.7E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	5.8E+01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	5.0E-03	mg/L
Cancer Risk:	7.7E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.9E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Trichlorofluoromethane CAS Number: 000075-69-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-01	mg/kg/day	IRIS
Inhal RfD:	2.0E-01	mg/kg/day	HEAST
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.7E+03	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:	1.3E+05	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.37E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.0E+02	Torr	CHEMFATE
Henry's Law:	9.7E-02	atm-m3/mol	CHEMFATE
Water Solub:	1.1E+03	mg/L	CHEMFATE
Distrib Coef:	2.4E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.0E+02	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+00	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
Log Kow:	2.5E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.5E+00		RTI_LOGP
Water Solub:	1.1E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-111.10° C
Boiling Point :23.70° C
Formula :C Cl3 F

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.1E+03
Distrib:	2.4E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	7.3E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.0E+02	µg/L	AQUIRE
Salt Ecol LC50:	2.3E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	6.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.8E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.97E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.6E-04	Torr	CHEMCALC
Henry's Law:	7.0E-06	atm-m3/mol	CHEMEST
Water Solub:	4.4E+00	mg/L	CHEMCALC
Distrib Coef:	1.2E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.8E+00		RTI_LOGP
Water Solub:	4.4E+00	mg/L	CHEMCALC

OTHER DATA

Melting Point :62.00° C
Boiling Point :248.50° C @ 250.00 Torr
Formula :C6 H3 Cl3 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	4.4E+00
Distrib:	1.2E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Trichlorophenol, 2,3,6-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000933-75-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:	2.1E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	1.1E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	3.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.97E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E-04	Torr	CHEMEST
Henry's Law:	3.4E-06	atm-m3/mol	CHEMEST
Water Solub:	5.9E+00	mg/L	CHEMCALC
Distrib Coef:	8.7E+00	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.7E+00		RTI_LOGP
Water Solub:	5.9E+00	mg/L	CHEMCALC

OTHER DATA

Melting Point :58.00° C
Boiling Point :
Formula :C6 H3 Cl3 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Trichlorophenol, 2,3,6-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000933-75-5

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	5.9E+00
Distrib:	8.7E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Trichlorophenol, 2,4,5- CAS Number: 000095-95-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-01	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	8.2E+02	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.5E+02	µg/L	AQUIRE
Salt Ecol LC50:	1.7E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.9E+09	days	FATERATE
Volatility:	1.3E+02	days	THOMAS
Photolysis:	1.4E+01	days	FATERATE
Biodeg:	6.9E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.9E+09	days	FATERATE
Volatility:	9.3E+00	days	THOMAS
Photolysis:	1.4E+01	days	FATERATE
Biodeg:	6.9E+02	days	FATERATE
Radio:		days	
Log Kow:	3.9E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.97E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E-02	Torr	CHEMFATE
Henry's Law:	4.3E-06	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+03	mg/L	CHEMFATE
Distrib Coef:	3.2E+00	ml/g	RTI_ION
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.9E+03		AQUIRE
Salt BCF:			
Log Kow:	3.9E+00		RTI_LOGP
Water Solub:	1.2E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :69.00° C
Boiling Point :247.00° C
Formula :C6 H3 Cl3 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.2E+03
Distrib:	3.2E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Trichlorophenol, 2,4,6- CAS Number: 000088-06-2

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.1E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	B2		IRIS
Inhal Slope:	1.1E-02	(mg/kg/day)^-1	IRIS
Inhal Wt-of-Evid:	B2		IRIS
Oral ED10:	1.3E+01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.3E+01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	8.2E+02	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.8E+02	µg/L	AQUIRE
Salt Ecol LC50:	1.4E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.9E+09	days	FATERATE
Volatility:	1.3E+02	days	THOMAS
Photolysis:	4.0E+00	days	FATERATE
Biodeg:	7.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.9E+09	days	FATERATE
Volatility:	5.8E+00	days	THOMAS
Photolysis:	4.0E+00	days	FATERATE
Biodeg:	7.0E+01	days	FATERATE
Radio:		days	
Log Kow:	3.7E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.97E+02
Density:	1.5E+00 g/mL @ 75.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.4E-02	Torr	CHEMFATE
Henry's Law:	7.8E-06	atm-m3/mol	CHEMFATE
Water Solub:	8.0E+02	mg/L	CHEMFATE
Distrib Coef:	7.6E-01	ml/g	RTI_ION
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.2E+04		AQUIRE
Salt BCF:			
Log Kow:	3.7E+00		RTI_LOGP
Water Solub:	8.0E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :69.00° C
Boiling Point :246.00° C
Formula :C6 H3 Cl3 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Trichlorophenol, 2,4,6-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000088-06-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.2000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	8.0E+02
Distrib:	7.6E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	7.9E-04	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.7E-03	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	5.8E+01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	7.7E-03	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	2.9E-01	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.9E+02	µg/L	AQUIRE
Salt Ecol LC50:	2.3E+03	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.97E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.2E-04	Torr	CHEMCALC
Henry's Law:	1.5E-05	atm-m3/mol	CHEMEST
Water Solub:	2.1E+00	mg/L	CHEMCALC
Distrib Coef:	2.6E+01	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	4.2E+00		RTI_LOGP
Water Solub:	2.1E+00	mg/L	CHEMCALC

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.3E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.7E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	4.2E+00		RTI_LOGP

OTHER DATA

Melting Point :101.00° C
Boiling Point :275.00° C
Formula :C6 H3 Cl3 O

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	...
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	...
Water Solub:	2.1E+00
Distrib:	2.6E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	...

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Trichlorophenoxyacetic acid, 2,4,5- CAS Number: 000093-76-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.0E+02	mg/kg	ACGIH
Dermal LD50:	1.5E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.3E+01	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+04	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.55E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.5E-07	Torr	CHEMFATE
Henry's Law:	8.7E-09	atm-m3/mol	CHEMFATE
Water Solub:	2.7E+02	mg/L	CHEMFATE
Distrib Coef:	6.8E-02	ml/g	RTI_ION
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	4.5E+01	days	FATERATE
Biodeg:	2.0E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	4.5E+01	days	FATERATE
Biodeg:	2.0E+01	days	FATERATE
Radio:		days	
Log Kow:	3.3E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	1.7E+02		AQUIRE
Salt BCF:			
Log Kow:	3.3E+00		RTI_LOGP
Water Solub:	2.7E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :153.00° C
Boiling Point :
Formula :C8 H5 Cl3 O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	2.7E+02
Distrib:	6.8E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Trichloropropane, 1,2,3- CAS Number: 000096-18-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	6.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	7.0E+00	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	B2		HEAST
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	3.4E+02	mg/kg	ACGIH
Dermal LD50:	2.5E+03	mg/kg	ACGIH
Gas Inhal LC50:	3.4E+02	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.7E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	1.5E+04	days	FATE
Volatility:	1.1E+02	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	1.5E+04	days	FATE
Volatility:	1.2E+00	days	THOMAS
Photolysis:		days	
Biodeg:	3.6E+02	days	FATERATE
Radio:		days	
Log Kow:	2.3E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.47E+02
Density:	1.4E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.7E+00	Torr	CHEMFATE
Henry's Law:	4.1E-04	atm-m3/mol	CHEMFATE
Water Solub:	1.8E+03	mg/L	CHEMFATE
Distrib Coef:	1.5E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.3E+00		RTI_LOGP
Water Solub:	1.8E+03	mg/L	CHEMFATE

OTHER DATA

Melting Point :-14.70° C
Boiling Point :157.00° C
Formula :C3 H5 Cl3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Trichloropropane, 1,2,3-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000096-18-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.8E+03
Distrib:	1.5E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-05	mg/L
Non Cancer Risk:	2.2E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	9.1E-02	mg/kg
Non Cancer Risk:	4.7E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.2E-05	mg/L
Non Cancer Risk:	2.2E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.5E-04	mg/kg
Non Cancer Risk:	8.1E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Triethanolamine CAS Number: 000102-71-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.8E+03	mg/kg	RTECS
Dermal LD50:	2.2E+04	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.4E+06	µg/L	AQUIRE
Salt Ecol LC50:	1.0E+05	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.49E+02
Density:	1.1E+00 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.6E-06	Torr	CHEMFATE
Henry's Law:	0.0E+00	atm-m3/mol	CHEMFATE
Water Solub:	1.0E+06	mg/L	CHEMFATE
Distrib Coef:	2.1E-04	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			RTI_LOGP
Water Solub:	1.0E+06	mg/L	CHEMFATE

OTHER DATA

Melting Point :20.50° C
Boiling Point :335.40° C
Formula :C6 H15 N O3

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Triethanolamine

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000102-71-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.0E+06
Distrib:	2.1E-04

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Trifluralin

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001582-09-8

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	7.5E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	7.7E-03	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+03	mg/kg	C_EENV
Dermal LD50:	5.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	2.8E+00	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	4.1E+01	µg/L	AQUIRE
Salt Ecol LC50:	3.0E+02	µg/L	AQUIRE

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.35E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	4.9E-05	Torr	CHEMFATE
Henry's Law:	2.6E-05	atm-m3/mol	CHEMFATE
Water Solub:	8.1E+00	mg/L	CHEMFATE
Distrib Coef:	3.9E+01	ml/g	SSG_KD
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	1.6E+02	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	3.4E+00	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	5.3E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.4E+04		AQUIRE
Salt BCF:			
Log Kow:	5.3E+00		RTI_LOGP
Water Solub:	8.1E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :49.00° C
Boiling Point :140.00° C @ 4.20 Torr
Formula :C13 H16 F3 N3 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Trifluralin

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001582-09-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	8.1E+00
Distrib:	3.9E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5000.0
Salt:	5000.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-02	mg/L
Non Cancer Risk:	2.7E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	8.3E+01	mg/kg
Non Cancer Risk:	5.9E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	1.1E-02	mg/L
Non Cancer Risk:	2.7E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	4.1E-01	mg/kg
Non Cancer Risk:	1.0E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Trinitrobenzene, 1,3,5- CAS Number: 000099-35-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-05	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.8E+02	mg/kg	RTECS
Dermal LD50:	2.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	3.8E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	1.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.13E+02
Density:	1.5E+00 g/mL @ 152.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E-05	Torr	CHEMCALC
Henry's Law:	1.6E-08	atm-m3/mol	CHEMEST
Water Solub:	3.5E+02	mg/L	LIVECHEM
Distrib Coef:	2.9E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.2E+00		RTI_LOGP
Water Solub:	3.5E+02	mg/L	LIVECHEM

OTHER DATA

Melting Point :121.50° C
Boiling Point :315.00° C
Formula :C6 H3 N3 O6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Trinitrobenzene, 1,3,5-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000099-35-4

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0200
Gas Migration:	6

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	3.5E+02
Distrib:	2.9E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	0.4000
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-03	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+00	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E-03	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E-02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:	3.0E-02	(mg/kg/day)^-1	IRIS
Oral Wt-of-Evid:	C		IRIS
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	6.6E+02	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+03	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.27E+02
Density:	1.7E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	2.0E-06	Torr	CHEMFATE
Henry's Law:	4.9E-09	atm-m3/mol	CHEMFATE
Water Solub:	1.2E+02	mg/L	CHEMFATE
Distrib Coef:	7.5E-02	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	4.7E-01	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:	4.7E-01	days	FATERATE
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	1.6E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.6E+00		RTI_LOGP
Water Solub:	1.2E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :80.10° C
Boiling Point :
Formula :C7 H5 N3 O6

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Trinitrotoluene

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000118-96-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0020
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.2E+02
Distrib:	7.5E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0700
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.0700
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.8E-03	mg/L
Non Cancer Risk:	1.8E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	2.1E+01	mg/kg
Non Cancer Risk:	3.9E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:	2.8E-03	mg/L
Non Cancer Risk:	1.8E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.1E-01	mg/kg
Non Cancer Risk:	6.8E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Tris (2,3-dibromopropyl) phosphate CAS Number: 000126-72-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:	1.0E-01	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	B2		EPA_ED10
Inhal ED10:	1.0E-01	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	B2		EPA_ED10
Oral LD50:	8.1E+02	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	6.98E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	1.9E-04	Torr	LIVECHEM
Henry's Law:	2.2E-05	atm-m3/mol	CHEMFATE
Water Solub:	8.0E+00	mg/L	CHEMFATE
Distrib Coef:	5.6E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	2.2E+03	days	FATE
Volatility:	2.4E+02	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	2.2E+03	days	FATE
Volatility:	5.5E+00	days	THOMAS
Photolysis:		days	
Biodeg:	7.0E+00	days	FATERATE
Radio:		days	
Log Kow:	3.5E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:	2.7E+00		AQUIRE
Salt BCF:			
Log Kow:	3.5E+00		RTI_LOGP
Water Solub:	8.0E+00	mg/L	CHEMFATE

OTHER DATA

Melting Point :
Boiling Point :
Formula :C9 H15 Br6 O4 P

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0200
Gas Migration:	11

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	8.0E+00
Distrib:	5.6E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	0.4000
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	7.2E-14	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	9.6E-14	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	No
Inorganic:	Yes
Gas:	Yes
Particulate:	No
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	6.03E+00
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	7.6E+02	Torr	LIVECHEM
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	9.9E+00	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	4.5E+03	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	4.5E+03	days	ICRP38

Log Kow:

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :
Boiling Point :-248.12° C
Formula :H2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Tritium

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 010028-17-8

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	
Distrib:	9.9E+00

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	5.0E+01	pCi/m3
DW:	6.6E+02	pCi/L
FC:	2.4E+04	pCi/kg
Soil Ing:	1.1E+07	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	8.1E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	5.3E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.32E+02
Density:	1.9E+01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+02	ml/g	BAES_KD
Geo. Mean Sol.:	6.8E+02	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.6E+04	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.6E+04	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.8E+02	mg/L	

OTHER DATA

Melting Point :1132.30° C
Boiling Point :3818.00° C
Formula :U-232

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Uranium 238(+D) (radionuclide)
Other:	Uranium 238(+D) (radionuclide)

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Uranium 232 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 014158-29-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.8E+02
Distrib:	4.5E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	9.0E-05	pCi/m3
DW:	5.9E-01	pCi/L
FC:	2.2E+01	pCi/kg
Soil Ing:	9.8E+03	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Uranium 233 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013968-55-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	4.5E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.4E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	5.8E+07	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	5.8E+07	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.33E+02
Density:	1.9E+01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+02	ml/g	BAES_KD
Geo. Mean Sol.:	6.8E+02	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.8E+02	mg/L	

OTHER DATA

Melting Point :1132.30° C
Boiling Point :3818.00° C
Formula :U-233

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Uranium 238(+D) (radionuclide)
Other:	Uranium 238(+D) (radionuclide)

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Uranium 233 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013968-55-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.8E+02
Distrib:	4.5E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	3.4E-04	pCi/m3
DW:	1.1E+00	pCi/L
FC:	3.9E+01	pCi/kg
Soil Ing:	1.8E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Uranium 234 (radionuclide) CAS Number: 013966-29-5

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	4.4E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.4E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	8.9E+07	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	8.9E+07	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.34E+02
Density:	1.9E+01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+02	ml/g	BAES_KD
Geo. Mean Sol.:	6.8E+02	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.8E+02	mg/L	

OTHER DATA

Melting Point :1132.30° C
Boiling Point :3818.00° C
Formula :U-234

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Uranium 238(+D) (radionuclide)
Other:	Uranium 238(+D) (radionuclide)

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.8E+02
Distrib:	4.5E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	3.4E-04	pCi/m3
DW:	1.1E+00	pCi/L
FC:	4.0E+01	pCi/kg
Soil Ing:	1.8E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Uranium 235(+D) (radionuclide) CAS Number: 015117-96-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	4.7E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.3E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.6E+11	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.6E+11	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.35E+02
Density:	1.9E+01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+02	ml/g	BAES_KD
Geo. Mean Sol.:	6.8E+02	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.8E+02	mg/L	

OTHER DATA

Melting Point :1132.30° C
Boiling Point :3818.00° C
Formula :U-235(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Uranium 238(+D) (radionuclide)
Other:	Uranium 238(+D) (radionuclide)

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.8E+02
Distrib:	4.5E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	3.7E-04	pCi/m3
DW:	1.0E+00	pCi/L
FC:	3.7E+01	pCi/kg
Soil Ing:	1.7E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	4.2E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.3E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.36E+02
Density:	1.9E+01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+02	ml/g	BAES_KD
Geo. Mean Sol.:	6.8E+02	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	8.5E+09	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	8.5E+09	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.8E+02	mg/L	

OTHER DATA

Melting Point :1132.30° C
Boiling Point :3818.00° C
Formula :U-236(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Uranium 238(+D) (radionuclide)
Other:	Uranium 238(+D) (radionuclide)

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.8E+02
Distrib:	4.5E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	3.6E-04	pCi/m3
DW:	1.1E+00	pCi/L
FC:	4.2E+01	pCi/kg
Soil Ing:	1.9E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96 SUPERFUND CHEMICAL DATA MATRIX SCDM Version: JUN96
Chemical: Uranium 238(+D) (radionuclide) CAS Number: 007440-61-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	6.2E-11	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	1.2E-08	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:	1.0E+00	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	2.38E+02
Density:	1.9E+01 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	4.5E+02	ml/g	BAES_KD
Geo. Mean Sol.:	6.8E+02	mg/L	LIDE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.6E+12	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	1.6E+12	days	ICRP38
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	6.8E+02	mg/L	

OTHER DATA

Melting Point :1132.30° C
Boiling Point :3818.00° C
Formula :U-238(+D)

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Uranium 238(+D) (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-61-1

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	6.8E+02
Distrib:	4.5E+02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	3.8E-04	pCi/m3
DW:	7.7E-01	pCi/L
FC:	2.8E+01	pCi/kg
Soil Ing:	1.3E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	7.0E-03	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	5.09E+01
Density:	6.1E+00 g/mL @ 18.70° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	1.0E+03	ml/g	BAES_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :1917.00° C
Boiling Point :
Formula :V

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	
Distrib:	1.0E+03

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.6E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	5.5E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	2.6E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	9.5E+00	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Vanadium pentoxide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001314-62-1

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	9.0E-03	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	2.3E+01	mg/kg	ACGIH
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	7.0E-02	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	9.4E+02	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.82E+02
Density:	3.4E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:		ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:		mg/L	

OTHER DATA

Melting Point :690.00° C
Boiling Point :
Formula :V2 O5

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	100
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	100
Water Solub:	
Distrib:	

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	100

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E-01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.0E+02	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.3E-01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.2E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Vinyl acetate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-05-4

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	1.0E+00	mg/kg/day	HEAST
Inhal RfD:	5.7E-02	mg/kg/day	IRIS
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.6E+03	mg/kg	ACGIH
Dermal LD50:	2.3E+03	mg/kg	ACGIH
Gas Inhal LC50:	2.5E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.4E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	7.3E+00	days	CHEMFATE
Volatility:	8.2E+01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:	7.3E+00	days	CHEMFATE
Volatility:	9.2E-01	days	THOMAS
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:	7.3E-01		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	8.61E+01
Density:	9.3E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	9.0E+01	Torr	CHEMFATE
Henry's Law:	5.1E-04	atm-m3/mol	CHEMFATE
Water Solub:	2.0E+04	mg/L	CHEMFATE
Distrib Coef:	1.0E-02	ml/g	
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	7.3E-01		RTI_LOGP
Water Solub:	2.0E+04	mg/L	CHEMFATE

OTHER DATA

Melting Point :-93.20° C
Boiling Point :72.50° C
Formula :C4 H6 O2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	2.0E+04
Distrib:	1.0E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	0.4000
Bioaccumulation	
Fresh:	0.5
Salt:	0.5

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:	2.1E-01	mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	7.8E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	3.7E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	1.4E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	1.9E+00	(mg/kg/day)^-1	HEAST
Oral Wt-of-Evid:	A		HEAST
Inhal Slope:	3.0E-01	(mg/kg/day)^-1	HEAST
Inhal Wt-of-Evid:	A		HEAST
Oral ED10:	5.5E-02	mg/kg/day	EPA_ED10
Oral ED10 Wgt:	A		EPA_ED10
Inhal ED10:	5.5E-02	mg/kg/day	EPA_ED10
Inhal ED10 Wgt:	A		EPA_ED10
Oral LD50:	5.0E+02	mg/kg	C_EENV
Dermal LD50:		mg/kg	
Gas Inhal LC50:	2.0E+05	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	6.25E+01
Density:	9.1E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E+03	Torr	CHEMFATE
Henry's Law:	2.7E-02	atm-m3/mol	CHEMFATE
Water Solub:	2.8E+03	mg/L	LIVECHEM
Distrib Coef:	3.7E-02	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	1.5E+00		RTI_LOGP
Water Solub:	2.8E+03	mg/L	LIVECHEM

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	3.7E+03	days	FATE
Volatility:	1.7E-01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	3.7E+03	days	FATE
Volatility:	1.7E-01	days	THOMAS
Photolysis:		days	
Biodeg:	1.8E+02	days	FATERATE
Radio:		days	
Log Kow:	1.5E+00		RTI_LOGP

OTHER DATA

Melting Point :-153.70° C
Boiling Point :-13.30° C
Formula :C2 H3 Cl

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	2.8E+03
Distrib:	3.7E-02

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0007
Lake:	0.0700

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	0.0007
Lake:	0.0700
Bioaccumulation	
Fresh:	5.0
Salt:	5.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:	2.8E-05	mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	2.0E-03	mg/L
Cancer Risk:	4.5E-05	mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:	3.4E-01	mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	2.0E-03	mg/L
Cancer Risk:	4.5E-05	mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:	1.7E-03	mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.6E+00	mg/kg	ACGIH
Dermal LD50:	1.4E+03	mg/kg	ACGIH
Gas Inhal LC50:		ppm	
Dust Inhal LC50:	3.2E-01	mg/L	ACGIH
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	1.2E+04	µg/L	AQUIRE
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	3.08E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	3.0E-10	Torr	FATE
Henry's Law:	2.8E-09	atm-m3/mol	CHEMFATE
Water Solub:	1.7E+01	mg/L	LIVECHEM
Distrib Coef:	9.0E-01	ml/g	
Geo. Mean Sol.:			

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:	8.4E+02	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:	8.4E+02	days	FATE
Volatility:	**	days	
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	2.7E+00		RTI_LOGP

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	2.7E+00		RTI_LOGP
Water Solub:	1.7E+01	mg/L	LIVECHEM

OTHER DATA

Melting Point :161.00° C
Boiling Point :
Formula :C19 H16 O4

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Warfarin

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000081-81-2

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.7E+01
Distrib:	9.0E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Xylene, m-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000108-38-3

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E+00	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+03	mg/kg	C_EENV
Dermal LD50:	1.2E+04	mg/kg	ACGIH
Gas Inhal LC50:	5.3E+03	ppm	ACGIH
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	8.4E+03	µg/L	AQUIRE
Salt Ecol LC50:	1.2E+04	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.1E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.8E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	3.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.06E+02
Density:	8.6E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.5E+00	Torr	CHEMFATE
Henry's Law:	7.3E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.6E+02	mg/L	CHEMFATE
Distrib Coef:	8.1E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.2E+00		RTI_LOGP
Water Solub:	1.6E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :-47.80° C
Boiling Point :139.10° C
Formula :C8 H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.6E+02
Distrib:	8.1E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	500.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E+01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+05	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E+01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	2.0E+00	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:	4.6E+03	ppm	ACGIH
Dust Inhal LC50:	3.0E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	7.6E+03	µg/L	AQUIRE
Salt Ecol LC50:	6.0E+03	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.1E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.8E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	3.1E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.06E+02
Density:	8.8E-01 g/mL @ 10.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	6.6E+00	Torr	CHEMFATE
Henry's Law:	5.2E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.8E+02	mg/L	CHEMFATE
Distrib Coef:	7.3E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.1E+00		RTI_LOGP
Water Solub:	1.8E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :-25.20° C
Boiling Point :144.50° C
Formula :C8 H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1
Water Solub:	1.8E+02
Distrib:	7.3E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	100
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E+01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	1.6E+05	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E+01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	7.3E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	2.7E+03	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.0E+03	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:	3.9E+03	ppm	ACGIH
Dust Inhal LC50:	1.5E+01	mg/L	RTECS
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	2.6E+03	µg/L	AQUIRE
Salt Ecol LC50:	5.8E+05	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	9.1E+01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	9.8E-01	days	THOMAS
Photolysis:		days	
Biodeg:	2.8E+01	days	FATERATE
Radio:		days	
Log Kow:	3.2E+00		RTI_LOGP

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	No
Organic:	Yes
Inorganic:	No
Gas:	Yes
Particulate:	No
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.06E+02
Density:	8.6E-01 g/mL @ 20.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:	8.9E+00	Torr	CHEMFATE
Henry's Law:	7.7E-03	atm-m3/mol	CHEMFATE
Water Solub:	1.9E+02	mg/L	CHEMFATE
Distrib Coef:	7.8E-01	ml/g	SSG_KD
Geo. Mean Sol.:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:	3.2E+00		RTI_LOGP
Water Solub:	1.9E+02	mg/L	CHEMFATE

OTHER DATA

Melting Point :13.20° C
Boiling Point :138.30° C
Formula :C8 H10

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

Date: 07/15/96
Chemical: Xylene, p-

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 000106-42-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	1.0000
Gas Migration:	17

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.9E+02
Distrib:	7.8E-01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	100
Salt Tox:	1
Persistence	
River:	0.4000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:	1.0E+01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:	1.0E+01	mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Zinc

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-66-6

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-01	mg/kg/day	HEAST
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:	1.2E+02	µg/L	WATCRIT
Salt AWQC:	9.5E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:	1.1E+02	µg/L	WATCRIT
Salt AWQC:	8.6E+01	µg/L	WATCRIT
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	6.8E+01	µg/L	AQUIRE
Salt Ecol LC50:	5.0E+02	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	

Log Kow:

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	6.54E+01
Density:	7.1E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	6.2E+01	ml/g	SSG_KD
Geo. Mean Sol.:	1.2E+00	mg/L	WEAST; LANGE

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.3E+02		VER_BCF
Salt BCF:	2.4E+04		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	9.7E+02		VER_BCF
Salt BCF:	2.4E+04		VER_BCF
Log Kow:			
Water Solub:	1.2E+00	mg/L	

OTHER DATA

Melting Point :419.50° C
Boiling Point :908.00° C
Formula :Zn

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	NA
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Zinc

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007440-66-6

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.2E+00
Distrib:	6.2E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	10
Salt Tox:	100
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+01	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+04	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E+01	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E+02	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:	1.2E+02	µg/L
Salt AWQC:	9.5E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:	1.1E+02	µg/L
Salt AWQC:	8.6E+01	µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:	9.9E-12	(pCi)^-1	HEAST
Oral Wt-of-Evid:	A		NA
Inhal Slope:	10.0E-12	(pCi)^-1	HEAST
Inhal Wt-of-Evid:	A		NA
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:	A		NA
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:	A		NA
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.4E+02	days	ICRP38
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:	2.4E+02	days	ICRP38
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	Yes
Rad. Element:	No
Molecular Weight:	6.49E+01
Density:	7.1E+00 g/mL @ 25.00° C

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	6.2E+01	ml/g	SSG_KD
Geo. Mean Sol.:	1.2E+00	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	1.3E+02		VER_BCF
Salt BCF:	2.4E+04		VER_BCF
ENVIRONMENTAL			
Fresh BCF:	9.7E+02		VER_BCF
Salt BCF:	2.4E+04		VER_BCF
Log Kow:			
Water Solub:	1.2E+00	mg/L	

OTHER DATA

Melting Point :419.50° C
Boiling Point :908.00° C
Formula :Zn-65

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Zinc
Other:	Zinc

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Zinc 65 (radionuclide)

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 013982-39-3

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	1000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	1000
Water Solub:	1.2E+00
Distrib:	6.2E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	1000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	1000
Salt Tox:	1000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	500.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:	4.8E-01	pCi/m3
DW:	4.8E+00	pCi/L
FC:	1.8E+02	pCi/kg
Soil Ing:	8.0E+04	pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	5.0E-02	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:		mg/kg	
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.17E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	6.2E+01	ml/g	SSG_KD
Geo. Mean Sol.:	1.2E+00	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	1.2E+00	mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Zn C2 N2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Zinc
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.2E+00
Distrib:	6.2E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	3.9E+03	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.8E+00	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	6.8E+01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Zinc phosphide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001314-84-7

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:	3.0E-04	mg/kg/day	IRIS
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	1.2E+01	mg/kg	RTECS
Dermal LD50:	2.0E+03	mg/kg	RTECS
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:		µg/L	
Salt Ecol LC50:		µg/L	

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	2.58E+02
Density:	4.6E+00 g/mL

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	6.2E+01	ml/g	SSG_KD
Geo. Mean Sol.:	1.2E+00	mg/L	

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:			
Salt BCF:			
ENVIRONMENTAL			
Fresh BCF:			
Salt BCF:			
Log Kow:			
Water Solub:	1.2E+00	mg/L	

OTHER DATA

Melting Point :420.00° C
Boiling Point :1100.00° C
Formula :Zn3 P2

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Zinc
Other:	NA

** This substance should be considered essentially non-volatile.

Date: 07/15/96
Chemical: Zinc phosphide

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 001314-84-7

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10000
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10000
Water Solub:	1.2E+00
Distrib:	6.2E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10000

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

Environmental

Parameter	Value
Fresh Tox:	...
Salt Tox:	...
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50000.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:	2.3E+01	mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:	1.1E-02	mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:	4.1E-01	mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Date: 07/15/96
Chemical: Zinc sulfate

SUPERFUND CHEMICAL DATA MATRIX

SCDM Version: JUN96
CAS Number: 007733-02-0

TOXICITY

Parameter	Value	Unit	Source
Oral RfD:		mg/kg/day	
Inhal RfD:		mg/kg/day	
Oral Slope:		(mg/kg/day)^-1	
Oral Wt-of-Evid:			
Inhal Slope:		(mg/kg/day)^-1	
Inhal Wt-of-Evid:			
Oral ED10:		mg/kg/day	
Oral ED10 Wgt:			
Inhal ED10:		mg/kg/day	
Inhal ED10 Wgt:			
Oral LD50:	5.7E+01	mg/kg	RTECS
Dermal LD50:		mg/kg	
Gas Inhal LC50:		ppm	
Dust Inhal LC50:		mg/L	
ACUTE			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
CHRONIC			
Fresh AWQC:		µg/L	
Salt AWQC:		µg/L	
Fresh AALAC:		µg/L	
Salt AALAC:		µg/L	
Fresh Ecol LC50:	5.0E+00	µg/L	AQUIRE
Salt Ecol LC50:	4.0E+00	µg/L	AQUIRE

PERSISTENCE

Parameter	Value	Unit	Source
LAKE - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
RIVER - Halflives			
Hydrolysis:		days	
Volatility:	**	days	
Photolysis:		days	
Biodeg:		days	
Radio:		days	
Log Kow:			

PHYSICAL CHARACTERISTICS

Parameter	Value
Metal Contain:	Yes
Organic:	No
Inorganic:	Yes
Gas:	No
Particulate:	Yes
Radionuclide:	No
Rad. Element:	No
Molecular Weight:	1.79E+02
Density:	

MOBILITY

Parameter	Value	Unit	Source
Vapor Press:		Torr	
Henry's Law:		atm-m3/mol	
Water Solub:		mg/L	
Distrib Coef:	6.2E+01	ml/g	SSG_KD
Geo. Mean Sol.:	1.2E+00	mg/L	

BIOACCUMULATION

Parameter	Value	Unit	Source
FOOD CHAIN			
Fresh BCF:	6.6E+00		AQUIRE
Salt BCF:	4.6E+01		AQUIRE
ENVIRONMENTAL			
Fresh BCF:	3.1E+01		AQUIRE
Salt BCF:	1.4E+04		AQUIRE
Log Kow:			
Water Solub:	1.2E+00	mg/L	

OTHER DATA

Melting Point :
Boiling Point :
Formula :Zn S 04 H20

CLASS INFORMATION

Class	Parent Substance
Toxicity:	NA
GW Mob:	Zinc
Other:	NA

** This substance should be considered essentially non-volatile.

ASSIGNED FACTOR VALUES

AIR PATHWAY

Parameter	Value
Toxicity:	10
Gas Mobility:	0.0000
Gas Migration:	0

GROUND WATER PATHWAY

Parameter	Value
Toxicity:	10
Water Solub:	1.2E+00
Distrib:	6.2E+01

SOIL EXPOSURE PATHWAY

Parameter	Value
Toxicity:	10

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000

Human Food Chain

Parameter	Value
Toxicity:	10
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	5.0
Salt:	50.0

Environmental

Parameter	Value
Fresh Tox:	10000
Salt Tox:	10000
Persistence	
River:	1.0000
Lake:	1.0000
Bioaccumulation	
Fresh:	50.0
Salt:	50000.0

BENCHMARKS

AIR PATHWAY

Parameter	Value	Unit
NAAQS/NESHAPS:		µg/m3
Cancer Risk:		mg/m3
Non Cancer Risk:		mg/m3

GROUND WATER PATHWAY

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

SOIL EXPOSURE PATHWAY

Parameter	Value	Unit
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

RADIONUCLIDE

Parameter	Value	Unit
MCL:		pCi/L
UMTRCA:		pCi/kg
CANCER RISK		
Air:		pCi/m3
DW:		pCi/L
FC:		pCi/kg
Soil Ing:		pCi/kg
Soil Gam:		pCi/kg

SURFACE WATER PATHWAY

Drinking Water

Parameter	Value	Unit
MCL/MCLG:		mg/L
Cancer Risk:		mg/L
Non Cancer Risk:		mg/L

Human Food Chain

Parameter	Value	Unit
FDAAL:		ppm
Cancer Risk:		mg/kg
Non Cancer Risk:		mg/kg

Environmental

Parameter	Value	Unit
ACUTE		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L
CHRONIC		
Fresh AWQC:		µg/L
Salt AWQC:		µg/L
Fresh AALAC:		µg/L
Salt AALAC:		µg/L

Appendix B-1

Tables for Non-Radioactive Hazardous Substances

HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Acenaphthene	000083-32-9	10	1.0E+00	1.0E-02	2.0E-01	2.0E-03	0.4000	0.4000*	500.0	500.0	500.0	500.0	10000	100	11	0.2000	Yes	Yes
Acenaphthylene	000208-96-8	...	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.4000*	1.0000	500.0	500.0	500.0	500.0	...	...	11	0.0200	Yes	Yes
Acetaldehyde	000075-07-0	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	0.5	0.5	0.5	0.5	10	10	17	1.0000	Yes	No
Acetone	000067-64-1	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000*	0.0700	0.5	0.5	0.5	0.5	100	1	17	1.0000	Yes	No
Acetonitrile	000075-05-8	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000*	0.0700	0.5	0.5	0.5	0.5	1	1	17	1.0000	Yes	No
Acetophenone	000098-86-2	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	5.0	5.0	5.0	5.0	1	1	11	1.0000	Yes	No
Acetyl-2-thiourea, 1-	000591-08-2	10	1.0E+00	...	...	...	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Acrolein	000107-02-8	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0700	0.0700	500.0	500.0	500.0	500.0	10000	1000	17	1.0000	Yes	No
Acrylamide	000079-06-1	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	5.0	5.0	5.0	5.0	10	10	6	0.2000	Yes	Yes
Acrylic acid	000079-10-7	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000*	0.5	0.5	0.5	0.5	...	...	11	1.0000	Yes	No
Acrylonitrile	000107-13-1	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	50.0	50.0	50.0	50.0	100	100*	17	1.0000	Yes	No
Adipic acid	000124-04-9	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000*	0.4000*	0.5	0.5	0.5	0.5	10	10	6	0.2000*	Yes	Yes
Aldicarb	000116-06-3	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000*	1.0000*	5.0	5.0	5.0	5.0	10000	10000	6	0.0200	Yes	Yes
Aldrin	000309-00-2	10000	1.0E+00	1.0E-04	2.0E-03	2.0E-07	1.0000	1.0000	50000.0*	50000.0*	50000.0	50000.0	10000	10000	6*	0.0020*	Yes	Yes
Allyl alcohol	000107-18-6	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	0.5	0.5	0.5	0.5	1000	1000	11	1.0000	Yes	No!
Allyl chloride**	000107-05-1	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.4000	5.0	5.0	5.0	5.0	1000	1000	17	1.0000	Yes	No
Aluminum	007429-90-5	...	1.0E+00	1.0E-04*	...	...	1.0000	1.0000	50.0	50.0	50.0	50.0	100*	100*	NA	NA	No	Yes
Aluminum phosphide	020859-73-8	10000	1.0E+00	...	...	...	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Ammonia	007664-41-7	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0007	0.0700	0.5	0.5	0.5	0.5	100*	100*	17	1.0000	Yes	No

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Ammonium picrate	000131-74-8	...	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Ammonium sulfamate	007773-06-0	10	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	1	1	NA	NA	No	Yes
Aniline	000062-53-3	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	5.0	5.0	500.0	500.0	10000	10	11	1.0000	Yes	No
Anthracene	000120-12-7	10	1.0E+00	1.0E-02*	2.0E-03	2.0E-05*	1.0000*	1.0000*	5000.0	5000.0	5000.0	5000.0	10000	100	6	0.0020	Yes	Yes
Antimony	007440-36-0	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	5.0*	5.0*	100*	100*	NA	NA	No	Yes
Arsenic	007440-38-2	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	5.0	500.0	500.0*	500.0	10	100	NA	NA	No	Yes
Asbestos	001332-21-4	10000	1.0E+00	1.0E-04	...	...	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Atrazine	001912-24-9	100	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.0007	0.0700	50.0	50.0	50.0	50.0	1000	10000	6	0.0020	Yes	Yes
Azinphos- ethyl	002642-71-9	100	1.0E+00	1.0E+00*	2.0E-01*	2.0E-01*	0.4000	0.0700	500.0	500.0	500.0	500.0	10000	10000	NA	NA	No	Yes
Azinphos- methyl	000086-50-0	1000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000*	1.0000*	50.0	50.0	50.0	50.0	10000	10000	NA	NA	No	Yes
Aziridine	000151-56-4	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000*	0.5	0.5	0.5	0.5	10*	10*	11	1.0000	Yes	No
Barium	007440-39-3	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	1	1	NA	NA	No	Yes
Barium cyanide	000542-62-1	...*	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Benz(a)anthracene	000056-55-3	1000	1.0E+00	1.0E-02*	2.0E-05	2.0E-07*	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	10000	10000	6	0.0020*	Yes	Yes
Benzene	000071-43-2	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.4000	5000.0	5000.0	500.0	50000.0	100	1000*	17	1.0000	Yes	No
Benzene carbonyl chloride	000098-88-4	1	1.0E+00	...	...	...	0.4000	0.4000*	0.5	0.5	0.5	0.5	10	1	11	1.0000	Yes	No
Benzidine	000092-87-5	10000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000*	0.4000*	50.0	50.0	50.0	50.0	...	...	0	0.0002	Yes	Yes
Benzo(a)pyrene	000050-32-8	10000	1.0E+00	1.0E-04	2.0E-05	2.0E-09	1.0000	1.0000	50000.0	500.0	50000.0	500.0	10000	1000	6	0.0002	Yes	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Benzo(b)fluoranthene	000205-99-2	1000*	1.0E+00	1.0E-04	2.0E-05	2.0E-09	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	...	...	6	0.0020	Yes	Yes
Benzo(g,h,i)perylene	000191-24-2	...	1.0E+00	1.0E-04	2.0E-05	2.0E-09	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	...	...	NA	NA	No	Yes
Benzo(k)fluoranthene	000207-08-9	100*	1.0E+00	1.0E-04	2.0E-05	2.0E-09	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	...	...	6	0.0002	Yes	Yes
Benzoic acid	000065-85-0	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	5.0	5.0	5.0	5.0	1	1	11	0.2000	Yes	Yes
Benzonitrile	000100-47-0	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	5.0	5.0	5.0	5.0	10	10	11	1.0000	Yes	No
Benzothiazole, 1,2,-	000095-16-9	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	50.0	50.0	50.0	50.0	10	10	11	1.0000*	Yes	No*
Benzyl alcohol**	000100-51-6	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	5.0	5.0	5.0	5.0	100	100	11	0.2000	Yes	Yes
Benzyl chloride	000100-44-7	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000*	0.0700	50.0	50.0	50.0	50.0	100	100	11	1.0000	Yes	No
Beryllium	007440-41-7	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	50.0	50.0	50.0	50.0	...	...	NA	NA	No	Yes
Biphenyl, 1,1-	000092-52-4	10	1.0E+00	1.0E-02	2.0E-01	2.0E-03	0.4000	0.0700*	500.0	500.0	500.0	500.0	1000	100	11	0.2000	Yes	Yes
Bis (2-ethylhexyl) phthalate	000117-81-7	100	1.0E+00	1.0E-04	2.0E-03	2.0E-07	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	1000	1	6	0.0020	Yes	Yes
Bis(2-chloroethoxy)methane	000111-91-1	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	1*	1*	6	0.0200	Yes	Yes
Bis(2-chloroethyl)ether	000111-44-4	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	1.0000	50.0	50.0	50.0	50.0	1	1	11	1.0000	Yes	No
Bis(2-chloroisopropyl)ether**	039638-32-9	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	50.0	50.0	50.0	50.0	...	...	NA	NA	No	Yes
Bis(chloromethyl)ether	000542-88-1	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0007	0.0007	5.0	5.0	5.0	5.0	...	...	17	1.0000	Yes	No
Boron	007440-42-8	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Bromodichloromethane	000075-27-4	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	...	...	17	1.0000	Yes	No
Bromomethane	000074-83-9	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	0.4000	5.0	5.0	5.0	5.0	10000	10	17	1.0000	Yes	No
Bromophenyl-phenylether, 4-**	000101-55-3	...	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	1000	1000	11	0.2000	Yes	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Bromoxynil	001689-84-5	100	1.0E+00	1.0E+00*	1.0E+00*	1.0E+00*	0.4000	0.0700	50.0	50.0	50.0	50.0	10	10	0	0.0002	Yes	Yes
Butadiene, 1,3-	000106-99-0	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0007	0.0700	5.0	5.0	5.0	5.0	...	...	17	1.0000	Yes	No
Butanol	000071-36-3	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	0.4000*	5.0	5.0	5.0	5.0	1	1	11	1.0000	Yes	No
Butylbenzyl phthalate	000085-68-7	10	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000	1.0000	500.0	500.0	500.0	500.0	100	10000*	6	0.0020	Yes	Yes
Butyric acid, 4-(2,4-dichlorophenoxy)	000094-82-6	100	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000*	0.4000*	500.0*	500.0*	500.0*	500.0*	100	100	0	0.0020	Yes	Yes
Cadmium	007440-43-9	10000	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	1000	1000	NA	NA	No	Yes
Calcium**	007440-70-2	...	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	500.0	500.0	500.0	500.0	...	...	NA	NA	No	Yes
Captan	000133-06-2	10	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.0007	0.0700	50.0	50.0	50.0	50.0	10000	100	6	0.0200	Yes	Yes
Carbaryl	000063-25-2	10	1.0E+00	1.0E+00	1.0E+00*	1.0E+00*	1.0000*	0.4000*	50.0	50.0	50.0	50.0	10000	10000	0	0.0020	Yes	Yes
Carbazole**	000086-74-8	10	1.0E+00	1.0E+00	2.0E-01	2.0E-01	0.4000	0.0700	500.0	500.0	500.0	500.0	...	...	0	0.0020	Yes	Yes
Carbofuran	001563-66-2	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	1.0000	5.0*	5.0*	50.0	50.0	10000	10000*	11	1.0000	Yes	No
Carbon disulfide	000075-15-0	10*	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	0.4000	500.0*	500.0*	500.0*	500.0*	100	100	17	1.0000	Yes	No
Carbon tetrachloride	000056-23-5	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	100	1	17	1.0000	Yes	No
Carbophenothion	000786-19-6	100	1.0E+00	1.0E-02*	2.0E-03*	2.0E-05*	1.0000	1.0000	50000.0*	50000.0*	50000.0*	50000.0*	10000	10000	NA	NA	No	Yes
Cesium	007440-46-2	...	1.0E+00	1.0E-02*	1.0E+00*	1.0E-02*	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Chloral	000075-87-6	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	5.0	5.0	5.0	5.0	1*	1*	11	1.0000	Yes	No
Chlordane	000057-74-9	10000	1.0E+00	1.0E-02*	2.0E-03	2.0E-05*	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	10000	10000	6	0.0020	Yes	Yes
Chlordane, alpha-**	005103-71-9	10	1.0E+00	1.0E-02	2.0E-03	2.0E-05	1.0000	1.0000	500.0	500.0	500.0	500.0	10000	10000	NA	NA	No	Yes
Chlordane, gamma-**	005566-34-7	10	1.0E+00	1.0E-02	2.0E-03	2.0E-05	1.0000	1.0000	50000.0	50000.0	500.0	500.0	10000	10000	NA	NA	No	Yes

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Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Chlorine cyanide	000506-77-4	10	1.0E+00	1.0E+00*	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	10000	10000	17	1.0000	Yes	No
Chloro-3-methylphenol, 4-	000059-50-7	1	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	1.0000	50.0	50.0	50.0	50.0	100	100	11	0.2000	Yes	Yes
Chloroaniline, p-	000106-47-8	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0700	0.0700	5.0	5.0	5.0	5.0	10000	10	11	0.2000	Yes	Yes
Chlorobenzene	000108-90-7	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.0007	0.0700	50.0	50.0	50.0	50.0	1000	100	17	1.0000	Yes	No
Chlorobenzilate**	000510-15-6	100	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	500.0	500.0	500.0	500.0	1000	1000	6	0.0020	Yes	Yes
Chloroform	000067-66-3	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	10	10	17	1.0000	Yes	No
Chloromethane	000074-87-3	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0007	0.0700	5.0	5.0	5.0	5.0	1	1	17	1.0000	Yes	No
Chloromethyl methyl ether	000107-30-2	100*	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0007	0.0007	0.5	0.5	0.5	0.5	...	...	17	1.0000	Yes	No
Chloromethyloxirane, 2-	000106-89-8	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000*	0.4000	0.5	0.5	0.5	0.5	10	10	17	1.0000	Yes	No
Chloronaphthalene, 2-	000091-58-7	10	1.0E+00	1.0E-02	2.0E-01	2.0E-03	0.4000	1.0000	500.0	500.0	500.0	500.0	100*	100*	11	0.2000	Yes	Yes
Chlorophenol, 2-	000095-57-8	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	500.0	500.0	500.0	500.0	100	100	11	1.0000	Yes	No
Chlorophenyl-phenyl ether, 4-**	007005-72-3	...	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	1000	1000	NA	NA	No	Yes
Chloroprene**	000126-99-8	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	50.0	50.0	50.0	50.0	...	...	17	1.0000	Yes	No
Chlorpyrifos	002921-88-2	1000	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000	1.0000	500.0	5000.0	5000.0	5000.0	10000	10000	NA	NA	No	Yes
Chromium	007440-47-3	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	5.0	500.0	5.0	500.0	100*	100*	NA	NA	No	Yes
Chromium(III)	016065-83-1	1	1.0E+00	1.0E-04*	1.0E+00	1.0E-04*	1.0000	1.0000	500.0	500.0	500.0	500.0	10	10	NA	NA	No	Yes
Chromium(VI)	018540-29-9	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	5.0	500.0	5.0	500.0	100	100	NA	NA	No	Yes
Chrysene	000218-01-9	10*	1.0E+00	1.0E-02*	2.0E-05	2.0E-07*	1.0000	1.0000	500.0	500.0	5000.0	500.0	1000	1000	6	0.0002	Yes	Yes

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** Indicates new hazardous substance in current version of chemical data (JUN96).

HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Cobalt	007440-48-4	1	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	5000.0	5000.0	...	...	NA	NA	No	Yes
Copper	007440-50-8	...	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	100	100*	NA	NA	No	Yes
Copper cyanide	000544-92-3	100	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	500.0	500.0	500.0	500.0	...	...	NA	NA	No	Yes
Coumaphos	000056-72-4	100	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	0.4000	0.4000	500.0	500.0	500.0	500.0	10000	1000	NA	NA	No	Yes
Creosote	008001-58-9	10	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Cresol, m-	000108-39-4	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	1.0000	5.0	5.0	5.0	5.0	100	100	11	1.0000	Yes	No
Cresol, o-**	000095-48-7	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	5.0	5.0	5.0	5.0	100	100	11	1.0000	Yes	No
Cresol, p-	000106-44-5	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000*	0.0700	5.0	5.0	5.0	5.0	...*	...*	11	1.0000	Yes	No
Cumene	000098-82-8	1000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.4000	0.4000*	500.0	500.0	500.0	500.0	100	1	17	1.0000	Yes	No
Cyanazine	021725-46-2	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	0.0700	50.0	50.0	50000.0	50000.0	100	100	0	0.0020	Yes	Yes
Cyanide	000057-12-5	100	1.0E+00	1.0E+00*	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	1000	1000	NA	NA	No	Yes
Cyanogen	000460-19-5	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	17	1.0000	Yes	No
Cyanogen bromide	000506-68-3	10	1.0E+00	1.0E+00*	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	1000	1000	17*	1.0000*	Yes*	No*
Cyclohexane	000110-82-7	1	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.4000	1.0000	500.0	500.0	500.0	500.0	100	100	17	1.0000	Yes	No
Cyclohexanone	000108-94-1	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	5.0	5.0	5.0	5.0	1	1	11	1.0000	Yes	No
Cyclotrimethylenetrinitriamine	000121-82-4	1000	1.0E+00	1.0E+00*	2.0E-01*	2.0E-01*	0.4000	0.0700	5.0*	5.0*	5.0*	5.0*	100	100	NA	NA	No	Yes
DDD	000072-54-8	100	1.0E+00	1.0E-04	2.0E-03	2.0E-07	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	10000	10000	6	0.0020	Yes	Yes
DDE	000072-55-9	100	1.0E+00	1.0E-04	2.0E-03	2.0E-07	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	10000	10000	6	0.0020	Yes	Yes
DDT	000050-29-3	1000	1.0E+00	1.0E-04	2.0E-03	2.0E-07	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	10000	10000	6	0.0020	Yes	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
DEF	000078-48-8	10000	1.0E+00	1.0E+00*	2.0E-01*	2.0E-01*	1.0000	0.0700*	5000.0	5000.0	5000.0	5000.0	1000	10000	NA	NA	No	Yes
Di-n-butyl phthalate	000084-74-2	10	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	1000	10000	6	0.0200	Yes	Yes
Di-n-octyl phthalate	000117-84-0	100	1.0E+00	1.0E-04	2.0E-03	2.0E-07	1.0000	1.0000	500.0	500.0	500.0	500.0	...	...	6	0.0020	Yes	Yes
Diallate**	002303-16-4	100	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	500.0	500.0	500.0	500.0	100	100	11	0.2000	Yes	Yes
Diazinon	000333-41-5	1000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000*	1.0000*	500.0	500.0	500.0	500.0	10000	10000*	17	1.0000	Yes	No
Dibenz(a,h)anthracene	000053-70-3	10000*	1.0E+00	1.0E-04	2.0E-05	2.0E-09	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	...	...	NA	NA	No	Yes
Dibenzofuran	000132-64-9	...	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000	1.0000	500.0	500.0	500.0	500.0	100	100	11	0.0200	Yes	Yes
Dibromo-3-chloropropane, 1,2-	000096-12-8	10000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	1.0000	50.0	50.0	50.0	50.0	...	...	11	1.0000	Yes	No
Dibromochloromethane	000124-48-1	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	...	...	11	1.0000	Yes	No
Dibromoethane, 1,2-	000106-93-4	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	...	...	17	1.0000	Yes	No
Dicamba	001918-00-9	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	50.0*	50.0*	50.0*	50.0*	100	100	6	0.0200	Yes	Yes
Dichlorobenzene, 1,2-	000095-50-1	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	100	100	17	1.0000	Yes	No
Dichlorobenzene, 1,3-	000541-73-1	...	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	100	100	17	1.0000	Yes	No
Dichlorobenzene, 1,4-	000106-46-7	10	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.4000	1.0000	50.0	50.0	50.0	50.0	100	100	17	1.0000	Yes	No
Dichlorobenzidine, 3,3-	000091-94-1	100	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.0700*	0.0700	500.0	500.0	500.0	500.0	...	...	0	0.0002	Yes	Yes
Dichlorodifluoromethane	000075-71-8	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	...	...	17	1.0000	Yes	No
Dichloroethane, 1,1-	000075-34-3	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	...	...	17	1.0000	Yes	No
Dichloroethane, 1,2-	000107-06-2	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	1	1	17	1.0000	Yes	No
Dichloroethylene, 1,1-	000075-35-4	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	10	1	17	1.0000	Yes	No

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Dichloroethylene, cis-1,2-	000156-59-2	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	...	...	17	1.0000	Yes	No
Dichloroethylene, trans-1,2-	000156-60-5	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	50.0	50.0	50.0	50.0	1	1	17	1.0000	Yes	No
Dichlorophenol, 2,4-	000120-83-2	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.0007*	0.0700*	50.0*	50.0*	500.0	500.0	100	100	11	0.2000	Yes	Yes
Dichlorophenoxyacetic acid, 2,4-	000094-75-7	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	0.4000*	50.0	50.0	50.0	50.0	100	100	0	0.0020	Yes	Yes
Dichloropropane, 1,2-	000078-87-5	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0*	5.0*	5.0*	5.0*	10	1	17	1.0000	Yes	No
Dichloropropene, 1,3-	000542-75-6	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.4000	50.0*	50.0*	50.0*	50.0*	1000	100	17	1.0000	Yes	No
Dichloropropene, cis-1,3-**	010061-01-5	...	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	50.0	50.0	50.0	50.0	...	...	17	1.0000	Yes	No
Dichloropropene, trans-1,3-**	010061-02-6	...	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	50.0	50.0	50.0	50.0	...	...	17	1.0000	Yes	No
Dichlorvos	000062-73-7	10000*	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.4000*	5.0	5.0	5.0	5.0	10000	10000	17	0.2000	Yes	Yes
Dicofol	000115-32-2	10	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.4000*	0.4000*	500.0*	500.0*	50000.0	50000.0	10000	1000	NA	NA	No	Yes
Dieldrin	000060-57-1	10000	1.0E+00	1.0E-02*	2.0E-03	2.0E-05*	1.0000	1.0000	50000.0	5000.0	50000.0	5000.0	10000	10000	6	0.0020	Yes	Yes
Diethyl phthalate	000084-66-2	1	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	1.0000	500.0	500.0	500.0	500.0	10*	10*	11	0.2000	Yes	Yes
Diethylene glycol	000111-46-6	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	1	1	11	0.2000	Yes	Yes
Diethylstibestrol**	000056-53-1	10000	1.0E+00	1.0E-02	2.0E-03	2.0E-05	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	...	...	0	0.0002	Yes	Yes
Diisopropylmethyl-phosphonate	001445-75-6	10	1.0E+00	...	...	...	0.4000	0.0700	5.0	5.0	5.0	5.0	1	1	NA	NA	No	Yes
Dimethoate	000060-51-5	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	10000	10000*	0	0.0020	Yes	Yes
Dimethoxybenzidine, 3,3-	000119-90-4	10	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000	1.0000	5.0	5.0	5.0	5.0	...	...	0	0.0020	Yes	Yes
Dimethyl phenol, 2,4-	000105-67-9	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	0.4000*	500.0	500.0	500.0	500.0	100	100	11	0.2000	Yes	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Dimethyl phthalate	000131-11-3	10*	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	0.4000	50.0	50.0	50.0	50.0	10	10	11	0.2000	Yes	Yes
Dimethyl sulfate	000077-78-1	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0007	0.0700	5.0	5.0	5.0	5.0	100	10	11	1.0000	Yes	No
Dimethylbenz(a)anthracene, 7,12-**	000057-97-6	10000	1.0E+00	1.0E-04	2.0E-03	2.0E-07	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	...	...	0	0.0002	Yes	Yes
Dimethylbenzidine, 3,3'-**	000119-93-7	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	50.0	50.0	50.0	50.0	...	...	0	0.0002	Yes	Yes
Dinitro-2-methylphenol, 4,6-**	000534-52-1	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	50.0	50.0	50.0	50.0	10000	10000	6	0.0200	Yes	Yes
Dinitrobenzene, 1,3-	000099-65-0	10000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	1.0000	5.0	5.0	5.0	5.0	100	100	6	0.0200	Yes	Yes
Dinitrophenol, 2,4-	000051-28-5	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	5.0	5.0	5.0	5.0	10000	100*	11	0.2000	Yes	Yes
Dinitrotoluene, 2,4-	000121-14-2	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000*	0.4000	50.0	50.0	50.0	50.0	100	100	6	0.0200	Yes	Yes
Dinitrotoluene, 2,6-	000606-20-2	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	0.0700	5.0*	5.0*	5.0*	5.0*	10	10	6	0.0200	Yes	Yes
Dinoseb	000088-85-7	1000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000	1.0000	50.0*	50.0*	50.0	50.0	10000	100	6	0.0200	Yes	Yes
Dioxane, 1,4-	000123-91-1	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	1	1	11	1.0000	Yes	No
Dioxathion	000078-34-2	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	0.0700	50.0	50.0	50.0	50.0	10000	10000	NA	NA	No	Yes
Diphenylamine**	000122-39-4	100	1.0E+00	1.0E+00	2.0E-01	2.0E-01	1.0000	1.0000	500.0	500.0	500.0	500.0	100	100	6	0.0200	Yes	Yes
Diphenylhydrazine, 1,2-	000122-66-7	1000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000	1.0000	50.0	50.0	50.0	50.0	1000*	1000*	6	0.0200	Yes	Yes
Diquat	000085-00-7	1000	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	1000	1000	NA	NA	No	Yes
Disulfoton	000298-04-4	10000	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000	0.4000*	500.0	500.0	500.0	500.0	10000	1000*	6	0.0200	Yes	Yes
Diuron	000330-54-1	1000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.4000	0.0700	50.0	50.0	500.0	500.0	1000	100	NA	NA	No	Yes
Endosulfan (I or II)	000115-29-7	100	1.0E+00	1.0E+00*	2.0E-03	2.0E-03*	1.0000	0.4000	500.0*	5000.0	50000.0*	5000.0	10000	10000	11	0.0020	Yes	Yes
Endosulfan sulfate	001031-07-8	100	1.0E+00	1.0E+00*	2.0E-01*	2.0E-01*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	...	...	17	1.0000	Yes	No

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Endothall	000145-73-3	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	0.5	0.5	500.0	500.0	10000	10000	6	0.0200	Yes	Yes
Endrin	000072-20-8	10000	1.0E+00	1.0E-02*	2.0E-03	2.0E-05*	1.0000	1.0000	5000.0	5000.0	50000.0	5000.0	10000	10000	6	0.0020	Yes	Yes
Endrin aldehyde	007421-93-4	...	1.0E+00	1.0E-02*	2.0E-01*	2.0E-03*	0.4000	0.0700	500.0*	500.0*	500.0*	500.0*	...*	...*	NA	NA	No	Yes
Endrin ketone**	053494-70-5	100	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Ethion	000563-12-2	1000	1.0E+00	1.0E-02*	2.0E-03	2.0E-05*	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	10000	10000	NA	NA	No	Yes
Ethyl acetate	000141-78-6	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.4000	0.5	0.5	0.5	0.5	1	1	17	1.0000	Yes	No
Ethyl benzene	000100-41-4	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	0.4000	50.0	50.0	50.0	50.0	100	10	17	1.0000	Yes	No
Ethyl chloride	000075-00-3	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0007	0.0700	5.0	5.0	5.0	5.0	...	...	17	1.0000	Yes	No
Ethyl ether	000060-29-7	10	1.0E+00	1.0E+00	1.0E+00*	1.0E+00*	0.4000	1.0000	5.0*	5.0*	5.0*	5.0*	1	1	17	1.0000	Yes	No
Ethyl methacrylate**	000097-63-2	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	...	...	17	1.0000	Yes	No
Ethyl methanesulfonate**	000062-50-0	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0007	0.0700	0.5	0.5	0.5	0.5	...	...	11	1.0000	Yes	No
Ethyldipropylthiocarbamate, s-	000759-94-4	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	1.0000	500.0	500.0	500.0	500.0	10	10	11	1.0000	Yes	No
Ethylene glycol	000107-21-1	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	0.5	0.5	0.5	0.5	1	10*	6	0.2000	Yes	Yes
Ethylene glycol monoethyl ether	000110-80-5	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	1	1	11	1.0000	Yes	No
Ethylene thiourea**	000096-45-7	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	10	10	6	0.0200	Yes	Yes
Fenthion	000055-38-9	100	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	0.4000	0.4000	500.0	500.0	50.0	50.0	10000	10000	NA	NA	No	Yes
Ferrous sulfate	007720-78-7	10	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	1000	1000	NA	NA	No	Yes
Fluoranthene	000206-44-0	100	1.0E+00	1.0E-02*	2.0E-03	2.0E-05*	1.0000	1.0000	5000.0	5000.0	500.0*	5000.0	10000	1000	6	0.0020*	Yes	Yes
Fluorene	000086-73-7	100	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	1000	1000	11	0.0200*	Yes	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

			Ground Water Mobility						Bioaccumulation									
			Liquid		Non-Liquid		Persistence		Food Chain		Environmental		Ecotoxicity					
Substance Name	CAS Number	Toxicity	Karst	Non-Karst	Karst	Non-Karst	River	Lake	Fresh	Salt	Fresh	Salt	Fresh	Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Fluorine	007782-41-4	10	1.0E+00	1.0E-02	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	17	1.0000	Yes	No
Formaldehyde	000050-00-0	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000*	0.5	0.5	0.5	0.5	100	10	11	1.0000	Yes	No
Formic acid	000064-18-6	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000*	0.5	0.5	0.5	0.5	10*	10*	11	1.0000	Yes	No
Furan	000110-00-9	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	10	10	17	1.0000	Yes	No
Furfural	000098-01-1	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	10	10	11	1.0000	Yes	No
Glycidylaldehyde	000765-34-4	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	11	1.0000	Yes	No
Heptachlor	000076-44-8	1000	1.0E+00	1.0E-04*	2.0E-03	2.0E-07*	1.0000*	1.0000*	5000.0	5000.0	50000.0	50000.0	10000	10000	11	0.0200	Yes	Yes
Heptachlor epoxide	001024-57-3	10000	1.0E+00	1.0E-02*	2.0E-03	2.0E-05*	1.0000	1.0000	5.0	5.0	50000.0	50000.0	10000	10000	6*	0.0200	Yes	Yes
Heptachlorinated dibenzo-p-dioxin, 1,2,3,4,6,	035822-46-9	10000*	1.0E+00	1.0E-04*	2.0E-05*	2.0E-09*	1.0000*	1.0000*	50000.0	50000.0	50000.0	50000.0	...	...	NA	NA	No	Yes
Heptachlorinated dibenzofuran, 1,2,3,4,6,7,8-	067562-39-4	10000*	1.0E+00	1.0E-04*	2.0E-05*	2.0E-09*	1.0000*	1.0000*	50000.0*	50000.0*	50000.0*	50000.0*	...	...	NA	NA	No	Yes
Heptachlorinated dibenzofuran, 1,2,3,4,6,7,9-	055673-89-7	...	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Hexabromobenzene	000087-82-1	1000	1.0E+00	1.0E-04	2.0E-05	2.0E-09	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	...	...	6	0.0002	Yes	Yes
Hexachlorinated dibenzo-p-dioxin, 1,2,3,4,7,8	039227-28-6	10000*	1.0E+00	1.0E-04*	2.0E-05*	2.0E-09*	1.0000*	1.0000*	50000.0*	50000.0*	50000.0*	50000.0*	...	...	NA	NA	No	Yes
Hexachlorinated dibenzo-p-dioxin, 1,2,3,6,7,8	057653-85-7	10000*	1.0E+00	...	...	...	0.4000	0.0700	5000.0	5000.0	5000.0	5000.0	10000	10000	NA	NA	No	Yes
Hexachlorinated dibenzo-p-dioxin, 1,2,3,7,8,9	019408-74-3	10000	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Hexachlorinated dibenzofuran, 1,2,3,4,7,8-	070648-26-9	10000*	1.0E+00	1.0E-04*	2.0E-05*	2.0E-09*	1.0000*	1.0000*	50000.0*	50000.0*	50000.0*	50000.0*	...	...	NA	NA	No	Yes
Hexachlorinated dibenzofuran, 1,2,3,6,7,8-	057117-44-9	10000*	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Hexachlorinated dibenzofuran, 1,2,3,7,8,9-	072918-21-9	10000*	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Hexachlorinated dibenzofuran, 2,3,4,6,7,8-	060851-34-5	10000*	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Hexachlorobenzene	000118-74-1	1000	1.0E+00	1.0E-02*	2.0E-05*	2.0E-07*	1.0000	1.0000	5000.0	50000.0	50000.0	50000.0	10	10000*	11	0.0200	Yes	Yes
Hexachlorobutadiene	000087-68-3	10000	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000	1.0000	50.0	50.0	5000.0	5000.0	10000	100	17	1.0000*	Yes	No*
Hexachlorocyclohexane, alpha-	000319-84-6	10000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000	1.0000	500.0	500.0	500.0	5000.0*	100	1000	11	0.0200	Yes	Yes
Hexachlorocyclohexane, beta-	000319-85-7	100	1.0E+00	1.0E+00*	2.0E-03	2.0E-03*	1.0000	1.0000	500.0	500.0	500.0	5000.0	...	...	6	0.0020	Yes	Yes
Hexachlorocyclohexane, delta-	000319-86-8	1	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000	1.0000	500.0	500.0	500.0	500.0	...	...	6	0.0200	Yes	Yes
Hexachlorocyclopentadiene	000077-47-4	10000	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	5000.0	5000.0	50.0	50.0	10000	10000	17	0.2000	Yes	Yes
Hexachloroethane	000067-72-1	1000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.4000	1.0000	500.0	500.0	500.0	500.0	1000	100	17	1.0000	Yes	No
Hexachlorophene	000070-30-4	10000	1.0E+00	1.0E-04*	1.0E+00	1.0E-04*	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	10000	10000	NA	NA	No	Yes
Hexane	000110-54-3	10	1.0E+00	1.0E-02	2.0E-01	2.0E-03	0.4000	1.0000	500.0	500.0	500.0	500.0	100	100	17	1.0000	Yes	No
Hexanone, 2-**	000591-78-6	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	5.0	5.0	5.0	5.0	1	1	17	1.0000	Yes	No
Hydrazine	000302-01-2	10000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00	1.0000	0.4000	0.5	0.5	0.5	0.5	10000*	100	17	1.0000	Yes	No
Hydrochloric acid	007647-01-0	100*	1.0E+00	1.0E+00	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	1	1	17	1.0000	Yes	No
Hydrogen cyanide	000074-90-8	1000*	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0700*	0.0700	0.5	0.5	0.5	0.5	1000	10000*	17	1.0000	Yes	No
Hydrogen sulfide	007783-06-4	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	0.5	0.5	0.5	0.5	1000	1000	17	1.0000	Yes	No
Indeno(1,2,3-cd)pyrene	000193-39-5	1000*	1.0E+00	1.0E-04	2.0E-05	2.0E-09	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	...	...	NA	NA	No	Yes
Ioxynil	001689-83-4	1000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.4000	0.0700	500.0	500.0	500.0	500.0	1000	1000	NA	NA	No	Yes
Iron	007439-89-6	1*	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	10	10	NA	NA	No	Yes
Isobutanol	000078-83-1	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000*	0.4000*	0.5	0.5	0.5	0.5	10	1	17	1.0000	Yes	No

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid Karst	Ground Water Mobility: Liquid Non-Karst	Ground Water Mobility: Non-Liquid Karst	Ground Water Mobility: Non-Liquid Non-Karst	Persistence River	Persistence Lake	Bioaccumulation: Food Chain Fresh	Bioaccumulation: Food Chain Salt	Bioaccumulation: Environmental Fresh	Bioaccumulation: Environmental Salt	Ecotoxicity Fresh	Ecotoxicity Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Isophorone	000078-59-1	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	5.0	5.0	5.0	5.0	1	1	11	1.0000	Yes	No
Kepone	000143-50-0	10000	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000*	1.0000*	50000.0	50000.0	50000.0	50000.0	10000	10000	0	0.0020	Yes	Yes
Lead	007439-92-1	10000	1.0E+00	1.0E-02	2.0E-03	2.0E-05	1.0000	1.0000	50.0	5000.0	5000.0	5000.0	1000	1000	NA	NA	No	Yes
Lindane	000058-89-9	10000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000	1.0000	500.0	500.0	500.0	500.0	10000	10000	11	0.0200	Yes	Yes
Magnesium	007439-95-4	...	1.0E+00	1.0E+00	...	...	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Malathion	000121-75-5	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	0.4000*	50.0	50.0	50.0	50.0	10000	10000	0	0.0020	Yes	Yes
Maleic anhydride	000108-31-6	10	1.0E+00	...	...	...	0.0007	0.0007	0.5	0.5	0.5	0.5	1	1	11	1.0000	Yes	No
Maleic hydrazide	000123-33-1	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	0.5	0.5	0.5	0.5	10	10	17	1.0000	Yes	No
Manganese	007439-96-5	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	50000.0	50000.0	...	...	NA	NA	No	Yes
Mercury	007439-97-6	10000	1.0E+00	1.0E-02*	2.0E-05	2.0E-07*	0.4000*	1.0000	50000.0	50000.0	50000.0	50000.0	10000	10000	17*	0.2000	Yes	Yes
Methacrylonitrile	000126-98-7	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	0.5	0.5	0.5	0.5	...	...	17	1.0000	Yes	No
Methanol	000067-56-1	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	0.5	0.5	0.5	0.5	10*	1	11	1.0000	Yes	No
Methomyl	016752-77-5	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	0.5	0.5	0.5	0.5	10000	10000	17	1.0000	Yes	No
Methoxychlor	000072-43-5	100	1.0E+00	1.0E-02*	2.0E-03	2.0E-05*	1.0000	1.0000	50000.0	5000.0	50000.0	5000.0	10000	10000	6	0.0020	Yes	Yes
Methyl chlorocarbonate	000079-22-1	100	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	17	1.0000	Yes	No
Methyl ethyl ketone	000078-93-3	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.4000	0.5	0.5	0.5	0.5	1	1	17	1.0000	Yes	No
Methyl isobutyl ketone	000108-10-1	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.4000*	5.0	5.0	5.0	5.0	1	1	17	1.0000	Yes	No
Methyl methacrylate	000080-62-6	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000*	5.0	5.0	5.0	5.0	1	1	17	1.0000	Yes	No
Methylcholanthrene, 3-**	000056-49-5	1000	1.0E+00	1.0E-04	2.0E-05	2.0E-09	1.0000	1.0000	50000.0	50000.0	50.0	50.0	...	...	6	0.0002	Yes	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Methylene bis (2-chloroaniline), 4,4-	000101-14-4	1000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000*	1.0000*	5.0*	5.0*	5.0*	5.0*	...	...	0	0.0002	Yes	Yes
Methylene bromide**	000074-95-3	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	...	...	17	1.0000	Yes	No
Methylene chloride	000075-09-2	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	1	10	17	1.0000	Yes	No
Methylenediphenyl diisocyanate, 4,4-	000101-68-8	10000	1.0E+00	...	...	...	0.0700*	0.0700	0.5	0.5	0.5	0.5	...	...	6	0.0020	Yes	Yes
Methylnaphthalene, 2-	000091-57-6	...	1.0E+00	1.0E-02	2.0E-01	2.0E-03	0.4000	0.4000	5000.0	5000.0	5000.0	5000.0	1000	1000	11	0.2000	Yes	Yes
Metribuzin	021087-64-9	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	100*	100*	17	1.0000	Yes	No
Mirex	002385-85-5	10000	1.0E+00	1.0E-04*	2.0E-05*	2.0E-09*	1.0000*	1.0000*	5000.0	50000.0	50000.0	50000.0	10000	10000	NA	NA	No	Yes
Molybdenum**	007439-98-7	100	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
N-nitroso-di-n-propylamine**	000621-64-7	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0007	0.0700	5.0	5.0	5.0	5.0	...	...	11	1.0000	Yes	No
N-nitrosopiperidine**	000100-75-4	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	0.5	0.5	0.5	0.5	...	...	11	1.0000	Yes	No
Naphthalene	000091-20-3	100*	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.4000	0.4000	500.0	5.0	500.0	5000.0	1000	1000	11	0.2000	Yes	Yes
Naphthylamine**	000091-59-8	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	50.0	50.0	50.0	50.0	...	...	6	0.0200	Yes	Yes
Nickel	007440-02-0	10000*	1.0E+00	1.0E-02	2.0E-03	2.0E-05	1.0000	1.0000	0.5	500.0	500.0	500.0	10	1000	NA	NA	No	Yes
Nitric acid	007697-37-2	10*	1.0E+00	1.0E+00	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	17	1.0000	Yes	No
Nitric oxide	010102-43-9	10	1.0E+00	1.0E+00	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	17*	1.0000*	Yes*	No*
Nitroaniline, 2-**	000088-74-4	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	5.0	5.0	5.0	5.0	10	10	11	0.0200	Yes	Yes
Nitroaniline, 3-**	000099-09-2	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	5.0	5.0	5.0	5.0	10	10	6	0.0200	Yes	Yes
Nitroaniline, p-	000100-01-6	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	5.0	5.0	5.0	5.0	10*	10*	0	0.0020	Yes	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

			Ground Water Mobility						Bioaccumulation									
			Liquid		Non-Liquid		Persistence		Food Chain		Environmental		Ecotoxicity					
Substance Name	CAS Number	Toxicity	Karst	Non-Karst	Karst	Non-Karst	River	Lake	Fresh	Salt	Fresh	Salt	Fresh	Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Nitrobenzene	000098-95-3	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	1.0000	5.0	5.0	5.0	5.0	100	10	11	1.0000	Yes	No
Nitrogen dioxide	010102-44-0	1000*	1.0E+00	1.0E+00	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	17	1.0000	Yes	No
Nitroglycerine	000055-63-0	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00	1.0000	0.4000*	50.0	50.0	50.0	50.0	100	100	6	0.0200	Yes	Yes
Nitrophenol, 2-**	000088-75-5	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	5.0	5.0	5.0	5.0	100	100	11	1.0000	Yes	No
Nitrophenol, 4-	000100-02-7	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	5.0	5.0	500.0	500.0	100	10	6	0.0200	Yes	Yes
Nitropropane, 2-**	000079-46-9	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	5.0	5.0	5.0	5.0	1	1	17	1.0000	Yes	No
Nitroso-di-n-butylamine, N-	000924-16-3	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0700*	0.0700*	50.0*	50.0*	50.0*	50.0*	...	...	11	0.2000	Yes	Yes
Nitroso-di-n-methylurethane, N-	000615-53-2	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	11	1.0000	Yes	No
Nitrosodiethanolamine, N-	001116-54-7	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	6	0.0200	Yes	Yes
Nitrosodiethylamine, N-	000055-18-5	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0700*	0.0700*	0.5	0.5	0.5	0.5	1	1	11	1.0000	Yes	No
Nitrosodimethylamine, N-	000062-75-9	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.0007*	0.0700*	0.5	0.5	0.5	0.5	1	1	11	1.0000	Yes	No
Nitrosodiphenylamine, N-	000086-30-6	10	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000	1.0000	500.0	500.0	500.0	500.0	100	100	6	0.0200	Yes	Yes
Nitrosomethylethylamine**	010595-95-6	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Nitrosopyrrolidine, N-	000930-55-2	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000*	1.0000*	0.5	0.5	0.5	0.5	...	...	6	0.2000	Yes	Yes
Nitrotoluene, 4-	000099-99-0	100	1.0E+00	1.0E+00*	2.0E-01*	2.0E-01*	1.0000	1.0000	50.0	50.0	50.0	50.0	10	10	11	0.2000	Yes	Yes
Octamethylpyrophosphoramide**	000152-16-9	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	100	100	NA	NA	No	Yes
Oxybis (1-chloropropane), 2,3'-**	000108-60-1	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	50.0	50.0	50.0	50.0	...	...	11	1.0000	Yes	No
Parathion, ethyl-	000056-38-2	100	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	500.0	500.0	500.0	500.0	10000	10000	6	0.0020	Yes	Yes
Parathion, methyl-	000298-00-0	10000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000	0.4000	50.0	50.0	50.0	50.0	10000	10000	6	0.0200	Yes	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

			Ground Water Mobility						Bioaccumulation									
			Liquid		Non-Liquid		Persistence		Food Chain		Environmental		Ecotoxicity					
Substance Name	CAS Number	Toxicity	Karst	Non-Karst	Karst	Non-Karst	River	Lake	Fresh	Salt	Fresh	Salt	Fresh	Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
PCBs	001336-36-3	10000	1.0E+00	1.0E-04	2.0E-03	2.0E-07	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	10000	10000	11	0.0200	Yes	Yes
Pentachlorinated dibenzo-p-dioxin, 1,2,3,7,8-	040321-76-4	10000*	1.0E+00	1.0E-04*	2.0E-03*	2.0E-07*	1.0000*	1.0000*	50000.0*	50000.0*	50000.0*	50000.0*	10000*	10000*	NA	NA	No	Yes
Pentachlorinated dibenzofuran, 1,2,3,7,8-	109719-77-9	10000*	1.0E+00	1.0E-04*	2.0E-05*	2.0E-09*	1.0000*	1.0000*	50000.0*	50000.0*	50000.0*	50000.0*	...	...	NA	NA	No	Yes
Pentachlorinated dibenzofuran, 2,3,4,7,8-	057117-41-6	10000*	1.0E+0D	1.0E-04*	2.0E-05*	2.0E-09*	1.0000*	1.0000*	50000.0*	50000.0*	50000.0*	50000.0*	...	...	NA	NA	No	Yes
Pentachlorobenzene	000608-93-5	1000	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	1000*	1000	11	0.2000	Yes	Yes
Pentachloroethane	000076-01-7	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	0.4000*	50.0	50.0	50.0	50.0	100	1	17	1.0000	Yes	No
Pentachloronitrobenzene	000082-68-8	1000	1.0E+00	1.0E-02	2.0E-03	2.0E-05	1.0000	1.0000	500.0	500.0	500.0	500.0	...	...	11	0.0200	Yes	Yes
Pentachlorophenol	000087-86-5	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	1.0000	500.0	500.0	5000.0	500.0	100	1000*	6	0.0200	Yes	Yes
Phenanthrene	000085-01-8	...	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000*	1.0000*	50.0	50.0	5000.0	50.0	1000	1000	11	0.0200	Yes	Yes
Phenol	000108-95-2	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	5.0	5.0	5.0	5.0	10000	100	11	1.0000	Yes	No
Phenyl sulfide	000139-66-2	10	1.0E+00	1.0E-02*	2.0E-01*	2.0E-03*	1.0000	1.0000	500.0	500.0	500.0	500.0	...	...	11	0.2000*	Yes	Yes
Phenylenediamine, m-**	000108-45-2	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	6	0.2000	Yes	Yes
Phenylmercuric acetate	000062-38-4	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	50.0*	50.0*	50.0*	50.0*	10000	1000	6	0.0002*	Yes	Yes
Phorate	000298-02-2	10000	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	0.4000	500.0	500.0	500.0*	500.0*	10000	10000	11	0.0200	Yes	Yes
Phosgene	000075-44-5	1000	1.0E+00	...	...	...	0.0007*	0.0700	0.5	0.5	0.5	0.5	...	...	17	1.0000	Yes	No
Phosphamidon	013171-21-6	1000	1.0E+00	...	1.0E+00*	...	0.4000	0.0700	0.5	0.5	0.5	0.5	10000	10000	11*	0.0200*	Yes*	Yes
Phosphine	007803-51-2	10000	1.0E+00	...	1.0E+00*	...	0.4000	0.0700	5000.0*	5000.0*	5000.0*	5000.0*	...	...	17	1.0000	Yes	No
Phosphonodithioic acid, phenyl-o-ethyl-o-(4-n	002104-64-5	10000	1.0E+00	1.0E-02*	2.0E-01*	2.0E-03*	0.4000	0.0700	50.0*	500.0	5000.0	500.0	10000	10000	NA	NA	No	Yes
Phosphoric acid	007664-38-2	1000*	1.0E+00	1.0E+00	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	10000	10000	NA	NA	No	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

			Ground Water Mobility						Bioaccumulation									
			Liquid		Non-Liquid		Persistence		Food Chain		Environmental		Ecotoxicity					
Substance Name	CAS Number	Toxicity	Karst	Non-Karst	Karst	Non-Karst	River	Lake	Fresh	Salt	Fresh	Salt	Fresh	Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Phosphorous (elemental)	007723-14-0	10000*	1.0E+00	1.0E+00	1.0E+00*	1.0E+00*	1.0000*	1.0000*	0.5	0.5	0.5	0.5	10000	10000	NA	NA	No	Yes
Phthalic anhydride	000085-44-9	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000*	0.4000*	0.5	0.5	0.5	0.5	...	...	6	0.0200	Yes	Yes
Plutonium	007440-07-5	...	1.0E+00	1.0E-04*	...	...	1.0000	1.0000	50.0	50.0	50000.0	50000.0	...	...	NA	NA	No	Yes
Polychlorinated triphenyl	012642-23-8	1	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	10	10	NA	NA	No	Yes
Potassium**	007440-09-7	...	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Potassium silver cyanide	000506-61-6	10	1.0E+00	1.0E+00	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Pronamide	023950-58-5	10	1.0E+00	1.0E+00*	2.0E-01*	2.0E-01*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	...	...	11	0.2000	Yes	Yes
Pyrene	000129-00-0	100	1.0E+00	1.0E-02*	2.0E-03*	2.0E-05*	1.0000	1.0000	50.0	5000.0*	50.0	5000.0*	10000*	10000*	6	0.0020	Yes	Yes
Pyridine	000110-86-1	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000*	0.5	0.5	0.5	0.5	100	10	11	1.0000	Yes	No
Quinoline	000091-22-5	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	0.4000*	0.5	0.5	50.0	50.0	1000	1000	11	0.2000	Yes	Yes
Radium	007440-14-4	...	1.0E+00	1.0E-02	2.0E-01*	2.0E-03*	1.0000	1.0000	5000.0*	5000.0*	5000.0*	5000.0*	...	...	NA	NA	No	Yes
Radon	010043-92-2	...	1.0E+00	1.0E+00	1.0E+00*	1.0E+00*	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	17*	1.0000*	Yes*	No*
Resorcinol	000108-46-3	1*	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	0.5*	0.5*	0.5*	0.5*	1000	10	6	0.0200	Yes	Yes
Ronnel	000299-84-3	10	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000	1.0000	5000.0	5000.0	5.0	5.0	10000	10000	NA	NA	No	Yes
Safrole**	000094-59-7	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	50.0	50.0	50.0	50.0	...	...	11	0.2000	Yes	Yes
Selenium	007782-49-2	100	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	5000.0	50.0	5000.0	50.0	1000*	100	NA	NA	No	Yes
Selenourea	000630-10-4	100	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Silver	007440-22-4	100	1.0E+00	1.0E+00*	2.0E-05	2.0E-05*	1.0000	1.0000	50.0	50.0	50.0	50.0	10000	10000	NA	NA	No	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Silver Cyanide	000506-64-9	10	1.0E+00	1.0E+00*	2.0E-05	2.0E-05*	1.0000	1.0000	500.0	500.0	500.0	500.0	...	...	NA	NA	No	Yes
Sodium	007440-23-5	...	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Strontium	007440-24-6	1	1.0E+00	1.0E-02*	1.0E+00*	1.0E-02*	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Strychnine	000057-24-9	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000*	1.0000*	5.0	5.0	5.0	5.0	1000	1000	NA	NA	No	Yes
Styrene	000100-42-5	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	100	100	17	1.0000	Yes	No
Sulfuric acid	007664-93-9	1000	1.0E+00	1.0E+00	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	10	10	11	0.0200	Yes	Yes
TB, 2,4,5-	000093-80-1	...	1.0E+00	1.0E-02	2.0E-01*	2.0E-03*	0.4000	0.0700	500.0	500.0	500.0	500.0	...	...	0	0.0020	Yes	Yes
TCDD	001746-01-6	10000	1.0E+00	1.0E-04	2.0E-05	2.0E-09	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	10000	10000	6	0.0002	Yes	Yes
Tetrachlorobenzene, 1,2,4,5-	000095-94-3	10000	1.0E+00	1.0E-02*	2.0E-03	2.0E-05*	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	100	1000	17	0.2000	Yes	Yes
Tetrachlorodibenzofuran, 2,3,7,8-	051207-31-9	10000*	1.0E+00	1.0E-04*	2.0E-03*	2.0E-07*	1.0000*	1.0000*	50000.0*	50000.0*	50000.0*	50000.0*	...	...	NA	NA	No	Yes
Tetrachloroethane, 1,1,1,2-	000630-20-6	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000*	50.0	50.0	50.0	50.0	10	10	17	1.0000	Yes	No
Tetrachloroethane, 1,1,2,2-	000079-34-5	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	5.0	5.0	5.0	5.0	100	10	11	1.0000	Yes	No
Tetrachloroethylene	000127-18-4	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	100	10	17	1.0000	Yes	No
Tetrachlorophenol, 2,3,4,6-	000058-90-2	100	1.0E+00	1.0E+00*	2.0E-01*	2.0E-01*	1.0000	0.4000*	500.0	500.0	5000.0	5000.0	1000	100	11	0.2000	Yes	Yes
Tetraethyl lead	000078-00-2	10000	1.0E+00	...	2.0E-03	...	0.0700	0.0700	500.0	500.0	500.0	500.0	100	10000	17	1.0000	Yes	No
Tetraethyldithiopyrophosphate	003689-24-5	1000	1.0E+00	...	2.0E-01*	...	0.4000	0.0700	5000.0*	5000.0*	5000.0*	5000.0*	1000*	1000*	11*	0.0200*	Yes*	Yes
Tetrahydrofuran	000109-99-9	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	1.0000	0.5	0.5	0.5	0.5	1	1	17	1.0000	Yes	No
Thallium	007440-28-0	100*	1.0E+00	1.0E-04	1.0E+00	1.0E-04	1.0000	1.0000	500.0	50.0	500.0	50.0	1*	100*	NA	NA	No	Yes
Thiourea	000062-56-6	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000*	0.5	0.5	0.5	0.5	100	100	0*	0.0002*	Yes	Yes

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** Indicates new hazardous substance in current version of chemical data (JUN96).

HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Thiram	000137-26-8	100	1.0E+00	...	2.0E-01	...	1.0000	1.0000*	5000.0	5000.0	5000.0	5000.0	10000	10000	NA	NA	No	Yes
Toluene	000108-88-3	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	0.4000	50.0	50.0	50.0	50.0	100	100	17	1.0000	Yes	No
Toluene diisocyanate	000584-84-9	10000*	1.0E+00	...	...	...	0.4000	0.0700	0.5	0.5	0.5	0.5	1	1	11	0.2000	Yes	Yes
Toluenediamine, 2,4-**	000095-80-7	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	1	1	6	0.0200	Yes	Yes
Toluidine, o-**	000095-53-4	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	5.0	5.0	5.0	5.0	1000	1000	11	1.0000	Yes	No
Toluidine, p-**	000106-49-0	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	5.0	5.0	5.0	5.0	1	1	11	1.0000	Yes	No
Toxaphene	008001-35-2	1000	1.0E+00	1.0E-02	2.0E-03	2.0E-05	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	10000	10000	6	0.0020	Yes	Yes
TP, 2,4,5-	000093-72-1	100	1.0E+00	1.0E-02	1.0E+00	1.0E-02	0.4000	0.0700	500.0	500.0	500.0	500.0	1000	1000	0	0.0020	Yes	Yes
Tribromomethane	000075-25-2	100	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	50.0	50.0	50.0	50.0	10	100*	11	1.0000	Yes	No
Trichloro-1,2,2-Trifluoroethane, 1,1,2-	000076-13-1	1	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	...	...	17	1.0000	Yes	No
Trichlorobenzene, 1,2,4-	000120-82-1	100*	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	0.4000	1.0000	500.0	500.0	500.0	500.0	1000	1000	17	1.0000	Yes	No
Trichloroethane, 1,1,1-	000071-55-6	1	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	5.0	5.0	5.0	5.0	10	10	17	1.0000	Yes	No
Trichloroethane, 1,1,2-	000079-00-5	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	10	10	17	1.0000	Yes	No
Trichloroethylene	000079-01-6	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	100	10	17	1.0000	Yes	No
Trichlorofluoromethane	000075-69-4	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	...	...	17	1.0000	Yes	No
Trichlorophenol, 2,3,5-	000933-78-8	...	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	1000*	100*	6	0.0200	Yes	Yes
Trichlorophenol, 2,3,6-	000933-75-5	...	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000	1.0000	500.0	500.0	500.0	500.0	100*	100*	6	0.0200	Yes	Yes
Trichlorophenol, 2,4,5-	000095-95-4	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000	0.4000	500.0	500.0	5000.0	5000.0	1000	100	11	0.2000	Yes	Yes
Trichlorophenol, 2,4,6-	000088-06-2	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	0.4000	500.0	500.0	50000.0	50000.0	1000	100	11	0.2000	Yes	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid Karst	Ground Water Mobility: Liquid Non-Karst	Ground Water Mobility: Non-Liquid Karst	Ground Water Mobility: Non-Liquid Non-Karst	Persistence River	Persistence Lake	Bioaccumulation: Food Chain Fresh	Bioaccumulation: Food Chain Salt	Bioaccumulation: Environmental Fresh	Bioaccumulation: Environmental Salt	Ecotoxicity Fresh	Ecotoxicity Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Trichlorophenol, 3,4,5-	000609-19-8	...	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	500.0	500.0	500.0	500.0	1000	100*	11	0.0200	Yes	Yes
Trichlorophenoxyacetic acid, 2,4,5-	000093-76-5	100	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	1.0000*	0.4000*	500.0*	500.0*	500.0	500.0	10000	100*	0	0.0020	Yes	Yes
Trichloropropane, 1,2,3-	000096-18-4	10000*	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0*	50.0*	50.0*	50.0*	10	10	11	1.0000	Yes	No
Triethanolamine	000102-71-6	1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	0.5	0.5	0.5	0.5	1	10*	0	0.0020	Yes	Yes
Trifluralin	001582-09-8	100	1.0E+00	1.0E-02*	2.0E-01	2.0E-03*	1.0000	1.0000	5000.0	5000.0	50000.0	50000.0	10000	1000	11	0.0200	Yes	Yes
Trinitrobenzene, 1,3,5-	000099-35-4	10000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.0700	5.0	5.0	5.0	5.0	1000*	1000*	6	0.0200	Yes	Yes
Trinitrotoluene	000118-96-7	1000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.0700*	0.0700*	5.0	5.0	5.0	5.0	100	100	0*	0.0020*	Yes	Yes
Tris (2,3-dibromopropyl) phosphate	000126-72-7	1000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000	0.4000*	500.0*	500.0*	5.0	5.0	...	...	11	0.0200	Yes	Yes
Vanadium	007440-62-2	100	1.0E+00	1.0E-02	...	...	1.0000	1.0000	0.5	0.5	0.5	0.5	...	...	NA	NA	No	Yes
Vanadium pentoxide	001314-62-1	100	1.0E+00	...	...	...	1.0000	1.0000	0.5	0.5	0.5	0.5	1000*	1000*	NA	NA	No	Yes
Vinyl acetate	000108-05-4	10	1.0E+00	1.0E+00	1.0E+00	1.0E+00	0.4000	0.4000	0.5	0.5	0.5	0.5	10	10	17	1.0000	Yes	No
Vinyl chloride	000075-01-4	10000	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.0007	0.0700	5.0	5.0	5.0	5.0	...	...	17	1.0000	Yes	No
Warfarin	000081-81-2	10000	1.0E+00	1.0E+00*	2.0E-01	2.0E-01*	1.0000*	1.0000*	50.0	50.0	50.0	50.0	10	10	NA	NA	No	Yes
Xylene, m-	000108-38-3	1	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	500.0	500.0	500.0	500.0	100	10	17	1.0000	Yes	No
Xylene, o-	000095-47-6	1	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	100	100	17	1.0000	Yes	No
Xylene, p-	000106-42-3	10	1.0E+00	1.0E+00*	1.0E+00	1.0E+00*	0.4000	1.0000	50.0	50.0	50.0	50.0	100	1	17	1.0000	Yes	No
Zinc	007440-66-6	10	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	500.0	50000.0	500.0	50000.0	10	100	NA	NA	No	Yes
Zinc cyanide	000557-21-1	10	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	...	...	NA	NA	No	Yes

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HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
375 Substances

			Ground Water Mobility						Bioaccumulation									
			Liquid		Non-Liquid		Persistence		Food Chain		Environmental		Ecotoxicity					
Substance Name	CAS Number	Toxicity	Karst	Non-Karst	Karst	Non-Karst	River	Lake	Fresh	Salt	Fresh	Salt	Fresh	Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Zinc phosphide	001314-84-7	10000	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	50000.0	50000.0	50000.0	50000.0	...	...	NA	NA	No	Yes
Zinc sulfate	007733-02-0	10	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	5.0	50.0	50.0	50000.0	10000	10000	NA	NA	No	Yes

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** Indicates new hazardous substance in current version of chemical data (JUN96).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Acenaphthene	000083-32-9	...	...	...	...	2.2E+00*	...
Acenaphthylene	000208-96-8	...	...	...	...	...	...
Acetaldehyde	000075-07-0	...	9.4E-03*	1.1E-03*	...	...	...
Acetone	000067-64-1	...	...	...	...	3.7E+00*	...
Acetonitrile	000075-05-8	...	2.2E-01*	...	...	2.2E-01*	...
Acetophenone	000098-86-2	...	...	...	...	3.7E+00*	...
Acetyl-2-thiourea, 1-	000591-08-2	...	...	...	...	...	...
Acrolein	000107-02-8	...	2.1E-05*	...	...	7.3E-01*	...
Acrylamide	000079-06-1	...	...	1.9E-06*	...	7.3E-03*	1.9E-05*
Acrylic acid	000079-10-7	...	1.0E-03*	...	...	1.8E+01*	...
Acrylonitrile	000107-13-1	...	2.1E-03*	3.6E-05*	...	3.7E-02*	1.6E-04*
Adipic acid	000124-04-9	...	...	...	...	...	...
Aldicarb	000116-06-3	...	...	...	...	3.7E-02*	...
Aldrin	000309-00-2	...	...	5.0E-07*	...	1.1E-03*	5.0E-06*
Allyl alcohol	000107-18-6	...	...	...	...	1.8E-01*	...
Allyl chloride**	000107-05-1	...	1.0E-03	...	...	...	...
Aluminum	007429-90-5	...	...	...	...	...	...
Aluminum phosphide	020859-73-8	...	...	...	...	1.5E-02*	...
Ammonia	007664-41-7	...	1.0E-01*	...	...	3.5E+01*	...

Indicates difference between previous version of chemical data (JUN94) [illegible] current version of chemical data (JUN96).
Indicates new hazardous substance in current version of chemical data ([illegible]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Ammonium picrate	000131-74-8	...	...	...	...	...	...
Ammonium sulfamate	007773-06-0	...	...	...	...	7.3E+00*	...
Aniline	000062-53-3	...	1.0E-03*	...	...	...	1.5E-02*
Anthracene	000120-12-7	...	...	...	...	1.1E+01*	...
Antimony	007440-36-0	...	...	...	6.0E-03	1.5E-02*	...
Arsenic	007440-38-2	...	...	5.7E-07*	5.0E-02	1.1E-02*	5.7E-05*
Asbestos	001332-21-4	...	...	3.7E-05* fibers/mL	7.0E+00*	...	...
Atrazine	001912-24-9	...	...	...	3.0E-03	1.3E+00*	3.8E-04*
Azinphos- ethyl	002642-71-9	...	...	...	...	...	...
Azinphos- methyl	000086-50-0	...	...	...	...	...	...
Aziridine	000151-56-4	...	...	...	...	...	...
Barium	007440-39-3	...	5.2E-04*	...	2.0E+00	2.6E+00*	...
Barium cyanide	000542-62-1	...	...	...	...	... *	...
Benz(a)anthracene	000056-55-3	...	...	...	...	...	1.2E-04*
Benzene	000071-43-2	...	...	2.9E-04*	5.0E-03	...	2.9E-03*
Benzene carbonyl chloride	000098-88-4	...	...	...	...	...	...
Benzidine	000092-87-5	...	...	3.6E-08*	...	1.1E-01*	3.7E-07*
Benzo(a)pyrene	000050-32-8	...	...	...	2.0E-04	...	1.2E-05*

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Benzo(b)fluoranthene	000205-99-2	...	...	...	...	...	1.2E-04*
Benzo(g,h,i)perylene	000191-24-2	...	...	...	...	...	...
Benzo(k)fluoranthene	000207-08-9	...	...	...	...	...	1.2E-03*
Benzoic acid	000065-85-0	...	...	...	...	1.5E+02*	...
Benzonitrile	000100-47-0	...	...	...	...	...	...
Benzothiazole, 1,2,-	000095-16-9	...	...	...	...	...	...
Benzyl alcohol**	000100-51-6	...	...	...	...	1.1E+01	...
Benzyl chloride	000100-44-7	...	...	...	...	...	5.0E-04*
Beryllium	007440-41-7	1.0E-02	...	1.0E-06*	4.0E-03	1.8E-01*	2.0E-05*
Biphenyl, 1,1-	000092-52-4	...	...	...	...	1.8E+00*	...
Bis (2-ethylhexyl) phthalate	000117-81-7	...	...	...	6.0E-03*	7.3E-01*	6.1E-03*
Bis(2-chloroethoxy)methane	000111-91-1	...	...	...	...	...	...
Bis(2-chloroethyl)ether	000111-44-4	...	...	7.4E-06*	...	...	7.7E-05*
Bis(2-chloroisopropyl)ether**	039638-32-9	...	...	2.4E-04	...	1.5E+00	1.2E-03
Bis(chloromethyl)ether	000542-88-1	...	...	3.9E-08*	...	...	3.9E-07*
Boron	007440-42-8	...	2.1E-02*	...	...	3.3E+00*	...
Bromodichloromethane	000075-27-4	...	...	...	1.0E-01*	7.3E-01*	1.4E-03*
Bromomethane	000074-83-9	...	5.2E-03*	...	...	5.1E-02*	...
Bromophenyl-phenylether, 4-**	000101-55-3	...	...	...	...	...	...

Indicates difference between previous version of chemical data (JUN94) [redacted] current version of chemical data (JUN96).
Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Bromoxynil	001689-84-5	...	...	...	...	7.3E-01*	...
Butadiene, 1,3-	000106-99-0	...	...	8.7E-06*	...	...	...
Butanol	000071-36-3	...	...	...	...	3.7E+00*	...
Butylbenzyl phthalate	000085-68-7	...	...	...	...	7.3E+00*	...
Butyric acid, 4-(2,4-dichlorophenoxy)	000094-82-6	...	...	...	...	2.9E-01*	...
Cadmium	007440-43-9	...	...	1.4E-06*	5.0E-03	1.8E-02*	...
Calcium**	007440-70-2	...	...	...	...	...	...
Captan	000133-06-2	...	...	...	...	4.7E+00*	2.4E-02*
Carbaryl	000063-25-2	...	...	...	...	3.7E+00*	...
Carbazole**	000086-74-8	...	...	...	...	...	4.3E-03
Carbofuran	001563-66-2	...	...	...	4.0E-02	1.8E-01*	...
Carbon disulfide	000075-15-0	...	7.3E-01*	...	...	3.7E+00*	...
Carbon tetrachloride	000056-23-5	...	...	1.6E-04*	5.0E-03	2.6E-02*	6.6E-04*
Carbophenothion	000786-19-6	...	...	...	...	...	...
Cesium	007440-46-2	...	...	...	...	...	...
Chloral	000075-87-6	...	...	...	...	7.3E-02*	...
Chlordane	000057-74-9	...	...	6.6E-06*	2.0E-03	2.2E-03*	6.6E-05*
Chlordane, alpha-**	005103-71-9	...	...	...	...	...	...
Chlordane, gamma-**	005566-34-7	...	...	...	...	...	...

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Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Chlorine cyanide	000506-77-4	...	...	...	...	1.8E+00*	...
Chloro-3-methylphenol, 4-	000059-50-7	...	...	...	...	7.3E+01*	...
Chloroaniline, p-	000106-47-8	...	...	...	...	1.5E-01*	...
Chlorobenzene	000108-90-7	...	2.1E-02*	...	1.0E-01*	7.3E-01*	...
Chlorobenzilate**	000510-15-6	...	...	3.2E-05	...	7.3E-01	3.2E-04
Chloroform	000067-66-3	...	...	1.1E-04*	1.0E-01*	3.7E-01*	1.4E-02*
Chloromethane	000074-87-3	...	...	1.4E-03*	...	...	6.6E-03*
Chloromethyl methyl ether	000107-30-2	...	...	...	...	...	...
Chloromethyloxirane, 2-	000106-89-8	...	1.0E-03*	2.0E-03*	...	7.3E-02*	8.6E-03*
Chloronaphthalene, 2-	000091-58-7	...	...	...	...	2.9E+00*	...
Chlorophenol, 2-	000095-57-8	...	...	...	...	1.8E-01*	...
Chlorophenyl-phenyl ether, 4-**	007005-72-3	...	...	...	...	...	...
Chloroprene**	000126-99-8	...	7.3E-03	...	...	...	...
Chlorpyrifos	002921-88-2	...	...	...	...	1.1E-01*	...
Chromium	007440-47-3	...	...	2.0E-07*	1.0E-01	1.8E-01*	...
Chromium(III)	016065-83-1	...	...	...	...	3.7E+01*	...
Chromium(VI)	018540-29-9	...	...	2.0E-07*	...	1.8E-01*	...
Chrysene	000218-01-9	...	...	...	...	...	1.2E-02*

Indicates difference between previous version of chemical data (JUN94) [redacted] current version of chemical data (JUN96).
Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Cobalt	007440-48-4	...	...	...	...	...	...
Copper	007440-50-8	...	...	...	1.3E+00	...	...
Copper cyanide	000544-92-3	...	...	...	...	1.8E-01*	...
Coumaphos	000056-72-4	...	...	...	...	...	...
Creosote	008001-58-9	...	...	...	...	...	...
Cresol, m-	000108-39-4	...	...	...	...	1.8E+00*	...
Cresol, o-**	000095-48-7	...	...	...	...	1.8E+00	...
Cresol, p-	000106-44-5	...	...	...	...	1.8E-01*	...
Cumene	000098-82-8	...	9.4E-03*	...	...	1.5E+00*	...
Cyanazine	021725-46-2	...	...	...	...	7.3E-02*	1.0E-04*
Cyanide	000057-12-5	...	...	...	2.0E-01	7.3E-01*	...
Cyanogen	000460-19-5	...	...	...	...	1.5E+00*	...
Cyanogen bromide	000506-68-3	...	...	...	...	3.3E+00*	...
Cyclohexane	000110-82-7	...	...	...	...	...	...
Cyclohexanone	000108-94-1	...	...	...	...	1.8E+02*	...
Cyclotrimethylenetrinitriamine	000121-82-4	...	...	...	...	1.1E-01*	7.7E-04*
DDD	000072-54-8	...	...	...	...	...	3.6E-04*
DDE	000072-55-9	...	...	...	...	...	2.5E-04*
DDT	000050-29-3	...	...	2.5E-05*	...	1.8E-02*	2.5E-04*

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
DEF	000078-48-8	...	...	...	...	1.1E-03*	...
Di-n-butyl phthalate	000084-74-2	...	...	...	...	3.7E+00*	...
Di-n-octyl phthalate	000117-84-0	...	...	...	...	7.3E-01*	...
Diallate**	002303-16-4	...	...	...	...	...	1.4E-03
Diazinon	000333-41-5	...	...	...	...	3.3E-02*	...
Dibenz(a,h)anthracene	000053-70-3	...	...	...	...	...	1.2E-05*
Dibenzofuran	000132-64-9	...	...	...	...	...	...
Dibromo-3-chloropropane, 1,2-	000096-12-8	...	2.1E-04*	3.6E-03*	2.0E-04*	...	6.1E-05*
Dibromochloromethane	000124-48-1	...	...	...	6.0E-02*	7.3E-01*	1.0E-03*
Dibromoethane, 1,2-	000106-93-4	...	2.1E-04*	1.1E-05*	5.0E-05	...	1.0E-06*
Dicamba	001918-00-9	...	...	...	...	1.1E+00*	...
Dichlorobenzene, 1,2-	000095-50-1	...	2.1E-01*	...	6.0E-01	3.3E+00*	...
Dichlorobenzene, 1,3-	000541-73-1	...	...	...	6.0E-01	...	...
Dichlorobenzene, 1,4-	000106-46-7	...	8.3E-01*	...	7.5E-02	...	3.6E-03*
Dichlorobenzidine, 3,3-	000091-94-1	...	...	...	...	...	1.9E-04*
Dichlorodifluoromethane	000075-71-8	...	2.1E-01*	...	...	7.3E+00*	...
Dichloroethane, 1,1-	000075-34-3	...	3.7E-01*	...	...	3.7E+00*	...
Dichloroethane, 1,2-	000107-06-2	...	...	9.4E-05*	5.0E-03	...	9.4E-04*
Dichloroethylene, 1,1-	000075-35-4	...	...	4.9E-05*	7.0E-03	3.3E-01*	1.4E-04*

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Dichloroethylene, cis-1,2-	000156-59-2	...	...	...	7.0E-02	3.7E-01*	...
Dichloroethylene, trans-1,2-	000156-60-5	...	...	...	1.0E-01	7.3E-01*	...
Dichlorophenol, 2,4-	000120-83-2	...	...	...	...	1.1E-01*	...
Dichlorophenoxyacetic acid, 2,4-	000094-75-7	...	...	...	7.0E-02	3.7E-01*	...
Dichloropropane, 1,2-	000078-87-5	...	4.2E-03*	...	5.0E-03	...	1.3E-03*
Dichloropropene, 1,3-	000542-75-6	...	2.1E-02*	6.6E-05*	...	1.1E-02*	4.7E-04*
Dichloropropene, cis-1,3-**	010061-01-5	...	...	...	...	...	...
Dichloropropene, trans-1,3-**	010061-02-6	...	...	...	...	...	...
Dichlorvos	000062-73-7	...	5.2E-04*	...	...	1.8E-02*	2.9E-04*
Dicofol	000115-32-2	...	...	...	...	...	...
Dieldrin	000060-57-1	...	...	5.3E-07*	...	1.8E-03*	5.3E-06*
Diethyl phthalate	000084-66-2	...	...	...	...	2.9E+01*	...
Diethylene glycol	000111-46-6	...	...	...	...	...	...
Diethylstibestrol**	000056-53-1	...	...	...	...	...	1.8E-08
Diisopropylmethyl-phosphonate	001445-75-6	...	...	...	...	2.9E+00*	...
Dimethoate	000060-51-5	...	...	...	...	7.3E-03*	...
Dimethoxybenzidine, 3,3-	000119-90-4	...	...	...	...	...	6.1E-03*
Dimethyl phenol, 2,4-	000105-67-9	...	...	...	...	7.3E-01*	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Dimethyl phthalate	000131-11-3	...	...	...	...	... *	...
Dimethyl sulfate	000077-78-1	...	...	...	...	...	...
Dimethylbenz(a)anthracene, 7,12-**	000057-97-6	...	...	...	...	...	...
Dimethylbenzidine, 3,3'-**	000119-93-7	...	...	...	...	...	9.3E-06
Dinitro-2-methylphenol, 4,6-**	000534-52-1	...	...	...	...	...	...
Dinitrobenzene, 1,3-	000099-65-0	...	...	...	...	3.7E-03*	...
Dinitrophenol, 2,4-	000051-28-5	...	...	...	...	7.3E-02*	...
Dinitrotoluene, 2,4-	000121-14-2	...	...	...	...	7.3E-02*	1.3E-04*
Dinitrotoluene, 2,6-	000606-20-2	...	...	...	...	3.7E-02*	1.3E-04*
Dinoseb	000088-85-7	...	...	...	7.0E-03	3.7E-02*	...
Dioxane, 1,4-	000123-91-1	...	...	...	...	...	7.7E-03*
Dioxathion	000078-34-2	...	...	...	...	...	...
Diphenylamine**	000122-39-4	...	...	...	...	9.1E-01	...
Diphenylhydrazine, 1,2-	000122-66-7	...	...	1.1E-05*	...	...	1.1E-04*
Diquat	000085-00-7	...	...	...	2.0E-02	8.0E-02*	...
Disulfoton	000298-04-4	...	...	...	...	1.5E-03*	...
Diuron	000330-54-1	...	...	...	...	7.3E-02*	...
Endosulfan (I or II)	000115-29-7	...	...	...	...	2.2E-01*	...
Endosulfan sulfate	001031-07-8	...	...	...	...	...	...

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Endothall	000145-73-3	...	...	...	1.0E-01	7.3E-01*	...
Endrin	000072-20-8	...	...	...	2.0E-03	1.1E-02*	...
Endrin aldehyde	007421-93-4	...	...	...	...	...	...
Endrin ketone**	053494-70-5	...	...	...	...	...	...
Ethion	000563-12-2	...	...	...	...	1.8E-02*	...
Ethyl acetate	000141-78-6	...	...	...	...	3.3E+01*	...
Ethyl benzene	000100-41-4	...	1.0E+00*	...	7.0E-01	3.7E+00*	...
Ethyl chloride	000075-00-3	...	1.0E+01*	...	...	...	...
Ethyl ether	000060-29-7	...	...	...	...	7.3E+00*	...
Ethyl methacrylate**	000097-63-2	...	...	...	...	3.3E+00	...
Ethyl methanesulfonate**	000062-50-0	...	...	...	...	...	...
Ethyldipropylthiocarbamate, s-	000759-94-4	...	...	...	...	9.1E-01*	...
Ethylene glycol	000107-21-1	...	...	...	...	7.3E+01*	...
Ethylene glycol monoethyl ether	000110-80-5	...	2.1E-01*	...	...	1.5E+01*	...
Ethylene thiourea**	000096-45-7	...	...	...	...	2.9E-03	7.7E-04
Fenthion	000055-38-9	...	...	...	...	...	...
Ferrous sulfate	007720-78-7	...	...	...	...	...	...
Fluoranthene	000206-44-0	...	...	...	...	1.5E+00*	...
Fluorene	000086-73-7	...	...	...	...	1.5E+00*	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Fluorine	007782-41-4	...	...	...	...	2.2E+00*	...
Formaldehyde	000050-00-0	...	...	1.9E-04*	...	7.3E+00*	...
Formic acid	000064-18-6	...	...	...	...	7.3E+01*	...
Furan	000110-00-9	...	...	...	...	3.7E-02*	...
Furfural	000098-01-1	...	5.2E-02*	...	...	1.1E-01*	...
Glycidylaldehyde	000765-34-4	...	5.2E-04*	...	...	1.5E-02*	...
Heptachlor	000076-44-8	...	...	1.9E-06*	4.0E-04	1.8E-02*	1.9E-05*
Heptachlor epoxide	001024-57-3	...	...	9.4E-07*	2.0E-04	4.7E-04*	9.4E-06*
Heptachlorinated dibenzo-p-dioxin, 1,2,3,4,6,7,8-	035822-46-9	...	...	5.3E-09*	...	...	5.3E-08*
Heptachlorinated dibenzofuran, 1,2,3,4,6,7,8-	067562-39-4	...	...	5.3E-09*	...	...	5.3E-08*
Heptachlorinated dibenzofuran, 1,2,3,4,6,7,9-	055673-89-7	...	...	... *	...	...	... *
Hexabromobenzene	000087-82-1	...	...	...	...	7.3E-02*	...
Hexachlorinated dibenzo-p-dioxin, 1,2,3,4,7,8-	039227-28-6	...	...	5.3E-10*	...	...	5.3E-09*
Hexachlorinated dibenzo-p-dioxin, 1,2,3,6,7,8-	057653-85-7	...	...	1.9E-09*	...	...	1.4E-08*
Hexachlorinated dibenzo-p-dioxin, 1,2,3,7,8,9-	019408-74-3	...	...	1.9E-09*	...	...	1.4E-08*
Hexachlorinated dibenzofuran, 1,2,3,4,7,8-	070648-26-9	...	...	5.3E-10*	...	...	5.3E-09*
Hexachlorinated dibenzofuran, 1,2,3,6,7,8-	057117-44-9	...	...	5.3E-10*	...	...	5.3E-09*
Hexachlorinated dibenzofuran, 1,2,3,7,8,9-	072918-21-9	...	...	5.3E-10*	...	...	5.3E-09*

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Hexachlorinated dibenzofuran, 2,3,4,6,7,8-	060851-34-5	...	...	5.3E-10*	...	...	5.3E-09*
Hexachlorobenzene	000118-74-1	...	...	5.3E-06*	1.0E-03	2.9E-02*	5.3E-05*
Hexachlorobutadiene	000087-68-3	...	...	1.1E-04*	...	7.3E-03*	1.1E-03*
Hexachlorocyclohexane, alpha-	000319-84-6	...	...	1.4E-06*	...	...	1.4E-05*
Hexachlorocyclohexane, beta-	000319-85-7	...	...	4.6E-06*	...	...	4.7E-05*
Hexachlorocyclohexane, delta-	000319-86-8	...	...	...	...	...	...
Hexachlorocyclopentadiene	000077-47-4	...	7.3E-05*	...	5.0E-02	2.6E-01*	...
Hexachloroethane	000067-72-1	...	...	6.1E-04*	...	3.7E-02*	6.1E-03*
Hexachlorophene	000070-30-4	...	...	...	...	1.1E-02*	...
Hexane	000110-54-3	...	2.1E-01*	...	...	2.2E+00*	...
Hexanone, 2-**	000591-78-6	...	...	...	...	...	...
Hydrazine	000302-01-2	...	...	5.0E-07*	...	...	2.8E-05*
Hydrochloric acid	007647-01-0	...	2.1E-02*	...	...	...	...
Hydrogen cyanide	000074-90-8	...	3.1E-03*	...	...	7.3E-01*	...
Hydrogen sulfide	007783-06-4	...	1.0E-03*	...	...	1.1E-01*	...
Indeno(1,2,3-cd)pyrene	000193-39-5	...	...	...	...	...	1.2E-04*
Ioxynil	001689-83-4	...	...	...	...	...	...
Iron	007439-89-6	...	...	...	...	...	...
Isobutanol	000078-83-1	...	...	...	...	1.1E+01*	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Isophorone	000078-59-1	...	...	...	...	7.3E+00*	9.0E-02*
Kepone	000143-50-0	...	...	...	...	...	...
Lead	007439-92-1	1.5E+00	...	...	1.5E-02	...	...
Lindane	000058-89-9	...	...	...	2.0E-04	1.1E-02*	6.6E-05*
Magnesium	007439-95-4	...	...	...	...	...	...
Malathion	000121-75-5	...	...	...	...	7.3E-01*	...
Maleic anhydride	000108-31-6	...	...	...	...	3.7E+00*	...
Maleic hydrazide	000123-33-1	...	...	...	...	1.8E+01*	...
Manganese	007439-96-5	...	5.2E-05*	...	...	5.1E+00*	...
Mercury	007439-97-6	...	3.1E-04*	...	2.0E-03	1.1E-02*	...
Methacrylonitrile	000126-98-7	...	3.7E-03*	...	...	3.7E-03*	...
Methanol	000067-56-1	...	...	...	...	1.8E+01*	...
Methomyl	016752-77-5	...	...	...	...	9.1E-01*	...
Methoxychlor	000072-43-5	...	...	...	4.0E-02	1.8E-01*	...
Methyl chlorocarbonate	000079-22-1	...	...	...	...	...	...
Methyl ethyl ketone	000078-93-3	...	1.0E+00*	...	...	2.2E+01*	...
Methyl isobutyl ketone	000108-10-1	...	8.3E-02*	...	...	2.9E+00*	...
Methyl methacrylate	000080-62-6	...	...	...	...	2.9E+00*	...
Methylcholanthrene, 3-**	000056-49-5	...	...	...	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Methylene bis (2-chloroaniline), 4,4-	000101-14-4	...	...	6.6E-05*	...	2.6E-02*	6.6E-04*
Methylene bromide**	000074-95-3	...	...	...	...	...	...
Methylene chloride	000075-09-2	...	3.1E+00*	5.2E-03*	5.0E-03	2.2E+00*	1.1E-02*
Methylenediphenyl diisocyanate, 4,4-	000101-68-8	...	2.1E-05*	...	...	...	...
Methylnaphthalene, 2-	000091-57-6	...	...	...	...	...	...
Metribuzin	021087-64-9	...	...	...	...	9.1E-01*	...
Mirex	002385-85-5	...	...	...	...	7.3E-03*	... *
Molybdenum**	007439-98-7	...	...	...	...	1.8E-01	...
N-nitroso-di-n-propylamine**	000621-64-7	...	...	...	...	...	1.2E-05
N-nitrosopiperidine**	000100-75-4	...	...	...	...	...	...
Naphthalene	000091-20-3	...	1.5E-01*	...	...	1.5E+00*	...
Naphthylamine**	000091-59-8	...	...	...	...	...	...
Nickel	007440-02-0	...	...	...	... *	7.3E-01*	...
Nitric acid	007697-37-2	...	...	...	...	...	...
Nitric oxide	010102-43-9	...	...	...	...	... *	...
Nitroaniline, 2-**	000088-74-4	...	2.1E-04	...	...	...	...
Nitroaniline, 3-**	000099-09-2	...	...	...	...	...	...
Nitroaniline, p-	000100-01-6	...	...	...	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY: NAAQS NESHAPS (ug/m^3)	AIR PATHWAY: Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY: Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY: MCL/MCLG (mg/L)	GROUND WATER PATHWAY: Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY: Cancer Risk Screen Conc (mg/L)
Nitrobenzene	000098-95-3	...	1.8E-02*	...	...	1.8E-02*	...
Nitrogen dioxide	010102-44-0	1.0E+02	...	...	...	... *	...
Nitroglycerine	000055-63-0	...	...	...	...	...	...
Nitrophenol, 2-**	000088-75-5	...	...	...	...	...	...
Nitrophenol, 4-	000100-02-7	...	...	...	...	...	...
Nitropropane, 2-**	000079-46-9	...	2.1E-02	9.1E-07	...	...	...
Nitroso-di-n-butylamine, N-	000924-16-3	...	...	1.5E-06*	...	...	1.6E-05*
Nitroso-di-n-methylurethane, N-	000615-53-2	...	...	...	...	...	...
Nitrosodiethanolamine, N-	001116-54-7	...	...	...	...	...	3.0E-05*
Nitrosodiethylamine, N-	000055-18-5	...	...	5.7E-08*	...	...	5.7E-07*
Nitrosodimethylamine, N-	000062-75-9	...	...	1.7E-07*	...	...	1.7E-06*
Nitrosodiphenylamine, N-	000086-30-6	...	...	...	...	...	1.7E-02*
Nitrosomethylethylamine**	010595-95-6	...	...	...	...	...	3.9E-06
Nitrosopyrrolidine, N-	000930-55-2	...	...	4.0E-06*	...	...	4.1E-05*
Nitrotoluene, 4-	000099-99-0	...	...	...	...	3.7E-01*	...
Octamethylpyrophosphoramide**	000152-16-9	...	...	...	...	7.3E-02	...
Oxybis (1-chloropropane), 2,3'-**	000108-60-1	...	...	...	...	...	...
Parathion, ethyl-	000056-38-2	...	...	...	...	2.2E-01*	...
Parathion, methyl-	000298-00-0	...	...	...	...	9.1E-03*	...

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Indicates new hazardous substance in current version of chemical data ([illegible]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
PCBs	001336-36-3	...	...	...	5.0E-04	7.3E-04*	1.1E-05*
Pentachlorinated dibenzo-p-dioxin, 1,2,3,7,8-	040321-76-4	...	...	1.1E-10*	...	...	1.1E-09*
Pentachlorinated dibenzofuran, 1,2,3,7,8-	109719-77-9	...	...	1.1E-09*	...	...	1.1E-08*
Pentachlorinated dibenzofuran, 2,3,4,7,8-	057117-41-6	...	...	1.1E-10*	...	...	1.1E-09*
Pentachlorobenzene	000608-93-5	...	...	...	...	2.9E-02*	...
Pentachloroethane	000076-01-7	...	...	...	...	...	...
Pentachloronitrobenzene	000082-68-8	...	...	...	...	1.1E-01*	3.3E-04*
Pentachlorophenol	000087-86-5	...	...	...	1.0E-03	1.1E+00*	7.1E-04*
Phenanthrene	000085-01-8	...	...	...	...	...	...
Phenol	000108-95-2	...	...	...	...	2.2E+01*	...
Phenyl sulfide	000139-66-2	...	...	...	...	...	...
Phenylenediamine, m-**	000108-45-2	...	...	...	...	2.2E-01	...
Phenylmercuric acetate	000062-38-4	...	...	...	...	2.9E-03*	...
Phorate	000298-02-2	...	...	...	...	7.3E-03*	...
Phosgene	000075-44-5	...	...	...	...	...	...
Phosphamidon	013171-21-6	...	...	...	...	...	...
Phosphine	007803-51-2	...	3.1E-04*	...	...	1.1E-02*	...
Phosphonodithioic acid, phenyl-o-ethyl-o-(4-nitrophenyl)	002104-64-5	...	...	...	...	3.7E-04*	...
Phosphoric acid	007664-38-2	...	1.0E-02*	...	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Phosphorous (elemental)	007723-14-0	...	...	...	...	7.3E-04*	...
Phthalic anhydride	000085-44-9	...	1.3E-01*	...	...	7.3E+01*	...
Plutonium	007440-07-5	...	...	...	...	...	...
Polychlorinated triphenyl	012642-23-8	...	...	...	...	...	...
Potassium**	007440-09-7	...	...	...	...	...	...
Potassium silver cyanide	000506-61-6	...	...	...	...	7.3E+00*	...
Pronamide	023950-58-5	...	...	...	...	2.7E+00*	...
Pyrene	000129-00-0	...	...	...	...	1.1E+00*	...
Pyridine	000110-86-1	...	...	...	...	3.7E-02*	...
Quinoline	000091-22-5	...	...	...	...	...	7.1E-06*
Radium	007440-14-4	...	...	...	...	...	...
Radon	010043-92-2	...	...	...	...	...	...
Resorcinol	000108-46-3	...	...	...	...	...	...
Ronnel	000299-84-3	...	...	...	...	1.8E+00*	...
Safrole**	000094-59-7	...	...	...	...	...	...
Selenium	007782-49-2	...	...	...	5.0E-02	1.8E-01*	...
Selenourea	000630-10-4	...	...	...	...	1.8E-01*	...
Silver	007440-22-4	...	...	...	...	1.8E-01*	...

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Silver Cyanide	000506-64-9	...	...	...	...	3.7E+00*	...
Sodium	007440-23-5	...	...	...	...	...	...
Strontium	007440-24-6	...	...	...	...	2.2E+01*	...
Strychnine	000057-24-9	...	...	...	...	1.1E-02*	...
Styrene	000100-42-5	...	1.0E+00*	...	1.0E-01	7.3E+00*	...
Sulfuric acid	007664-93-9	...	...	...	...	...	...
TB, 2,4,5-	000093-80-1	...	...	...	...	...	...
TCDD	001746-01-6	...	...	5.0E-11*	3.0E-08	...	5.3E-10*
Tetrachlorobenzene, 1,2,4,5-	000095-94-3	...	...	...	...	1.1E-02*	...
Tetrachlorodibenzofuran, 2,3,7,8-	051207-31-9	...	...	5.3E-10*	...	...	5.3E-09*
Tetrachloroethane, 1,1,1,2-	000630-20-6	...	...	3.3E-04*	...	1.1E+00*	3.3E-03*
Tetrachloroethane, 1,1,2,2-	000079-34-5	...	...	4.2E-05*	...	...	4.3E-04*
Tetrachloroethylene	000127-18-4	...	...	... *	5.0E-03	3.7E-01*	1.6E-03*
Tetrachlorophenol, 2,3,4,6-	000058-90-2	...	...	...	...	1.1E+00*	...
Tetraethyl lead	000078-00-2	...	...	...	...	3.7E-06*	...
Tetraethyldithiopyrophosphate	003689-24-5	...	...	...	...	1.8E-02*	...
Tetrahydrofuran	000109-99-9	...	...	...	...	...	...
Thallium	007440-28-0	...	...	...	5.0E-04	...	...
Thiourea	000062-56-6	...	...	...	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Thiram	000137-26-8	...	...	...	...	1.8E-01*	...
Toluene	000108-88-3	...	4.2E-01*	...	1.0E+00	7.3E+00*	...
Toluene diisocyanate	000584-84-9	...	7.3E-05*	...	...	...	...
Toluenediamine, 2,4-**	000095-80-7	...	...	...	...	...	2.7E-05
Toluidine, o-**	000095-53-4	...	...	...	...	...	...
Toluidine, p-**	000106-49-0	...	...	...	...	...	4.5E-04
Toxaphene	008001-35-2	...	...	7.6E-06*	3.0E-03	...	7.7E-05*
TP, 2,4,5-	000093-72-1	...	...	...	5.0E-02	2.9E-01*	...
Tribromomethane	000075-25-2	...	...	2.2E-03*	1.0E-01*	7.3E-01*	1.1E-02*
Trichloro-1,2,2-Trifluoroethane, 1,1,2-	000076-13-1	...	3.1E+01*	...	...	1.1E+03*	...
Trichlorobenzene, 1,2,4-	000120-82-1	...	2.1E-01*	...	7.0E-02	3.7E-01*	...
Trichloroethane, 1,1,1-	000071-55-6	...	...	...	2.0E-01	...	...
Trichloroethane, 1,1,2-	000079-00-5	...	...	1.5E-04*	3.0E-03	1.5E-01*	1.5E-03*
Trichloroethylene	000079-01-6	...	...	... *	5.0E-03	...	7.7E-03*
Trichlorofluoromethane	000075-69-4	...	7.3E-01*	...	...	1.1E+01*	...
Trichlorophenol, 2,3,5-	000933-78-8	...	...	...	...	...	...
Trichlorophenol, 2,3,6-	000933-75-5	...	...	...	...	...	...
Trichlorophenol, 2,4,5-	000095-95-4	...	...	...	...	3.7E+00*	...
Trichlorophenol, 2,4,6-	000088-06-2	...	...	7.9E-04*	...	...	7.7E-03*

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Indicates new hazardous substance in current version of chemical data ([illegible]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	AIR PATHWAY NAAQS NESHAPS (ug/m^3)	AIR PATHWAY Reference Dose Screen Conc (mg/m^3)	AIR PATHWAY Cancer Risk Screen Conc (mg/m^3)	GROUND WATER PATHWAY MCL/MCLG (mg/L)	GROUND WATER PATHWAY Reference Dose Screen Conc (mg/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (mg/L)
Trichlorophenol, 3,4,5-	000609-19-8	...	...	...	...	...	...
Trichlorophenoxyacetic acid, 2,4,5-	000093-76-5	...	...	...	...	3.7E-01*	...
Trichloropropane, 1,2,3-	000096-18-4	...	...	...	...	2.2E-01*	1.2E-05*
Triethanolamine	000102-71-6	...	...	...	...	...	...
Trifluralin	001582-09-8	...	...	...	...	2.7E-01*	1.1E-02*
Trinitrobenzene, 1,3,5-	000099-35-4	...	...	...	...	1.8E-03*	...
Trinitrotoluene	000118-96-7	...	...	...	...	1.8E-02*	2.8E-03*
Tris (2,3-dibromopropyl) phosphate	000126-72-7	...	...	...	...	...	...
Vanadium	007440-62-2	...	...	...	...	2.6E-01*	...
Vanadium pentoxide	001314-62-1	...	...	...	...	3.3E-01*	...
Vinyl acetate	000108-05-4	...	2.1E-01*	...	...	3.7E+01*	...
Vinyl chloride	000075-01-4	...	...	2.8E-05*	2.0E-03	...	4.5E-05*
Warfarin	000081-81-2	...	...	...	...	1.1E-02*	...
Xylene, m-	000108-38-3	...	...	...	1.0E+01	7.3E+01*	...
Xylene, o-	000095-47-6	...	...	...	1.0E+01	7.3E+01*	...
Xylene, p-	000106-42-3	...	...	...	1.0E+01	...	...
Zinc	007440-66-6	...	...	...	...	1.1E+01*	...
Zinc cyanide	000557-21-1	...	...	...	...	1.8E+00*	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

		AIR PATHWAY			GROUND WATER PATHWAY		
Substance Name	CAS Number	NAAQS NESHAPS (ug/m^3)	Reference Dose Screen Conc (mg/m^3)	Cancer Risk Screen Conc (mg/m^3)	MCL/MCLG (mg/L)	Reference Dose Screen Conc (mg/L)	Cancer Risk Screen Conc (mg/L)
Zinc phosphide	001314-84-7	...	...	...	...	1.1E-02*	...
Zinc sulfate	007733-02-0	...	...	...	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Acenaphthene	000083-32-9	...	2.2E+00*	...	...	8.1E+01*	...	...	...
Acenaphthylene	000208-96-8	...	...	...	...	...	...	...	...
Acetaldehyde	000075-07-0	...	...	...	...	...	...	...	...
Acetone	000067-64-1	...	3.7E+00*	...	...	1.4E+02*	...	...	...
Acetonitrile	000075-05-8	...	2.2E-01*	...	...	8.1E+00*	...	...	...
Acetophenone	000098-86-2	...	3.7E+00*	...	...	1.4E+02*	...	...	...
Acetyl-2-thiourea, 1-	000591-08-2	...	...	...	...	...	...	...	...
Acrolein	000107-02-8	...	7.3E-01*	...	...	2.7E+01*	...	...	...
Acrylamide	000079-06-1	...	7.3E-03*	1.9E-05*	...	2.7E-01*	7.0E-04*	...	...
Acrylic acid	000079-10-7	...	1.8E+01*	...	...	6.8E+02*	...	...	...
Acrylonitrile	000107-13-1	...	3.7E-02*	1.6E-04*	...	1.4E+00*	5.8E-03*	...	...
Adipic acid	000124-04-9	...	...	...	...	...	...	...	...
Aldicarb	000116-06-3	...	3.7E-02*	...	...	1.4E+00*	...	...	...
Aldrin	000309-00-2	...	1.1E-03*	5.0E-06*	3.0E-01	4.1E-02*	1.9E-04*	3.0E+00	3.0E+00*
Allyl alcohol	000107-18-6	...	1.8E-01*	...	...	6.8E+00*	...	...	...
Allyl chloride**	000107-05-1	...	...	...	...	...	...	...	...
Aluminum	007429-90-5	...	...	...	...	...	...	...	...
Aluminum phosphide	020859-73-8	...	1.5E-02*	...	...	5.4E-01*	...	...	...
Ammonia	007664-41-7	...	3.5E+01*	...	...	1.3E+03*	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Ammonium picrate	000131-74-8	...	...	...	...	...	...	...	...
Ammonium sulfamate	007773-06-0	...	7.3E+00*	...	...	2.7E+02*	...	...	...
Aniline	000062-53-3	...	...	1.5E-02*	...	...	5.5E-01*	...	...
Anthracene	000120-12-7	...	1.1E+01*	...	...	4.1E+02*	...	...	...
Antimony	007440-36-0	6.0E-03	1.5E-02*	...	...	5.4E-01*	...	...	...
Arsenic	007440-38-2	5.0E-02	1.1E-02*	5.7E-05*	...	4.1E-01*	2.1E-03*	1.9E+02	1.9E+02*
Asbestos	001332-21-4	7.0E+00*	...	...	...	...	...	...	...
Atrazine	001912-24-9	3.0E-03	1.3E+00*	3.8E-04*	...	4.7E+01*	1.4E-02*	...	...
Azinphos- ethyl	002642-71-9	...	...	...	...	...	...	...	...
Azinphos- methyl	000086-50-0	...	...	...	...	...	...	1.0E-02*	1.0E-02*
Aziridine	000151-56-4	...	...	...	...	...	...	...	...
Barium	007440-39-3	2.0E+00	2.6E+00*	...	...	9.5E+01*	...	...	...
Barium cyanide	000542-62-1	...	... *	...	...	... *	...	...	...
Benz(a)anthracene	000056-55-3	...	...	1.2E-04*	...	...	4.3E-03*	...	...
Benzene	000071-43-2	5.0E-03	...	2.9E-03*	...	...	1.1E-01*	...	...
Benzene carbonyl chloride	000098-88-4	...	...	...	...	...	...	...	...
Benzidine	000092-87-5	...	1.1E-01*	3.7E-07*	...	4.1E+00*	1.4E-05*	...	...
Benzo(a)pyrene	000050-32-8	2.0E-04	...	1.2E-05*	...	...	4.3E-04*	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Benzo(b)fluoranthene	000205-99-2	...	...	1.2E-04*	...	...	4.3E-03*	...	...
Benzo(g,h,i)perylene	000191-24-2	...	...	...	...	...	...	...	...
Benzo(k)fluoranthene	000207-08-9	...	...	1.2E-03*	...	...	4.3E-02*	...	...
Benzoic acid	000065-85-0	...	1.5E+02*	...	...	5.4E+03*	...	...	...
Benzonitrile	000100-47-0	...	...	...	...	...	...	...	...
Benzothiazole, 1,2,-	000095-16-9	...	...	...	...	...	...	...	...
Benzyl alcohol**	000100-51-6	...	1.1E+01	...	...	4.1E+02	...	...	...
Benzyl chloride	000100-44-7	...	...	5.0E-04*	...	...	1.9E-02*	...	...
Beryllium	007440-41-7	4.0E-03	1.8E-01*	2.0E-05*	...	6.8E+00*	7.3E-04*	...	...
Biphenyl, 1,1-	000092-52-4	...	1.8E+00*	...	...	6.8E+01*	...	...	...
Bis (2-ethylhexyl) phthalate	000117-81-7	6.0E-03*	7.3E-01*	6.1E-03*	...	2.7E+01*	2.3E-01*	...	...
Bis(2-chloroethoxy)methane	000111-91-1	...	...	...	...	...	...	...	...
Bis(2-chloroethyl)ether	000111-44-4	...	...	7.7E-05*	...	...	2.9E-03*	...	...
Bis(2-chloroisopropyl)ether**	039638-32-9	...	1.5E+00	1.2E-03	...	5.4E+01	4.5E-02	...	...
Bis(chloromethyl)ether	000542-88-1	...	...	3.9E-07*	...	...	1.4E-05*	...	...
Boron	007440-42-8	...	3.3E+00*	...	...	1.2E+02*	...	...	...
Bromodichloromethane	000075-27-4	1.0E-01*	7.3E-01*	1.4E-03*	...	2.7E+01*	5.1E-02*	...	...
Bromomethane	000074-83-9	...	5.1E-02*	...	...	1.9E+00*	...	...	...
Bromophenyl-phenylether, 4-**	000101-55-3	...	...	...	...	...	...	...	...

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** Indicates new hazardous substance in current version of chemical data (JUN96).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Bromoxynil	001689-84-5	...	7.3E-01*	...	...	2.7E+01*	...	...	...
Butadiene, 1,3-	000106-99-0	...	...	...	...	...	...	...	...
Butanol	000071-36-3	...	3.7E+00*	...	...	1.4E+02*	...	...	...
Butylbenzyl phthalate	000085-68-7	...	7.3E+00*	...	...	2.7E+02*	...	...	...
Butyric acid, 4-(2,4-dichlorophenoxy)	000094-82-6	...	2.9E-01*	...	...	1.1E+01*	...	...	...
Cadmium	007440-43-9	5.0E-03	1.8E-02*	...	...	6.8E-01*	...	1.1E+00	1.1E+00*
Calcium**	007440-70-2	...	...	...	...	...	...	...	...
Captan	000133-06-2	...	4.7E+00*	2.4E-02*	...	1.8E+02*	9.0E-01*	...	...
Carbaryl	000063-25-2	...	3.7E+00*	...	...	1.4E+02*	...	...	...
Carbazole**	000086-74-8	...	...	4.3E-03	...	...	1.6E-01	...	...
Carbofuran	001563-66-2	4.0E-02	1.8E-01*	...	...	6.8E+00*	...	...	...
Carbon disulfide	000075-15-0	...	3.7E+00*	...	...	1.4E+02*	...	...	...
Carbon tetrachloride	000056-23-5	5.0E-03	2.6E-02*	6.6E-04*	...	9.5E-01*	2.4E-02*	...	...
Carbophenothion	000786-19-6	...	...	...	...	...	...	...	...
Cesium	007440-46-2	...	...	...	...	...	...	...	...
Chloral	000075-87-6	...	7.3E-02*	...	...	2.7E+00*	...	...	...
Chlordane	000057-74-9	2.0E-03	2.2E-03*	6.6E-05*	3.0E-01	8.1E-02*	2.4E-03*	4.3E-03	4.3E-03*
Chlordane, alpha-**	005103-71-9	...	...	...	...	...	...	...	...
Chlordane, gamma-**	005566-34-7	...	...	...	...	...	...	...	...

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Indicates new hazardous substance in current version of chemical data ([illegible]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Chlorine cyanide	000506-77-4	...	1.8E+00*	...	...	6.8E+01*	...	4.0E-03	4.0E-03
Chloro-3-methylphenol, 4-	000059-50-7	...	7.3E+01*	...	...	2.7E+03*	...	...	...
Chloroaniline, p-	000106-47-8	...	1.5E-01*	...	...	5.4E+00*	...	...	...
Chlorobenzene	000108-90-7	1.0E-01*	7.3E-01*	...	...	2.7E+01*	...	...	...
Chlorobenzilate**	000510-15-6	...	7.3E-01	3.2E-04	...	2.7E+01	1.2E-02	...	...
Chloroform	000067-66-3	1.0E-01*	3.7E-01*	1.4E-02*	...	1.4E+01*	5.2E-01*	...	...
Chloromethane	000074-87-3	...	...	6.6E-03*	...	...	2.4E-01*	...	...
Chloromethyl methyl ether	000107-30-2	...	...	...	...	...	...	...	...
Chloromethyloxirane, 2-	000106-89-8	...	7.3E-02*	8.6E-03*	...	2.7E+00*	3.2E-01*	...	...
Chloronaphthalene, 2-	000091-58-7	...	2.9E+00*	...	...	1.1E+02*	...	...	...
Chlorophenol, 2-	000095-57-8	...	1.8E-01*	...	...	6.8E+00*	...	...	...
Chlorophenyl-phenyl ether, 4-**	007005-72-3	...	...	...	...	...	...	...	...
Chloroprene**	000126-99-8	...	...	...	...	...	...	...	...
Chlorpyrifos	002921-88-2	...	1.1E-01*	...	...	4.1E+00*	...	4.1E-02	4.1E-02*
Chromium	007440-47-3	1.0E-01	1.8E-01*	...	...	6.8E+00*	...	1.1E+01*	1.1E+01*
Chromium(III)	016065-83-1	...	3.7E+01*	...	...	1.4E+03*	...	2.1E+02	2.1E+02
Chromium(VI)	018540-29-9	...	1.8E-01*	...	...	6.8E+00*	...	1.1E+01	1.1E+01*
Chrysene	000218-01-9	...	...	1.2E-02*	...	...	4.3E-01*	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Cobalt	007440-48-4	...	...	...	...	...	...	...	...
Copper	007440-50-8	1.3E+00	...	...	...	...	...	1.2E+01	1.2E+01*
Copper cyanide	000544-92-3	...	1.8E-01*	...	...	6.8E+00*	...	...	...
Coumaphos	000056-72-4	...	...	...	...	...	...	...	...
Creosote	008001-58-9	...	...	...	...	...	...	...	...
Cresol, m-	000108-39-4	...	1.8E+00*	...	...	6.8E+01*	...	...	...
Cresol, o-**	000095-48-7	...	1.8E+00	...	...	6.8E+01	...	...	...
Cresol, p-	000106-44-5	...	1.8E-01*	...	...	6.8E+00*	...	...	...
Cumene	000098-82-8	...	1.5E+00*	...	...	5.4E+01*	...	...	...
Cyanazine	021725-46-2	...	7.3E-02*	1.0E-04*	...	2.7E+00*	3.8E-03*	...	...
Cyanide	000057-12-5	2.0E-01	7.3E-01*	...	...	2.7E+01*	...	5.2E+00	5.2E+00*
Cyanogen	000460-19-5	...	1.5E+00*	...	...	5.4E+01*	...	...	...
Cyanogen bromide	000506-68-3	...	3.3E+00*	...	...	1.2E+02*	...	...	...
Cyclohexane	000110-82-7	...	...	...	...	...	...	...	...
Cyclohexanone	000108-94-1	...	1.8E+02*	...	...	6.8E+03*	...	...	...
Cyclotrimethylenetrinitriamine	000121-82-4	...	1.1E-01*	7.7E-04*	...	4.1E+00*	2.9E-02*	...	...
DDD	000072-54-8	...	...	3.6E-04*	5.0E+00	...	1.3E-02*	...	...
DDE	000072-55-9	...	...	2.5E-04*	5.0E+00	...	9.3E-03*	...	...
DDT	000050-29-3	...	1.8E-02*	2.5E-04*	5.0E+00	6.8E-01*	9.3E-03*	1.0E-03	1.0E-03

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
DEF	000078-48-8	...	1.1E-03*	...	...	4.1E-02*	...	...	...
Di-n-butyl phthalate	000084-74-2	...	3.7E+00*	...	...	1.4E+02*	...	...	...
Di-n-octyl phthalate	000117-84-0	...	7.3E-01*	...	...	2.7E+01*	...	...	...
Diallate**	002303-16-4	...	...	1.4E-03	...	...	5.2E-02	...	...
Diazinon	000333-41-5	...	3.3E-02*	...	...	1.2E+00*	...	...	...
Dibenz(a,h)anthracene	000053-70-3	...	...	1.2E-05*	...	...	4.3E-04*	...	...
Dibenzofuran	000132-64-9	...	...	...	...	...	...	...	...
Dibromo-3-chloropropane, 1,2-	000096-12-8	2.0E-04*	...	6.1E-05*	...	...	2.3E-03*	...	...
Dibromochloromethane	000124-48-1	6.0E-02*	7.3E-01*	1.0E-03*	...	2.7E+01*	3.8E-02*	...	...
Dibromoethane, 1,2-	000106-93-4	5.0E-05	...	1.0E-06*	...	...	3.7E-05*	...	...
Dicamba	001918-00-9	...	1.1E+00*	...	...	4.1E+01*	...	...	...
Dichlorobenzene, 1,2-	000095-50-1	6.0E-01	3.3E+00*	...	...	1.2E+02*	...	...	...
Dichlorobenzene, 1,3-	000541-73-1	6.0E-01	...	...	...	...	...	...	...
Dichlorobenzene, 1,4-	000106-46-7	7.5E-02	...	3.6E-03*	...	...	1.3E-01*	...	...
Dichlorobenzidine, 3,3-	000091-94-1	...	...	1.9E-04*	...	...	7.0E-03*	...	...
Dichlorodifluoromethane	000075-71-8	...	7.3E+00*	...	...	2.7E+02*	...	...	...
Dichloroethane, 1,1-	000075-34-3	...	3.7E+00*	...	...	1.4E+02*	...	...	...
Dichloroethane, 1,2-	000107-06-2	5.0E-03	...	9.4E-04*	...	...	3.5E-02*	...	...
Dichloroethylene, 1,1-	000075-35-4	7.0E-03	3.3E-01*	1.4E-04*	...	1.2E+01*	5.3E-03*	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

		DRINKING WATER			FOOD CHAIN			ENVIRONMENTAL	
								AWQC/AALAC	
Substance Name	CAS Number	MCL/MCLG (mg/L)	Reference Dose Screen Conc (mg/L)	Cancer Risk Screen Conc (mg/L)	FDAAL (ppm)	Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)	Freshwater (ug/L)	Saltwater (ug/L)
Dichloroethylene, cis-1,2-	000156-59-2	7.0E-02	3.7E-01*	...	...	1.4E+01*	...	...	...
Dichloroethylene, trans-1,2-	000156-60-5	1.0E-01	7.3E-01*	...	...	2.7E+01*	...	...	...
Dichlorophenol, 2,4-	000120-83-2	...	1.1E-01*	...	...	4.1E+00*	...	...	...
Dichlorophenoxyacetic acid, 2,4-	000094-75-7	7.0E-02	3.7E-01*	...	...	1.4E+01*	...	...	...
Dichloropropane, 1,2-	000078-87-5	5.0E-03	...	1.3E-03*	...	...	4.6E-02*	...	...
Dichloropropene, 1,3-	000542-75-6	...	1.1E-02*	4.7E-04*	...	4.1E-01*	1.8E-02*	...	...
Dichloropropene, cis-1,3-**	010061-01-5	...	...	...	...	...	...	...	...
Dichloropropene, trans-1,3-**	010061-02-6	...	...	...	...	...	...	...	...
Dichlorvos	000062-73-7	...	1.8E-02*	2.9E-04*	...	6.8E-01*	1.1E-02*	...	...
Dicofol	000115-32-2	...	...	...	...	...	...	...	...
Dieldrin	000060-57-1	...	1.8E-03*	5.3E-06*	3.0E-01	6.8E-02*	2.0E-04*	1.9E-03	1.9E-03
Diethyl phthalate	000084-66-2	...	2.9E+01*	...	...	1.1E+03*	...	... *	... *
Diethylene glycol	000111-46-6	...	...	...	...	...	...	...	...
Diethylstibestrol**	000056-53-1	...	...	1.8E-08	...	...	6.7E-07	...	...
Diisopropylmethyl-phosphonate	001445-75-6	...	2.9E+00*	...	...	1.1E+02*	...	...	...
Dimethoate	000060-51-5	...	7.3E-03*	...	...	2.7E-01*	...	...	...
Dimethoxybenzidine, 3,3-	000119-90-4	...	...	6.1E-03*	...	...	2.3E-01*	...	...
Dimethyl phenol, 2,4-	000105-67-9	...	7.3E-01*	...	...	2.7E+01*	...	...	...

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Dimethyl phthalate	000131-11-3	...	... *	...	...	... *	...	...	...
Dimethyl sulfate	000077-78-1	...	...	...	...	...	...	...	...
Dimethylbenz(a)anthracene, 7,12-**	000057-97-6	...	...	...	...	...	...	...	...
Dimethylbenzidine, 3,3'-**	000119-93-7	...	...	9.3E-06	...	...	3.4E-04	...	...
Dinitro-2-methylphenol, 4,6-**	000534-52-1	...	...	...	...	...	...	...	...
Dinitrobenzene, 1,3-	000099-65-0	...	3.7E-03*	...	...	1.4E-01*	...	...	...
Dinitrophenol, 2,4-	000051-28-5	...	7.3E-02*	...	...	2.7E+00*	...	...	...
Dinitrotoluene, 2,4-	000121-14-2	...	7.3E-02*	1.3E-04*	...	2.7E+00*	4.6E-03*	...	...
Dinitrotoluene, 2,6-	000606-20-2	...	3.7E-02*	1.3E-04*	...	1.4E+00*	4.6E-03*	...	...
Dinoseb	000088-85-7	7.0E-03	3.7E-02*	...	...	1.4E+00*	...	...	...
Dioxane, 1,4-	000123-91-1	...	...	7.7E-03*	...	...	2.9E-01*	...	...
Dioxathion	000078-34-2	...	...	...	...	...	...	...	...
Diphenylamine**	000122-39-4	...	9.1E-01	...	...	3.4E+01	...	...	...
Diphenylhydrazine, 1,2-	000122-66-7	...	...	1.1E-04*	...	...	3.9E-03*	...	...
Diquat	000085-00-7	2.0E-02	8.0E-02*	...	...	3.0E+00*	...	...	...
Disulfoton	000298-04-4	...	1.5E-03*	...	...	5.4E-02*	...	...	...
Diuron	000330-54-1	...	7.3E-02*	...	...	2.7E+00*	...	...	...
Endosulfan (I or II)	000115-29-7	...	2.2E-01*	...	...	8.1E+00*	...	5.6E-02	5.6E-02*
Endosulfan sulfate	001031-07-8	...	...	...	...	...	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Endothall	000145-73-3	1.0E-01	7.3E-01*	...	...	2.7E+01*	...	...	...
Endrin	000072-20-8	2.0E-03	1.1E-02*	...	... *	4.1E-01*	...	2.3E-03	2.3E-03
Endrin aldehyde	007421-93-4	...	...	...	...	...	...	... *	... *
Endrin ketone**	053494-70-5	...	...	...	...	...	...	...	...
Ethion	000563-12-2	...	1.8E-02*	...	...	6.8E-01*	...	...	...
Ethyl acetate	000141-78-6	...	3.3E+01*	...	...	1.2E+03*	...	...	...
Ethyl benzene	000100-41-4	7.0E-01	3.7E+00*	...	...	1.4E+02*	...	...	...
Ethyl chloride	000075-00-3	...	...	...	...	...	...	...	...
Ethyl ether	000060-29-7	...	7.3E+00*	...	...	2.7E+02*	...	...	...
Ethyl methacrylate**	000097-63-2	...	3.3E+00	...	...	1.2E+02	...	...	...
Ethyl methanesulfonate**	000062-50-0	...	...	...	...	...	...	...	...
Ethyldipropylthiocarbamate, s-	000759-94-4	...	9.1E-01*	...	...	3.4E+01*	...	...	...
Ethylene glycol	000107-21-1	...	7.3E+01*	...	...	2.7E+03*	...	...	...
Ethylene glycol monoethyl ether	000110-80-5	...	1.5E+01*	...	...	5.4E+02*	...	...	...
Ethylene thiourea**	000096-45-7	...	2.9E-03	7.7E-04	...	1.1E-01	2.9E-02	...	...
Fenthion	000055-38-9	...	...	...	...	...	...	...	...
Ferrous sulfate	007720-78-7	...	...	...	...	...	...	...	...
Fluoranthene	000206-44-0	...	1.5E+00*	...	...	5.4E+01*	...	...	...
Fluorene	000086-73-7	...	1.5E+00*	...	...	5.4E+01*	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Fluorine	007782-41-4	...	2.2E+00*	...	...	8.1E+01*	...	...	...
Formaldehyde	000050-00-0	...	7.3E+00*	...	...	2.7E+02*	...	...	...
Formic acid	000064-18-6	...	7.3E+01*	...	...	2.7E+03*	...	...	...
Furan	000110-00-9	...	3.7E-02*	...	...	1.4E+00*	...	...	...
Furfural	000098-01-1	...	1.1E-01*	...	...	4.1E+00*	...	...	...
Glycidylaldehyde	000765-34-4	...	1.5E-02*	...	...	5.4E-01*	...	...	...
Heptachlor	000076-44-8	4.0E-04	1.8E-02*	1.9E-05*	3.0E-01	6.8E-01*	7.0E-04*	3.8E-03	3.8E-03*
Heptachlor epoxide	001024-57-3	2.0E-04	4.7E-04*	9.4E-06*	3.0E-01	1.8E-02*	3.5E-04*	3.8E-03*	3.8E-03*
Heptachlorinated dibenzo-p-dioxin, 1,2,3,4	035822-46-9	...	...	5.3E-08*	...	...	2.0E-06*	...	...
Heptachlorinated dibenzofuran, 1,2,3,4,6,7	067562-39-4	...	...	5.3E-08*	...	...	2.0E-06*	...	...
Heptachlorinated dibenzofuran, 1,2,3,4,6,7	055673-89-7	...	...	... *	...	...	... *	...	...
Hexabromobenzene	000087-82-1	...	7.3E-02*	...	...	2.7E+00*	...	...	...
Hexachlorinated dibenzo-p-dioxin, 1,2,3,4,	039227-28-6	...	...	5.3E-09*	...	...	2.0E-07*	...	...
Hexachlorinated dibenzo-p-dioxin, 1,2,3,6,	057653-85-7	...	...	1.4E-08*	...	...	5.1E-07*	...	...
Hexachlorinated dibenzo-p-dioxin, 1,2,3,7,	019408-74-3	...	...	1.4E-08*	...	...	5.1E-07*	...	...
Hexachlorinated dibenzofuran, 1,2,3,4,7,8-	070648-26-9	...	...	5.3E-09*	...	...	2.0E-07*	...	...
Hexachlorinated dibenzofuran, 1,2,3,6,7,8-	057117-44-9	...	...	5.3E-09*	...	...	2.0E-07*	...	...
Hexachlorinated dibenzofuran, 1,2,3,7,8,9-	072918-21-9	...	...	5.3E-09*	...	...	2.0E-07*	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Hexachlorinated dibenzofuran, 2,3,4,6,7,8-	060851-34-5	...	...	5.3E-09*	...	...	2.0E-07*	...	...
Hexachlorobenzene	000118-74-1	1.0E-03	2.9E-02*	5.3E-05*	...	1.1E+00*	2.0E-03*	...	...
Hexachlorobutadiene	000087-68-3	...	7.3E-03*	1.1E-03*	...	2.7E-01*	4.0E-02*	...	...
Hexachlorocyclohexane, alpha-	000319-84-6	...	...	1.4E-05*	...	...	5.0E-04*	...	...
Hexachlorocyclohexane, beta-	000319-85-7	...	...	4.7E-05*	...	...	1.8E-03*	...	...
Hexachlorocyclohexane, delta-	000319-86-8	...	...	...	...	...	...	...	...
Hexachlorocyclopentadiene	000077-47-4	5.0E-02	2.6E-01*	...	...	9.5E+00*	...	...	...
Hexachloroethane	000067-72-1	...	3.7E-02*	6.1E-03*	...	1.4E+00*	2.3E-01*	...	...
Hexachlorophene	000070-30-4	...	1.1E-02*	...	...	4.1E-01*	...	...	...
Hexane	000110-54-3	...	2.2E+00*	...	...	8.1E+01*	...	...	...
Hexanone, 2-**	000591-78-6	...	...	...	...	...	...	...	...
Hydrazine	000302-01-2	...	...	2.8E-05*	...	...	1.1E-03*	...	...
Hydrochloric acid	007647-01-0	...	...	...	...	...	...	...	...
Hydrogen cyanide	000074-90-8	...	7.3E-01*	...	...	2.7E+01*	...	...	...
Hydrogen sulfide	007783-06-4	...	1.1E-01*	...	...	4.1E+00*	...	2.0E+00	2.0E+00
Indeno(1,2,3-cd)pyrene	000193-39-5	...	...	1.2E-04*	...	...	4.3E-03*	...	...
Ioxynil	001689-83-4	...	...	...	...	...	...	...	...
Iron	007439-89-6	...	...	...	...	...	...	1.0E+03	1.0E+03
Isobutanol	000078-83-1	...	1.1E+01*	...	...	4.1E+02*	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Isophorone	000078-59-1	...	7.3E+00*	9.0E-02*	...	2.7E+02*	3.3E+00*	...	...
Kepone	000143-50-0	...	...	...	3.0E-01	...	...	...	...
Lead	007439-92-1	1.5E-02	...	...	...	...	...	3.2E+00	3.2E+00*
Lindane	000058-89-9	2.0E-04	1.1E-02*	6.6E-05*	...	4.1E-01*	2.4E-03*	8.0E-02	8.0E-02
Magnesium	007439-95-4	...	...	...	...	...	...	...	...
Malathion	000121-75-5	...	7.3E-01*	...	...	2.7E+01*	...	1.0E-01	1.0E-01
Maleic anhydride	000108-31-6	...	3.7E+00*	...	...	1.4E+02*	...	...	...
Maleic hydrazide	000123-33-1	...	1.8E+01*	...	...	6.8E+02*	...	...	...
Manganese	007439-96-5	...	5.1E+00*	...	...	1.9E+02*	...	...	...
Mercury	007439-97-6	2.0E-03	1.1E-02*	...	1.0E+00	4.1E-01*	...	1.2E-02	1.2E-02*
Methacrylonitrile	000126-98-7	...	3.7E-03*	...	...	1.4E-01*	...	...	...
Methanol	000067-56-1	...	1.8E+01*	...	...	6.8E+02*	...	...	...
Methomyl	016752-77-5	...	9.1E-01*	...	...	3.4E+01*	...	...	...
Methoxychlor	000072-43-5	4.0E-02	1.8E-01*	...	...	6.8E+00*	...	3.0E-02	3.0E-02
Methyl chlorocarbonate	000079-22-1	...	...	...	...	...	...	...	...
Methyl ethyl ketone	000078-93-3	...	2.2E+01*	...	...	8.1E+02*	...	...	...
Methyl isobutyl ketone	000108-10-1	...	2.9E+00*	...	...	1.1E+02*	...	...	...
Methyl methacrylate	000080-62-6	...	2.9E+00*	...	...	1.1E+02*	...	...	...
Methylcholanthrene, 3-**	000056-49-5	...	...	...	...	...	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Methylene bis (2-chloroaniline), 4,4-	000101-14-4	...	2.6E-02*	6.6E-04*	...	9.5E-01*	2.4E-02*	...	...
Methylene bromide**	000074-95-3	...	...	...	...	...	...	...	...
Methylene chloride	000075-09-2	5.0E-03	2.2E+00*	1.1E-02*	...	8.1E+01*	4.2E-01*	...	...
Methylenediphenyl diisocyanate, 4,4-	000101-68-8	...	...	...	...	...	...	...	...
Methylnaphthalene, 2-	000091-57-6	...	...	...	...	...	...	...	...
Metribuzin	021087-64-9	...	9.1E-01*	...	...	3.4E+01*	...	...	...
Mirex	002385-85-5	...	7.3E-03*	... *	1.0E-01	2.7E-01*	... *	1.0E-03	1.0E-03
Molybdenum**	007439-98-7	...	1.8E-01	...	...	6.8E+00	...	...	...
N-nitroso-di-n-propylamine**	000621-64-7	...	...	1.2E-05	...	...	4.5E-04	...	...
N-nitrosopiperidine**	000100-75-4	...	...	...	...	...	...	...	...
Naphthalene	000091-20-3	...	1.5E+00*	...	...	5.4E+01*	...	...	...
Naphthylamine**	000091-59-8	...	...	...	...	...	...	...	...
Nickel	007440-02-0	... *	7.3E-01*	...	...	2.7E+01*	...	1.6E+02	1.6E+02*
Nitric acid	007697-37-2	...	...	...	...	...	...	...	...
Nitric oxide	010102-43-9	...	... *	...	...	... *	...	...	...
Nitroaniline, 2-**	000088-74-4	...	...	...	...	...	...	...	...
Nitroaniline, 3-**	000099-09-2	...	...	...	...	...	...	...	...
Nitroaniline, p-	000100-01-6	...	...	...	...	...	...	...	...

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Nitrobenzene	000098-95-3	...	1.8E-02*	...	...	6.8E-01*	...	...	...
Nitrogen dioxide	010102-44-0	...	... *	...	...	... *	...	...	...
Nitroglycerine	000055-63-0	...	...	...	...	...	...	...	...
Nitrophenol, 2-**	000088-75-5	...	...	...	...	...	...	...	...
Nitrophenol, 4-	000100-02-7	...	...	...	...	...	...	...	...
Nitropropane, 2-**	000079-46-9	...	...	...	...	...	...	...	...
Nitroso-di-n-butylamine, N-	000924-16-3	...	...	1.6E-05*	...	...	5.8E-04*	...	...
Nitroso-di-n-methylurethane, N-	000615-53-2	...	...	...	...	...	...	...	...
Nitrosodiethanolamine, N-	001116-54-7	...	...	3.0E-05*	...	...	1.1E-03*	...	...
Nitrosodiethylamine, N-	000055-18-5	...	...	5.7E-07*	...	...	2.1E-05*	...	...
Nitrosodimethylamine, N-	000062-75-9	...	...	1.7E-06*	...	...	6.2E-05*	...	...
Nitrosodiphenylamine, N-	000086-30-6	...	...	1.7E-02*	...	...	6.4E-01*	...	...
Nitrosomethylethylamine**	010595-95-6	...	...	3.9E-06	...	...	1.4E-04	...	...
Nitrosopyrrolidine, N-	000930-55-2	...	...	4.1E-05*	...	...	1.5E-03*	...	...
Nitrotoluene, 4-	000099-99-0	...	3.7E-01*	...	...	1.4E+01*	...	...	...
Octamethylpyrophosphoramide**	000152-16-9	...	7.3E-02	...	...	2.7E+00	...	...	...
Oxybis (1-chloropropane), 2,3'-**	000108-60-1	...	...	...	...	...	...	...	...
Parathion, ethyl-	000056-38-2	...	2.2E-01*	...	...	8.1E+00*	...	1.3E-02*	1.3E-02*
Parathion, methyl-	000298-00-0	...	9.1E-03*	...	...	3.4E-01*	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

		DRINKING WATER			FOOD CHAIN			ENVIRONMENTAL	
								AWQC/AALAC	
Substance Name	CAS Number	MCL/MCLG (mg/L)	Reference Dose Screen Conc (mg/L)	Cancer Risk Screen Conc (mg/L)	FDAAL (ppm)	Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)	Freshwater (ug/L)	Saltwater (ug/L)
PCBs	001336-36-3	5.0E-04	7.3E-04*	1.1E-05*	...	2.7E-02*	4.1E-04*	1.4E-02	1.4E-02*
Pentachlorinated dibenzo-p-dioxin, 1,2,3,7	040321-76-4	...	...	1.1E-09*	...	...	3.9E-08*	...	...
Pentachlorinated dibenzofuran, 1,2,3,7,8-	109719-77-9	...	...	1.1E-08*	...	...	3.9E-07*	...	...
Pentachlorinated dibenzofuran, 2,3,4,7,8-	057117-41-6	...	...	1.1E-09*	...	...	3.9E-08*	...	...
Pentachlorobenzene	000608-93-5	...	2.9E-02*	...	...	1.1E+00*	...	...	...
Pentachloroethane	000076-01-7	...	...	...	...	...	...	...	...
Pentachloronitrobenzene	000082-68-8	...	1.1E-01*	3.3E-04*	...	4.1E+00*	1.2E-02*	...	...
Pentachlorophenol	000087-86-5	1.0E-03	1.1E+00*	7.1E-04*	...	4.1E+01*	2.6E-02*	1.3E+01	1.3E+01
Phenanthrene	000085-01-8	...	...	...	...	...	...	...	...
Phenol	000108-95-2	...	2.2E+01*	...	...	8.1E+02*	...	...	...
Phenyl sulfide	000139-66-2	...	...	...	...	...	...	...	...
Phenylenediamine, m-**	000108-45-2	...	2.2E-01	...	...	8.1E+00	...	...	...
Phenylmercuric acetate	000062-38-4	...	2.9E-03*	...	...	1.1E-01*	...	...	...
Phorate	000298-02-2	...	7.3E-03*	...	...	2.7E-01*	...	...	...
Phosgene	000075-44-5	...	...	...	...	...	...	...	...
Phosphamidon	013171-21-6	...	...	...	...	...	...	...	...
Phosphine	007803-51-2	...	1.1E-02*	...	...	4.1E-01*	...	...	...
Phosphonodithioic acid, phenyl-o-ethyl-o-(	002104-64-5	...	3.7E-04*	...	...	1.4E-02*	...	1.0E-01*	1.0E-01*
Phosphoric acid	007664-38-2	...	...	...	...	...	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

		DRINKING WATER			FOOD CHAIN			ENVIRONMENTAL	
								AWQC/AALAC	
Substance Name	CAS Number	MCL/MCLG (mg/L)	Reference Dose Screen Conc (mg/L)	Cancer Risk Screen Conc (mg/L)	FDAAL (ppm)	Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)	Freshwater (ug/L)	Saltwater (ug/L)
Phosphorous (elemental)	007723-14-0	...	7.3E-04*	...	...	2.7E-02*	...	1.0E-01	1.0E-01
Phthalic anhydride	000085-44-9	...	7.3E+01*	...	...	2.7E+03*	...	...	...
Plutonium	007440-07-5	...	...	...	...	...	...	...	...
Polychlorinated triphenyl	012642-23-8	...	...	...	...	...	...	...	...
Potassium**	007440-09-7	...	...	...	...	...	...	...	...
Potassium silver cyanide	000506-61-6	...	7.3E+00*	...	...	2.7E+02*	...	...	...
Pronamide	023950-58-5	...	2.7E+00*	...	...	1.0E+02*	...	...	...
Pyrene	000129-00-0	...	1.1E+00*	...	...	4.1E+01*	...	...	...
Pyridine	000110-86-1	...	3.7E-02*	...	...	1.4E+00*	...	...	...
Quinoline	000091-22-5	...	...	7.1E-06*	...	...	2.6E-04*	...	...
Radium	007440-14-4	...	...	...	...	...	...	...	...
Radon	010043-92-2	...	...	...	...	...	...	...	...
Resorcinol	000108-46-3	...	...	...	...	...	...	...	...
Ronnel	000299-84-3	...	1.8E+00*	...	...	6.8E+01*	...	...	...
Safrole**	000094-59-7	...	...	...	...	...	...	...	...
Selenium	007782-49-2	5.0E-02	1.8E-01*	...	...	6.8E+00*	...	5.0E+00*	5.0E+00*
Selenourea	000630-10-4	...	1.8E-01*	...	...	6.8E+00*	...	...	...
Silver	007440-22-4	...	1.8E-01*	...	...	6.8E+00*	...	4.1E+00*	4.1E+00*

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Silver Cyanide	000506-64-9	...	3.7E+00*	...	...	1.4E+02*	...	...	...
Sodium	007440-23-5	...	...	...	...	...	...	...	...
Strontium	007440-24-6	...	2.2E+01*	...	...	8.1E+02*	...	...	...
Strychnine	000057-24-9	...	1.1E-02*	...	...	4.1E-01*	...	...	...
Styrene	000100-42-5	1.0E-01	7.3E+00*	...	...	2.7E+02*	...	...	...
Sulfuric acid	007664-93-9	...	...	...	...	...	...	...	...
TB, 2,4,5-	000093-80-1	...	...	...	...	...	...	...	...
TCDD	001746-01-6	3.0E-08	...	5.3E-10*	...	...	2.0E-08*	...	...
Tetrachlorobenzene, 1,2,4,5-	000095-94-3	...	1.1E-02*	...	...	4.1E-01*	...	...	...
Tetrachlorodibenzofuran, 2,3,7,8-	051207-31-9	...	...	5.3E-09*	...	...	2.0E-07*	...	...
Tetrachloroethane, 1,1,1,2-	000630-20-6	...	1.1E+00*	3.3E-03*	...	4.1E+01*	1.2E-01*	...	...
Tetrachloroethane, 1,1,2,2-	000079-34-5	...	...	4.3E-04*	...	...	1.6E-02*	...	...
Tetrachloroethylene	000127-18-4	5.0E-03	3.7E-01*	1.6E-03*	...	1.4E+01*	6.1E-02*	...	...
Tetrachlorophenol, 2,3,4,6-	000058-90-2	...	1.1E+00*	...	...	4.1E+01*	...	...	...
Tetraethyl lead	000078-00-2	...	3.7E-06*	...	...	1.4E-04*	...	...	...
Tetraethyldithiopyrophosphate	003689-24-5	...	1.8E-02*	...	...	6.8E-01*	...	...	...
Tetrahydrofuran	000109-99-9	...	...	...	...	...	...	...	...
Thallium	007440-28-0	5.0E-04	...	...	...	...	...	...	...
Thiourea	000062-56-6	...	...	...	...	...	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

		DRINKING WATER			FOOD CHAIN			ENVIRONMENTAL	
								AWQC/AALAC	
Substance Name	CAS Number	MCL/MCLG (mg/L)	Reference Dose Screen Conc (mg/L)	Cancer Risk Screen Conc (mg/L)	FDAAL (ppm)	Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)	Freshwater (ug/L)	Saltwater (ug/L)
Thiram	000137-26-8	...	1.8E-01*	...	...	6.8E+00*	...	...	...
Toluene	000108-88-3	1.0E+00	7.3E+00*	...	...	2.7E+02*	...	...	...
Toluene diisocyanate	000584-84-9	...	...	...	...	...	...	...	...
Toluenediamine, 2,4-**	000095-80-7	...	...	2.7E-05	...	...	9.8E-04	...	...
Toluidine, o-**	000095-53-4	...	...	...	...	...	...	...	...
Toluidine, p-**	000106-49-0	...	...	4.5E-04	...	...	1.7E-02	...	...
Toxaphene	008001-35-2	3.0E-03	...	7.7E-05*	... *	...	2.9E-03*	2.0E-04*	2.0E-04
TP, 2,4,5-	000093-72-1	5.0E-02	2.9E-01*	...	...	1.1E+01*	...	...	...
Tribromomethane	000075-25-2	1.0E-01*	7.3E-01*	1.1E-02*	...	2.7E+01*	4.0E-01*	...	...
Trichloro-1,2,2-Trifluoroethane, 1,1,2-	000076-13-1	...	1.1E+03*	...	...	4.1E+04*	...	...	...
Trichlorobenzene, 1,2,4-	000120-82-1	7.0E-02	3.7E-01*	...	...	1.4E+01*	...	...	...
Trichloroethane, 1,1,1-	000071-55-6	2.0E-01	...	...	...	...	...	...	...
Trichloroethane, 1,1,2-	000079-00-5	3.0E-03	1.5E-01*	1.5E-03*	...	5.4E+00*	5.5E-02*	...	...
Trichloroethylene	000079-01-6	5.0E-03	...	7.7E-03*	...	...	2.9E-01*	...	...
Trichlorofluoromethane	000075-69-4	...	1.1E+01*	...	...	4.1E+02*	...	...	...
Trichlorophenol, 2,3,5-	000933-78-8	...	...	...	...	...	...	...	...
Trichlorophenol, 2,3,6-	000933-75-5	...	...	...	...	...	...	...	...
Trichlorophenol, 2,4,5-	000095-95-4	...	3.7E+00*	...	...	1.4E+02*	...	...	...
Trichlorophenol, 2,4,6-	000088-06-2	...	...	7.7E-03*	...	...	2.9E-01*	...	...

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** Indicates new hazardous substance in current version of chemical data (JUN96).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	DRINKING WATER MCL/MCLG (mg/L)	DRINKING WATER Reference Dose Screen Conc (mg/L)	DRINKING WATER Cancer Risk Screen Conc (mg/L)	FOOD CHAIN FDAAL (ppm)	FOOD CHAIN Reference Dose Screen Conc (mg/kg)	FOOD CHAIN Cancer Risk Screen Conc (mg/kg)	ENVIRONMENTAL AWQC/AALAC Freshwater (ug/L)	ENVIRONMENTAL AWQC/AALAC Saltwater (ug/L)
Trichlorophenol, 3,4,5-	000609-19-8	...	...	...	...	...	...	...	...
Trichlorophenoxyacetic acid, 2,4,5-	000093-76-5	...	3.7E-01*	...	...	1.4E+01*	...	...	...
Trichloropropane, 1,2,3-	000096-18-4	...	2.2E-01*	1.2E-05*	...	8.1E+00*	4.5E-04*	...	...
Triethanolamine	000102-71-6	...	...	...	...	...	...	...	...
Trifluralin	001582-09-8	...	2.7E-01*	1.1E-02*	...	1.0E+01*	4.1E-01*	...	...
Trinitrobenzene, 1,3,5-	000099-35-4	...	1.8E-03*	...	...	6.8E-02*	...	...	...
Trinitrotoluene	000118-96-7	...	1.8E-02*	2.8E-03*	...	6.8E-01*	1.1E-01*	...	...
Tris (2,3-dibromopropyl) phosphate	000126-72-7	...	...	...	...	...	...	...	...
Vanadium	007440-62-2	...	2.6E-01*	...	...	9.5E+00*	...	...	...
Vanadium pentoxide	001314-62-1	...	3.3E-01*	...	...	1.2E+01*	...	...	...
Vinyl acetate	000108-05-4	...	3.7E+01*	...	...	1.4E+03*	...	...	...
Vinyl chloride	000075-01-4	2.0E-03	...	4.5E-05*	...	...	1.7E-03*	...	...
Warfarin	000081-81-2	...	1.1E-02*	...	...	4.1E-01*	...	...	...
Xylene, m-	000108-38-3	1.0E+01	7.3E+01*	...	...	2.7E+03*	...	...	...
Xylene, o-	000095-47-6	1.0E+01	7.3E+01*	...	...	2.7E+03*	...	...	...
Xylene, p-	000106-42-3	1.0E+01	...	...	...	...	...	...	...
Zinc	007440-66-6	...	1.1E+01*	...	...	4.1E+02*	...	1.1E+02	1.1E+02*
Zinc cyanide	000557-21-1	...	1.8E+00*	...	...	6.8E+01*	...	...	...

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

		DRINKING WATER			FOOD CHAIN			ENVIRONMENTAL	
								AWQC/AALAC	
Substance Name	CAS Number	MCL/MCLG (mg/L)	Reference Dose Screen Conc (mg/L)	Cancer Risk Screen Conc (mg/L)	FDAAL (ppm)	Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)	Freshwater (ug/L)	Saltwater (ug/L)
Zinc phosphide	001314-84-7	...	1.1E-02*	...	...	4.1E-01*	...	...	...
Zinc sulfate	007733-02-0	...	...	...	...	...	...	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)
Acenaphthene	000083-32-9	4.7E+03*	...
Acenaphthylene	000208-96-8	...	...
Acetaldehyde	000075-07-0	...	...
Acetone	000067-64-1	7.8E+03*	...
Acetonitrile	000075-05-8	4.7E+02*	...
Acetophenone	000098-86-2	7.8E+03*	...
Acetyl-2-thiourea, 1-	000591-08-2	...	...
Acrolein	000107-02-8	1.6E+03*	...
Acrylamide	000079-06-1	1.6E+01*	1.4E-01*
Acrylic acid	000079-10-7	3.9E+04*	...
Acrylonitrile	000107-13-1	7.8E+01*	1.2E+00*
Adipic acid	000124-04-9	...	...
Aldicarb	000116-06-3	7.8E+01*	...
Aldrin	000309-00-2	2.3E+00*	3.8E-02*
Allyl alcohol	000107-18-6	3.9E+02*	...
Allyl chloride**	000107-05-1	...	...
Aluminum	007429-90-5	...	...
Aluminum phosphide	020859-73-8	3.1E+01*	...
Ammonia	007664-41-7	7.6E+04*	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Ammonium picrate	000131-74-8	...	...
Ammonium sulfamate	007773-06-0	1.6E+04*	...
Aniline	000062-53-3	...	1.1E+02*
Anthracene	000120-12-7	2.3E+04*	...
Antimony	007440-36-0	3.1E+01*	...
Arsenic	007440-38-2	2.3E+01*	4.3E-01*
Asbestos	001332-21-4	...	...
Atrazine	001912-24-9	2.7E+03*	2.9E+00*
Azinphos- ethyl	002642-71-9	...	...
Azinphos- methyl	000086-50-0	...	...
Aziridine	000151-56-4	...	...
Barium	007440-39-3	5.5E+03*	...
Barium cyanide	000542-62-1	... *	...
Benz(a)anthracene	000056-55-3	...	8.8E-01*
Benzene	000071-43-2	...	2.2E+01*
Benzene carbonyl chloride	000098-88-4	...	...
Benzidine	000092-87-5	2.3E+02*	2.8E-03*
Benzo(a)pyrene	000050-32-8	...	8.8E-02*

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Benzo(b)fluoranthene	000205-99-2	...	8.8E-01*
Benzo(g,h,i)perylene	000191-24-2	...	...
Benzo(k)fluoranthene	000207-08-9	...	8.8E+00*
Benzoic acid	000065-85-0	3.1E+05*	...
Benzonitrile	000100-47-0	...	...
Benzothiazole, 1,2,-	000095-16-9	...	...
Benzyl alcohol**	000100-51-6	2.3E+04	...
Benzyl chloride	000100-44-7	...	3.8E+00*
Beryllium	007440-41-7	3.9E+02*	1.5E-01*
Biphenyl, 1,1-	000092-52-4	3.9E+03*	...
Bis (2-ethylhexyl) phthalate	000117-81-7	1.6E+03*	4.6E+01*
Bis(2-chloroethoxy)methane	000111-91-1	...	...
Bis(2-chloroethyl)ether	000111-44-4	...	5.8E-01*
Bis(2-chloroisopropyl)ether**	039638-32-9	3.1E+03	9.1E+00
Bis(chloromethyl)ether	000542-88-1	...	2.9E-03*
Boron	007440-42-8	7.0E+03*	...
Bromodichloromethane	000075-27-4	1.6E+03*	1.0E+01*
Bromomethane	000074-83-9	1.1E+02*	...
Bromophenyl-phenylether, 4-**	000101-55-3	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)
Bromoxynil	001689-84-5	1.6E+03*	...
Butadiene, 1,3-	000106-99-0	...	...
Butanol	000071-36-3	7.8E+03*	...
Butylbenzyl phthalate	000085-68-7	1.6E+04*	...
Butyric acid, 4-(2,4-dichlorophenoxy)	000094-82-6	6.3E+02*	...
Cadmium	007440-43-9	3.9E+01*	...
Calcium**	007440-70-2	...	...
Captan	000133-06-2	1.0E+04*	1.8E+02*
Carbaryl	000063-25-2	7.8E+03*	...
Carbazole**	000086-74-8	...	3.2E+01
Carbofuran	001563-66-2	3.9E+02*	...
Carbon disulfide	000075-15-0	7.8E+03*	...
Carbon tetrachloride	000056-23-5	5.5E+01*	4.9E+00*
Carbophenothion	000786-19-6	...	...
Cesium	007440-46-2	...	...
Chloral	000075-87-6	1.6E+02*	...
Chlordane	000057-74-9	4.7E+00*	4.9E-01*
Chlordane, alpha-**	005103-71-9	...	...
Chlordane, gamma-**	005566-34-7	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Chlorine cyanide	000506-77-4	3.9E+03*	...
Chloro-3-methylphenol, 4-	000059-50-7	1.6E+05*	...
Chloroaniline, p-	000106-47-8	3.1E+02*	...
Chlorobenzene	000108-90-7	1.6E+03*	...
Chlorobenzilate**	000510-15-6	1.6E+03	2.4E+00
Chloroform	000067-66-3	7.8E+02*	1.0E+02*
Chloromethane	000074-87-3	...	4.9E+01*
Chloromethyl methyl ether	000107-30-2	...	...
Chloromethyloxirane, 2-	000106-89-8	1.6E+02*	6.5E+01*
Chloronaphthalene, 2-	000091-58-7	6.3E+03*	...
Chlorophenol, 2-	000095-57-8	3.9E+02*	...
Chlorophenyl-phenyl ether, 4-**	007005-72-3	...	...
Chloroprene**	000126-99-8	...	...
Chlorpyrifos	002921-88-2	2.3E+02*	...
Chromium	007440-47-3	3.9E+02*	...
Chromium(III)	016065-83-1	7.8E+04*	...
Chromium(VI)	018540-29-9	3.9E+02*	...
Chrysene	000218-01-9	...	8.8E+01*

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Cobalt	007440-48-4	...	...
Copper	007440-50-8	...	...
Copper cyanide	000544-92-3	3.9E+02*	...
Coumaphos	000056-72-4	...	...
Creosote	008001-58-9	...	...
Cresol, m-	000108-39-4	3.9E+03*	...
Cresol, o-**	000095-48-7	3.9E+03	...
Cresol, p-	000106-44-5	3.9E+02*	...
Cumene	000098-82-8	3.1E+03*	...
Cyanazine	021725-46-2	1.6E+02*	7.6E-01*
Cyanide	000057-12-5	1.6E+03*	...
Cyanogen	000460-19-5	3.1E+03*	...
Cyanogen bromide	000506-68-3	7.0E+03*	...
Cyclohexane	000110-82-7	...	...
Cyclohexanone	000108-94-1	3.9E+05*	...
Cyclotrimethylenetrinitriamine	000121-82-4	2.3E+02*	5.8E+00*
DDD	000072-54-8	...	2.7E+00*
DDE	000072-55-9	...	1.9E+00*
DDT	000050-29-3	3.9E+01*	1.9E+00*

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)
DEF	000078-48-8	2.3E+00*	...
Di-n-butyl phthalate	000084-74-2	7.8E+03*	...
Di-n-octyl phthalate	000117-84-0	1.6E+03*	...
Diallate**	002303-16-4	...	1.0E+01
Diazinon	000333-41-5	7.0E+01*	...
Dibenz(a,h)anthracene	000053-70-3	...	8.8E-02*
Dibenzofuran	000132-64-9	...	...
Dibromo-3-chloropropane, 1,2-	000096-12-8	...	4.6E-01*
Dibromochloromethane	000124-48-1	1.6E+03*	7.6E+00*
Dibromoethane, 1,2-	000106-93-4	...	7.5E-03*
Dicamba	001918-00-9	2.3E+03*	...
Dichlorobenzene, 1,2-	000095-50-1	7.0E+03*	...
Dichlorobenzene, 1,3-	000541-73-1	...	...
Dichlorobenzene, 1,4-	000106-46-7	...	2.7E+01*
Dichlorobenzidine, 3,3-	000091-94-1	...	1.4E+00*
Dichlorodifluoromethane	000075-71-8	1.6E+04*	...
Dichloroethane, 1,1-	000075-34-3	7.8E+03*	...
Dichloroethane, 1,2-	000107-06-2	...	7.0E+00*
Dichloroethylene, 1,1-	000075-35-4	7.0E+02*	1.1E+00*

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Dichloroethylene, cis-1,2-	000156-59-2	7.8E+02*	...
Dichloroethylene, trans-1,2-	000156-60-5	1.6E+03*	...
Dichlorophenol, 2,4-	000120-83-2	2.3E+02*	...
Dichlorophenoxyacetic acid, 2,4-	000094-75-7	7.8E+02*	...
Dichloropropane, 1,2-	000078-87-5	...	9.4E+00*
Dichloropropene, 1,3-	000542-75-6	2.3E+01*	3.6E+00*
Dichloropropene, cis-1,3-**	010061-01-5	...	...
Dichloropropene, trans-1,3-**	010061-02-6	...	...
Dichlorvos	000062-73-7	3.9E+01*	2.2E+00*
Dicofol	000115-32-2	...	...
Dieldrin	000060-57-1	3.9E+00*	4.0E-02*
Diethyl phthalate	000084-66-2	6.3E+04*	...
Diethylene glycol	000111-46-6	...	...
Diethylstibestrol**	000056-53-1	...	1.4E-04
Diisopropylmethyl-phosphonate	001445-75-6	6.3E+03*	...
Dimethoate	000060-51-5	1.6E+01*	...
Dimethoxybenzidine, 3,3-	000119-90-4	...	4.6E+01*
Dimethyl phenol, 2,4-	000105-67-9	1.6E+03*	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Dimethyl phthalate	000131-11-3	... *	...
Dimethyl sulfate	000077-78-1	...	...
Dimethylbenz(a)anthracene, 7,12-**	000057-97-6	...	...
Dimethylbenzidine, 3,3'-**	000119-93-7	...	7.0E-02
Dinitro-2-methylphenol, 4,6-**	000534-52-1	...	...
Dinitrobenzene, 1,3-	000099-65-0	7.8E+00*	...
Dinitrophenol, 2,4-	000051-28-5	1.6E+02*	...
Dinitrotoluene, 2,4-	000121-14-2	1.6E+02*	9.4E-01*
Dinitrotoluene, 2,6-	000606-20-2	7.8E+01*	9.4E-01*
Dinoseb	000088-85-7	7.8E+01*	...
Dioxane, 1,4-	000123-91-1	...	5.8E+01*
Dioxathion	000078-34-2	...	...
Diphenylamine**	000122-39-4	2.0E+03	...
Diphenylhydrazine, 1,2-	000122-66-7	...	8.0E-01*
Diquat	000085-00-7	1.7E+02*	...
Disulfoton	000298-04-4	3.1E+00*	...
Diuron	000330-54-1	1.6E+02*	...
Endosulfan (I or II)	000115-29-7	4.7E+02*	...
Endosulfan sulfate	001031-07-8	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)
Endothall	000145-73-3	1.6E+03*	...
Endrin	000072-20-8	2.3E+01*	...
Endrin aldehyde	007421-93-4	...	...
Endrin ketone**	053494-70-5	...	...
Ethion	000563-12-2	3.9E+01*	...
Ethyl acetate	000141-78-6	7.0E+04*	...
Ethyl benzene	000100-41-4	7.8E+03*	...
Ethyl chloride	000075-00-3	...	...
Ethyl ether	000060-29-7	1.6E+04*	...
Ethyl methacrylate**	000097-63-2	7.0E+03	...
Ethyl methanesulfonate**	000062-50-0	...	...
Ethyldipropylthiocarbamate, s-	000759-94-4	2.0E+03*	...
Ethylene glycol	000107-21-1	1.6E+05*	...
Ethylene glycol monoethyl ether	000110-80-5	3.1E+04*	...
Ethylene thiourea**	000096-45-7	6.3E+00	5.8E+00
Fenthion	000055-38-9	...	...
Ferrous sulfate	007720-78-7	...	...
Fluoranthene	000206-44-0	3.1E+03*	...
Fluorene	000086-73-7	3.1E+03*	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Fluorine	007782-41-4	4.7E+03*	...
Formaldehyde	000050-00-0	1.6E+04*	...
Formic acid	000064-18-6	1.6E+05*	...
Furan	000110-00-9	7.8E+01*	...
Furfural	000098-01-1	2.3E+02*	...
Glycidylaldehyde	000765-34-4	3.1E+01*	...
Heptachlor	000076-44-8	3.9E+01*	1.4E-01*
Heptachlor epoxide	001024-57-3	1.0E+00*	7.0E-02*
Heptachlorinated dibenzo-p-dioxin, 1,2,3	035822-46-9	...	4.0E-04*
Heptachlorinated dibenzofuran, 1,2,3,4,6	067562-39-4	...	4.0E-04*
Heptachlorinated dibenzofuran, 1,2,3,4,6	055673-89-7	...	... *
Hexabromobenzene	000087-82-1	1.6E+02*	...
Hexachlorinated dibenzo-p-dioxin, 1,2,3,	039227-28-6	...	4.0E-05*
Hexachlorinated dibenzo-p-dioxin, 1,2,3,	057653-85-7	...	1.0E-04*
Hexachlorinated dibenzo-p-dioxin, 1,2,3,	019408-74-3	...	1.0E-04*
Hexachlorinated dibenzofuran, 1,2,3,4,7,	070648-26-9	...	4.0E-05*
Hexachlorinated dibenzofuran, 1,2,3,6,7,	057117-44-9	...	4.0E-05*
Hexachlorinated dibenzofuran, 1,2,3,7,8,	072918-21-9	...	4.0E-05*

Indicates difference between previous version of chemical data (JUN94) [redacted] current version of chemical data (JUN96).
Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Hexachlorinated dibenzofuran, 2,3,4,6,7,	060851-34-5	...	4.0E-05*
Hexachlorobenzene	000118-74-1	6.3E+01*	4.0E-01*
Hexachlorobutadiene	000087-68-3	1.6E+01*	8.2E+00*
Hexachlorocyclohexane, alpha-	000319-84-6	...	1.0E-01*
Hexachlorocyclohexane, beta-	000319-85-7	...	3.6E-01*
Hexachlorocyclohexane, delta-	000319-86-8	...	...
Hexachlorocyclopentadiene	000077-47-4	5.5E+02*	...
Hexachloroethane	000067-72-1	7.8E+01*	4.6E+01*
Hexachlorophene	000070-30-4	2.3E+01*	...
Hexane	000110-54-3	4.7E+03*	...
Hexanone, 2-**	000591-78-6	...	...
Hydrazine	000302-01-2	...	2.1E-01*
Hydrochloric acid	007647-01-0	...	...
Hydrogen cyanide	000074-90-8	1.6E+03*	...
Hydrogen sulfide	007783-06-4	2.3E+02*	...
Indeno(1,2,3-cd)pyrene	000193-39-5	...	8.8E-01*
Ioxynil	001689-83-4	...	...
Iron	007439-89-6	...	...
Isobutanol	000078-83-1	2.3E+04*	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Isophorone	000078-59-1	1.6E+04*	6.7E+02*
Kepone	000143-50-0	...	...
Lead	007439-92-1	...	...
Lindane	000058-89-9	2.3E+01*	4.9E-01*
Magnesium	007439-95-4	...	...
Malathion	000121-75-5	1.6E+03*	...
Maleic anhydride	000108-31-6	7.8E+03*	...
Maleic hydrazide	000123-33-1	3.9E+04*	...
Manganese	007439-96-5	1.1E+04*	...
Mercury	007439-97-6	2.3E+01*	...
Methacrylonitrile	000126-98-7	7.8E+00*	...
Methanol	000067-56-1	3.9E+04*	...
Methomyl	016752-77-5	2.0E+03*	...
Methoxychlor	000072-43-5	3.9E+02*	...
Methyl chlorocarbonate	000079-22-1	...	...
Methyl ethyl ketone	000078-93-3	4.7E+04*	...
Methyl isobutyl ketone	000108-10-1	6.3E+03*	...
Methyl methacrylate	000080-62-6	6.3E+03*	...
Methylcholanthrene, 3-**	000056-49-5	...	...

Indicates difference between previous version of chemical data (JUN94 [illegible] current version of chemical data (JUN96).
Indicates new hazardous substance in current version of chemical data ([illegible]6).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Methylene bis (2-chloroaniline), 4,4-	000101-14-4	5.5E+01*	4.9E+00*
Methylene bromide**	000074-95-3	...	...
Methylene chloride	000075-09-2	4.7E+03*	8.5E+01*
Methylenediphenyl diisocyanate, 4,4-	000101-68-8	...	...
Methylnaphthalene, 2-	000091-57-6	...	...
Metribuzin	021087-64-9	2.0E+03*	...
Mirex	002385-85-5	1.6E+01*	... *
Molybdenum**	007439-98-7	3.9E+02	...
N-nitroso-di-n-propylamine**	000621-64-7	...	9.1E-02
N-nitrosopiperidine**	000100-75-4	...	...
Naphthalene	000091-20-3	3.1E+03*	...
Naphthylamine**	000091-59-8	...	...
Nickel	007440-02-0	1.6E+03*	...
Nitric acid	007697-37-2	...	...
Nitric oxide	010102-43-9	... *	...
Nitroaniline, 2-**	000088-74-4	...	...
Nitroaniline, 3-**	000099-09-2	...	...
Nitroaniline, p-	000100-01-6	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)
Nitrobenzene	000098-95-3	3.9E+01*	...
Nitrogen dioxide	010102-44-0	... *	...
Nitroglycerine	000055-63-0	...	...
Nitrophenol, 2-**	000088-75-5	...	...
Nitrophenol, 4-	000100-02-7	...	...
Nitropropane, 2-**	000079-46-9	...	...
Nitroso-di-n-butylamine, N-	000924-16-3	...	1.2E-01*
Nitroso-di-n-methylurethane, N-	000615-53-2	...	...
Nitrosodiethanolamine, N-	001116-54-7	...	2.3E-01*
Nitrosodiethylamine, N-	000055-18-5	...	4.3E-03*
Nitrosodimethylamine, N-	000062-75-9	...	1.3E-02*
Nitrosodiphenylamine, N-	000086-30-6	...	1.3E+02*
Nitrosomethylethylamine**	010595-95-6	...	2.9E-02
Nitrosopyrrolidine, N-	000930-55-2	...	3.0E-01*
Nitrotoluene, 4-	000099-99-0	7.8E+02*	...
Octamethylpyrophosphoramide**	000152-16-9	1.6E+02	...
Oxybis (1-chloropropane), 2,3'-**	000108-60-1	...	...
Parathion, ethyl-	000056-38-2	4.7E+02*	...
Parathion, methyl-	000298-00-0	2.0E+01*	...

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)
PCBs	001336-36-3	1.6E+00*	8.3E-02*
Pentachlorinated dibenzo-p-dioxin, 1,2,3	040321-76-4	...	8.0E-06*
Pentachlorinated dibenzofuran, 1,2,3,7,8	109719-77-9	...	8.0E-05*
Pentachlorinated dibenzofuran, 2,3,4,7,8	057117-41-6	...	8.0E-06*
Pentachlorobenzene	000608-93-5	6.3E+01*	...
Pentachloroethane	000076-01-7	...	...
Pentachloronitrobenzene	000082-68-8	2.3E+02*	2.5E+00*
Pentachlorophenol	000087-86-5	2.3E+03*	5.3E+00*
Phenanthrene	000085-01-8	...	...
Phenol	000108-95-2	4.7E+04*	...
Phenyl sulfide	000139-66-2	...	...
Phenylenediamine, m-**	000108-45-2	4.7E+02	...
Phenylmercuric acetate	000062-38-4	6.3E+00*	...
Phorate	000298-02-2	1.6E+01*	...
Phosgene	000075-44-5	...	...
Phosphamidon	013171-21-6	...	...
Phosphine	007803-51-2	2.3E+01*	...
Phosphonodithioic acid, phenyl-o-ethyl-o	002104-64-5	7.8E-01*	...
Phosphoric acid	007664-38-2	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Phosphorous (elemental)	007723-14-0	1.6E+00*	...
Phthalic anhydride	000085-44-9	1.6E+05*	...
Plutonium	007440-07-5	...	...
Polychlorinated triphenyl	012642-23-8	...	...
Potassium**	007440-09-7	...	...
Potassium silver cyanide	000506-61-6	1.6E+04*	...
Pronamide	023950-58-5	5.9E+03*	...
Pyrene	000129-00-0	2.3E+03*	...
Pyridine	000110-86-1	7.8E+01*	...
Quinoline	000091-22-5	...	5.3E-02*
Radium	007440-14-4	...	...
Radon	010043-92-2	...	...
Resorcinol	000108-46-3	...	...
Ronnel	000299-84-3	3.9E+03*	...
Safrole**	000094-59-7	...	...
Selenium	007782-49-2	3.9E+02*	...
Selenourea	000630-10-4	3.9E+02*	...
Silver	007440-22-4	3.9E+02*	...

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)
Silver Cyanide	000506-64-9	7.8E+03*	...
Sodium	007440-23-5	...	...
Strontium	007440-24-6	4.7E+04*	...
Strychnine	000057-24-9	2.3E+01*	...
Styrene	000100-42-5	1.6E+04*	...
Sulfuric acid	007664-93-9	...	...
TB, 2,4,5-	000093-80-1	...	...
TCDD	001746-01-6	...	4.0E-06*
Tetrachlorobenzene, 1,2,4,5-	000095-94-3	2.3E+01*	...
Tetrachlorodibenzofuran, 2,3,7,8-	051207-31-9	...	4.0E-05*
Tetrachloroethane, 1,1,1,2-	000630-20-6	2.3E+03*	2.5E+01*
Tetrachloroethane, 1,1,2,2-	000079-34-5	...	3.2E+00*
Tetrachloroethylene	000127-18-4	7.8E+02*	1.2E+01*
Tetrachlorophenol, 2,3,4,6-	000058-90-2	2.3E+03*	...
Tetraethyl lead	000078-00-2	7.8E-03*	...
Tetraethyldithiopyrophosphate	003689-24-5	3.9E+01*	...
Tetrahydrofuran	000109-99-9	...	...
Thallium	007440-28-0	...	...
Thiourea	000062-56-6	...	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)
Thiram	000137-26-8	3.9E+02*	...
Toluene	000108-88-3	1.6E+04*	...
Toluene diisocyanate	000584-84-9	...	...
Toluenediamine, 2,4-**	000095-80-7	...	2.0E-01
Toluidine, o-**	000095-53-4	...	...
Toluidine, p-**	000106-49-0	...	3.4E+00
Toxaphene	008001-35-2	...	5.8E-01*
TP, 2,4,5-	000093-72-1	6.3E+02*	...
Tribromomethane	000075-25-2	1.6E+03*	8.1E+01*
Trichloro-1,2,2-Trifluoroethane, 1,1,2-	000076-13-1	2.3E+06*	...
Trichlorobenzene, 1,2,4-	000120-82-1	7.8E+02*	...
Trichloroethane, 1,1,1-	000071-55-6	...	...
Trichloroethane, 1,1,2-	000079-00-5	3.1E+02*	1.1E+01*
Trichloroethylene	000079-01-6	...	5.8E+01*
Trichlorofluoromethane	000075-69-4	2.3E+04*	...
Trichlorophenol, 2,3,5-	000933-78-8	...	...
Trichlorophenol, 2,3,6-	000933-75-5	...	...
Trichlorophenol, 2,4,5-	000095-95-4	7.8E+03*	...
Trichlorophenol, 2,4,6-	000088-06-2	...	5.8E+01*

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Indicates new hazardous substance in current version of chemical data ([illegible]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Trichlorophenol, 3,4,5-	000609-19-8	...	...
Trichlorophenoxyacetic acid, 2,4,5-	000093-76-5	7.8E+02*	...
Trichloropropane, 1,2,3-	000096-18-4	4.7E+02*	9.1E-02*
Triethanolamine	000102-71-6	...	...
Trifluralin	001582-09-8	5.9E+02*	8.3E+01*
Trinitrobenzene, 1,3,5-	000099-35-4	3.9E+00*	...
Trinitrotoluene	000118-96-7	3.9E+01*	2.1E+01*
Tris (2,3-dibromopropyl) phosphate	000126-72-7	...	...
Vanadium	007440-62-2	5.5E+02*	...
Vanadium pentoxide	001314-62-1	7.0E+02*	...
Vinyl acetate	000108-05-4	7.8E+04*	...
Vinyl chloride	000075-01-4	...	3.4E-01*
Warfarin	000081-81-2	2.3E+01*	...
Xylene, m-	000108-38-3	1.6E+05*	...
Xylene, o-	000095-47-6	1.6E+05*	...
Xylene, p-	000106-42-3	...	...
Zinc	007440-66-6	2.3E+04*	...
Zinc cyanide	000557-21-1	3.9E+03*	...

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HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
375 Substances

Substance Name	CAS Number	SOIL PATHWAY Reference Dose Screen Conc (mg/kg)	SOIL PATHWAY Cancer Risk Screen Conc (mg/kg)
Zinc phosphide	001314-84-7	2.3E+01*	...
Zinc sulfate	007733-02-0	...	...

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Indicates new hazardous substance in current version of chemical data ([redacted]).

HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
47 Radionuclides

			Ground Water Mobility						Bioaccumulation									
			Liquid		Non-Liquid		Persistence		Food Chain		Environmental		Ecotoxicity					
Substance Name	CAS Number	Toxicity	Karst	Non-Karst	Karst	Non-Karst	River	Lake	Fresh	Salt	Fresh	Salt	Fresh	Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Americium 241**	014596-10-2	10000	1.0E+00	1.0E-02	...	...	1.0000	1.0000	0.5	0.5	0.5	0.5	10000	10000	NA	NA	No	Yes
Americium 243+D**	014993-75-0	10000	1.0E+00	1.0E-02	...	...	1.0000	1.0000	0.5	0.5	0.5	0.5	10000	10000	NA	NA	No	Yes
Antimony 125(+D) (radionuclide)**	014234-35-6	1000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	5.0	5.0	1000	1000	NA	NA	No	Yes
Cadmium 109 (radionuclide)**	014109-32-1	1000	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	1000	1000	NA	NA	No	Yes
Cesium 134 (radionuclide)**	013967-70-9	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	10000	10000	NA	NA	No	Yes
Cesium 135 (radionuclide)**	015726-30-4	1000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	1000	1000	NA	NA	No	Yes
Cesium 137(+D) (radionuclide)**	010045-97-3	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	10000	10000	NA	NA	No	Yes
Cobalt 57 (radionuclide)**	013981-50-5	100	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	5000.0	5000.0	100	100	NA	NA	No	Yes
Cobalt 60 (radionuclide)**	010198-40-0	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	5000.0	5000.0	10000	10000	NA	NA	No	Yes
Iron 55 (radionuclide)**	014681-59-5	100	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	100	100	NA	NA	No	Yes
Lead 210(+D) (radionuclide)**	014255-04-0	10000	1.0E+00	1.0E-02	2.0E-03	2.0E-05	1.0000	1.0000	50.0	5000.0	5000.0	5000.0	10000	10000	NA	NA	No	Yes
Manganese 54 (radionuclide)**	013966-31-9	1000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	50000.0	50000.0	1000	1000	NA	NA	No	Yes
Nickel 59 (radionuclide)**	014336-70-0	100	1.0E+00	1.0E-02	2.0E-03	2.0E-05	1.0000	1.0000	0.5	500.0	500.0	500.0	100	100	NA	NA	No	Yes
Nickel 63 (radionuclide)**	013981-37-8	100	1.0E+00	1.0E-02	2.0E-03	2.0E-05	1.0000	1.0000	0.5	500.0	500.0	500.0	100	100	NA	NA	No	Yes
Plutonium 236 (radionuclide)	015411-92-4	10000	1.0E+00	1.0E-04*	...	...	1.0000	1.0000	50.0	50.0	50000.0	50000.0	10000	10000	NA	NA	No	Yes
Plutonium 238 (radionuclide)	013981-16-3	10000	1.0E+00	1.0E-04*	...	...	1.0000	1.0000	50.0	50.0	50000.0	50000.0	10000	10000	NA	NA	No	Yes
Plutonium 239 (radionuclide)	015117-48-3	10000	1.0E+00	1.0E-04*	...	...	1.0000	1.0000	50.0	50.0	50000.0	50000.0	10000	10000	NA	NA	No	Yes
Plutonium 240 (radionuclide)	014119-33-6	10000	1.0E+00	1.0E-04*	...	...	1.0000	1.0000	50.0	50.0	50000.0	50000.0	10000	10000	NA	NA	No	Yes
Plutonium 241(+D) (radionuclide)	014119-32-5	10000	1.0E+00	1.0E-04*	...	...	1.0000	1.0000	50.0	50.0	50000.0	50000.0	10000	10000	NA	NA	No	Yes

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** Indicates new hazardous substance in current version of chemical data (JUN96).

HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
47 Radionuclides

Substance Name	CAS Number	Toxicity	Ground Water Mobility: Liquid: Karst	Ground Water Mobility: Liquid: Non-Karst	Ground Water Mobility: Non-Liquid: Karst	Ground Water Mobility: Non-Liquid: Non-Karst	Persistence: River	Persistence: Lake	Bioaccumulation: Food Chain: Fresh	Bioaccumulation: Food Chain: Salt	Bioaccumulation: Environmental: Fresh	Bioaccumulation: Environmental: Salt	Ecotoxicity: Fresh	Ecotoxicity: Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Plutonium 242 (radionuclide)	013982-10-0	10000	1.0E+00	1.0E-04*	...	...	1.0000	1.0000	50.0	50.0	50000.0	50000.0	10000	10000	NA	NA	No	Yes
Plutonium 243 (radionuclide)	015706-37-3	100	1.0E+00	1.0E-04*	...	...	0.0700	0.0700	50.0	50.0	50000.0	50000.0	100	100	NA	NA	No	Yes
Plutonium 244(+D) (radionuclide)	014119-34-7	10000	1.0E+00	1.0E-04*	...	...	1.0000	1.0000	50.0	50.0	50000.0	50000.0	10000	10000	NA	NA	No	Yes
Potassium 40 (radionuclide)**	013966-00-2	1000	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0000	1.0000	0.5	0.5	0.5	0.5	1000	1000	NA	NA	No	Yes
Radium 226(+D) (radionuclide)	013982-63-3	10000	1.0E+00	1.0E-02	2.0E-01*	2.0E-03*	1.0000	1.0000	5000.0*	5000.0*	5000.0*	5000.0*	10000	10000	NA	NA	No	Yes
Radium 228(+D) (Radionuclide)**	015262-20-1	10000	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	5000.0	5000.0	5000.0	5000.0	10000	10000	NA	NA	No	Yes
Radon 222(+D) (radionuclide)	014859-67-7	1000*	1.0E+00	1.0E+00	1.0E+00*	1.0E+00*	1.0000	0.4000	0.5	0.5	0.5	0.5	1000*	1000*	17*	1.0000*	Yes*	No*
Silver 108m(+D) (radionuclide)**	014391-65-2	10000	1.0E+00	1.0E+00	2.0E-05	2.0E-05	1.0000	1.0000	50.0	50.0	50.0	50.0	10000	10000	NA	NA	No	Yes
Silver 110m (radionuclide)**	014391-76-5	10000	1.0E+00	1.0E+00	2.0E-05	2.0E-05	1.0000	1.0000	50.0	50.0	50.0	50.0	10000	10000	NA	NA	No	Yes
Sodium 22 (radionuclide)**	013966-32-0	1000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	1000	1000	NA	NA	No	Yes
Strontium 89 (radionuclide)**	014158-27-1	1000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	1000	1000	NA	NA	No	Yes
Strontium 90(+D) (radionuclide)**	010098-97-2	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	0.5	0.5	0.5	0.5	10000	10000	NA	NA	No	Yes
Thallium 204 (radionuclide)**	013968-51-9	100	1.0E+00	1.0E-04	1.0E+00	1.0E-04	1.0000	1.0000	500.0	50.0	500.0	50.0	100	100	NA	NA	No	Yes
Thorium 227 (radionuclide)	015623-47-9	10000	1.0E+00	1.0E-04	1.0E+00*	1.0E-04*	1.0000	0.4000	500.0*	500.0*	500.0*	500.0*	10000	10000	NA	NA	No	Yes
Thorium 228(+D) (radionuclide)	014274-82-9	10000	1.0E+00	1.0E-04	1.0E+00*	1.0E-04*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	10000	10000	NA	NA	No	Yes
Thorium 229(+D) (radionuclide)	015594-54-4	10000	1.0E+00	1.0E-04	1.0E+00*	1.0E-04*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	10000	10000	NA	NA	No	Yes
Thorium 230 (radionuclide)	014269-63-7	10000	1.0E+00	1.0E-04	1.0E+00*	1.0E-04*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	10000	10000	NA	NA	No	Yes
Thorium 231 (radionuclide)	014932-40-2	100	1.0E+00	1.0E-04	1.0E+00*	1.0E-04*	0.4000	0.0700	500.0*	500.0*	500.0*	500.0*	100	100	NA	NA	No	Yes

* Indicates difference between previous version of chemical data (JUN94) and current version of chemical data (JUN96).
** Indicates new hazardous substance in current version of chemical data (JUN96).

HAZARD RANKING SYSTEM
Hazardous Substance Factor Values
47 Radionuclides

			Ground Water Mobility						Bioaccumulation									
			Liquid		Non-Liquid		Persistence		Food Chain		Environmental		Ecotoxicity					
Substance Name	CAS Number	Toxicity	Karst	Non-Karst	Karst	Non-Karst	River	Lake	Fresh	Salt	Fresh	Salt	Fresh	Salt	Air Gas Migration	Air Gas Mobility	Gas	Part
Thorium 232 (radionuclide)	007440-29-1	10000	1.0E+00	1.0E-04	1.0E+00*	1.0E-04*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	10000	10000	NA	NA	No	Yes
Thorium 234 (radionuclide)	015065-10-8	1000*	1.0E+00	1.0E-04	1.0E+00*	1.0E-04*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	1000*	1000*	NA	NA	No	Yes
Tritium	010028-17-8	100	1.0E+00	1.0E+00	...	...	1.0000	1.0000	0.5	0.5	0.5	0.5	100	100	17*	1.0000*	Yes*	No*
Uranium 232 (radionuclide)**	014158-29-3	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	500.0	500.0	500.0	500.0	10000	10000	NA	NA	No	Yes
Uranium 233 (radionuclide)	013968-55-3	10000	1.0E+00	1.0E-02	1.0E+00*	1.0E-02*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	10000	10000	NA	NA	No	Yes
Uranium 234 (radionuclide)	013966-29-5	10000	1.0E+00	1.0E-02	1.0E+00*	1.0E-02*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	10000	10000	NA	NA	No	Yes
Uranium 235(+D) (radionuclide)	015117-96-1	10000	1.0E+00	1.0E-02	1.0E+00*	1.0E-02*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	10000	10000	NA	NA	No	Yes
Uranium 236(+D) (radionuclide)**	013982-70-2	10000	1.0E+00	1.0E-02	1.0E+00	1.0E-02	1.0000	1.0000	500.0	500.0	500.0	500.0	10000	10000	NA	NA	No	Yes
Uranium 238(+D) (radionuclide)	007440-61-1	10000	1.0E+00	1.0E-02	1.0E+00*	1.0E-02*	1.0000	1.0000	500.0*	500.0*	500.0*	500.0*	10000	10000	NA	NA	No	Yes
Zinc 65 (radionuclide)**	013982-39-3	1000	1.0E+00	1.0E-02	2.0E-01	2.0E-03	1.0000	1.0000	500.0	50000.0	500.0	50000.0	1000	1000	NA	NA	No	Yes

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** Indicates new hazardous substance in current version of chemical data (JUN96).

Appendix B-2

Tables for Radionuclides

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
47 Radionuclides

Substance Name	CAS Number	AIR PATHWAY Cancer Risk Screen Conc (pCi/m^3)	GROUND WATER PATHWAY MCL (pCi/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (pCi/L)	SURFACE WATER PATHWAY Drinking Water MCL (pCi/L)	SURFACE WATER PATHWAY Drinking Water Cancer Risk Screen Conc (pCi/L)	SURFACE WATER PATHWAY Food Chain Cancer Risk Screen Conc (pCi/kg)	SOIL EXPOSURE UMTRCA (pCi/kg)	SOIL EXPOSURE Cancer Risk Screen Conc Ingestion (pCi/kg)	SOIL EXPOSURE Cancer Risk Screen Conc External Exposure (pCi/kg)
Americium 241**	014596-10-2	1.2E-04	...	1.5E-01	...	1.5E-01	5.4E+00	...	2.4E+03	...
Americium 243+D**	014993-75-0	1.2E-04	...	1.4E-01	...	1.4E-01	5.3E+00	...	2.4E+03	...
Antimony 125(+D) (radionuclide)**	014234-35-6	8.1E-01	...	1.3E+01	...	1.3E+01	5.0E+02	...	2.2E+05	...
Cadmium 109 (radionuclide)**	014109-32-1	2.6E-01	...	5.9E+00	...	5.9E+00	2.2E+02	...	9.9E+04	...
Cesium 134 (radionuclide)**	013967-70-9	1.6E-01	...	1.0E+00	...	1.0E+00	3.7E+01	...	1.7E+04	...
Cesium 135 (radionuclide)**	015726-30-4	1.8E+00	...	1.1E+01	...	1.1E+01	3.9E+02	...	1.8E+05	...
Cesium 137(+D) (radionuclide)**	010045-97-3	2.5E-01	...	1.5E+00	...	1.5E+00	5.6E+01	...	2.5E+04	...
Cobalt 57 (radionuclide)**	013981-50-5	1.7E+00	...	4.9E+01	...	4.9E+01	1.8E+03	...	8.2E+05	...
Cobalt 60 (radionuclide)**	010198-40-0	6.9E-02	...	2.5E+00	...	2.5E+00	9.3E+01	...	4.2E+04	...
Iron 55 (radionuclide)**	014681-59-5	8.5E+00	...	1.4E+02	...	1.4E+02	5.0E+03	...	2.3E+06	...
Lead 210(+D) (radionuclide)**	014255-04-0	1.2E-03	...	4.7E-02	...	4.7E-02	1.7E+00	...	7.9E+02	...
Manganese 54 (radionuclide)**	013966-31-9	1.3E+00	...	2.4E+01	...	2.4E+01	9.0E+02	...	4.1E+05	...
Nickel 59 (radionuclide)**	014336-70-0	1.2E+01	...	2.6E+02	...	2.6E+02	9.5E+03	...	4.3E+06	...
Nickel 63 (radionuclide)**	013981-37-8	4.7E+00	...	8.7E+01	...	8.7E+01	3.2E+03	...	1.4E+06	...
Plutonium 236 (radionuclide)	015411-92-4	3.6E-04*	...	6.2E-01*	...	6.2E-01*	2.3E+01*	...	1.0E+04*	...
Plutonium 238 (radionuclide)	013981-16-3	1.7E-04*	...	1.6E-01*	...	1.6E-01*	6.0E+00*	...	2.7E+03*	...
Plutonium 239 (radionuclide)	015117-48-3	1.7E-04*	...	1.5E-01*	...	1.5E-01*	5.6E+00*	...	2.5E+03*	...
Plutonium 240 (radionuclide)	014119-33-6	1.7E-04*	...	1.5E-01*	...	1.5E-01*	5.6E+00*	...	2.5E+03*	...
Plutonium 241(+D) (radionuclide)	014119-32-5	1.2E-04*	...	1.4E-01*	...	1.4E-01*	5.3E+00*	...	2.4E+03*	...

* Indicates difference between previous version of chemical data (JUN94) and current version of chemical data (JUN96).
** Indicates new hazardous substance in current version of chemical data (JUN96).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
47 Radionuclides

Substance Name	CAS Number	AIR PATHWAY Cancer Risk Screen Conc (pCi/m^3)	GROUND WATER PATHWAY MCL (pCi/L)	GROUND WATER PATHWAY Cancer Risk Screen Conc (pCi/L)	SURFACE WATER PATHWAY Drinking Water MCL (pCi/L)	SURFACE WATER PATHWAY Drinking Water Cancer Risk Screen Conc (pCi/L)	SURFACE WATER PATHWAY Food Chain Cancer Risk Screen Conc (pCi/kg)	SOIL EXPOSURE UMTRCA (pCi/kg)	SOIL EXPOSURE Cancer Risk Screen Conc Ingestion (pCi/kg)	SOIL EXPOSURE Cancer Risk Screen Conc External Exposure (pCi/kg)
Plutonium 242 (radionuclide)	013982-10-0	1.8E-04*	...	1.6E-01*	...	1.6E-01*	5.9E+00*	...	2.6E+03*	...
Plutonium 243 (radionuclide)	015706-37-3	1.8E+01*	...	1.3E+02*	...	1.3E+02*	4.8E+03*	...	2.2E+06*	...
Plutonium 244(+D) (radionuclide)	014119-34-7	1.8E-04*	...	1.5E-01*	...	1.5E-01*	5.5E+00*	...	2.5E+03*	...
Potassium 40 (radionuclide)**	013966-00-2	6.4E-01	...	3.8E+00	...	3.8E+00	1.4E+02	...	6.4E+04	...
Radium 226(+D) (radionuclide)	013982-63-3	1.7E-03*	...	1.6E-01*	...	1.6E-01*	5.9E+00*	...	2.7E+03*	...
Radium 228(+D) (Radionuclide)**	015262-20-1	4.8E-03	...	1.9E-01	...	1.9E-01	7.1E+00	...	3.2E+03	...
Radon 222(+D) (radionuclide)	014859-67-7	6.3E-01*	...	... *	...	... *	... *	...	... *	...
Silver 108m(+D) (radionuclide)**	014391-65-2	6.8E-02	...	7.9E+00	...	7.9E+00	2.9E+02	...	1.3E+05	...
Silver 110m (radionuclide)**	014391-76-5	1.5E-01	...	5.6E+00	...	5.6E+00	2.1E+02	...	9.4E+04	...
Sodium 22 (radionuclide)**	013966-32-0	9.8E-01	...	5.9E+00	...	5.9E+00	2.2E+02	...	9.9E+04	...
Strontium 89 (radionuclide)**	014158-27-1	1.3E+00	...	4.6E+00	...	4.6E+00	1.7E+02	...	7.7E+04	...
Strontium 90(+D) (radionuclide)**	010098-97-2	6.9E-02	...	8.5E-01	...	8.5E-01	3.1E+01	...	1.4E+04	...
Thallium 204 (radionuclide)**	013968-51-9	4.1E+00	...	2.4E+01	...	2.4E+01	8.9E+02	...	4.0E+05	...
Thorium 227 (radionuclide)	015623-47-9	1.1E-03*	...	1.2E+00*	...	1.2E+00*	4.4E+01*	...	2.0E+04*	...
Thorium 228(+D) (radionuclide)	014274-82-9	4.9E-05*	...	2.1E-01*	...	2.1E-01*	7.6E+00*	...	3.4E+03*	...
Thorium 229(+D) (radionuclide)	015594-54-4	5.8E-05*	...	1.3E-01*	...	1.3E-01*	4.9E+00*	...	2.2E+03*	...
Thorium 230 (radionuclide)	014269-63-7	2.8E-04*	...	1.3E+00*	...	1.3E+00*	4.7E+01*	...	2.1E+04*	...
Thorium 231 (radionuclide)	014932-40-2	4.3E+00*	...	2.7E+01*	...	2.7E+01*	9.8E+02*	...	4.4E+05*	...

Indicates difference between previous version of chemical data (JUN94) [illegible] current version of chemical data (JUN96).
Indicates new hazardous substance in current version of chemical data ([illegible]).

HAZARD RANKING SYSTEM
Hazardous Substance Benchmarks
47 Radionuclides

					SURFACE WATER PATHWAY				SOIL EXPOSURE	
		AIR PATHWAY	GROUND WATER PATHWAY		Drinking Water		Food Chain		Cancer Risk Screen Conc	
Substance Name	CAS Number	Cancer Risk Screen Conc (pCi/m^3)	MCL (pCi/L)	Cancer Risk Screen Conc (pCi/L)	MCL (pCi/L)	Cancer Risk Screen Conc (pCi/L)	Cancer Risk Screen Conc (pCi/kg)	UMTRCA (pCi/kg)	Ingestion (pCi/kg)	External Exposure (pCi/kg)
Thorium 232 (radionuclide)	007440-29-1	2.5E-04*	...	1.5E+00*	...	1.5E+00*	5.4E+01*	...	2.4E+04*	...
Thorium 234 (radionuclide)	015065-10-8	2.5E-01*	...	2.5E+00*	...	2.5E+00*	9.1E+01*	...	4.1E+04*	...
Tritium	010028-17-8	5.0E+01*	...	6.6E+02*	...	6.6E+02*	2.4E+04*	...	1.1E+07*	...
Uranium 232 (radionuclide)**	014158-29-3	9.0E-05	...	5.9E-01	...	5.9E-01	2.2E+01	...	9.8E+03	...
Uranium 233 (radionuclide)	013968-55-3	3.4E-04*	...	1.1E+00*	...	1.1E+00*	3.9E+01*	...	1.8E+04*	...
Uranium 234 (radionuclide)	013966-29-5	3.4E-04*	...	1.1E+00*	...	1.1E+00*	4.0E+01*	...	1.8E+04*	...
Uranium 235(+D) (radionuclide)	015117-96-1	3.7E-04*	...	1.0E+00*	...	1.0E+00*	3.7E+01*	...	1.7E+04*	...
Uranium 236(+D) (radionuclide)**	013982-70-2	3.6E-04	...	1.1E+00	...	1.1E+00	4.2E+01	...	1.9E+04	...
Uranium 238(+D) (radionuclide)	007440-61-1	3.8E-04*	...	7.7E-01*	...	7.7E-01*	2.8E+01*	...	1.3E+04*	...
Zinc 65 (radionuclide)**	013982-39-3	4.8E-01	...	4.8E+00	...	4.8E+00	1.8E+02	...	8.0E+04	...

* Indicates difference between previous version of chemical data (JUN94) and current version of chemical data (JUN96).
** Indicates new hazardous substance in current version of chemical data (JUN96).

Appendix C

Synonym List

SCDM Data Version: JUN96

CAS Number	SCDM Name	Synonym Name
000083-32-9	Acenaphthene	*Acenaphthylene, 1,2-dihydro
000208-96-8	Acenaphthylene	
000075-07-0	Acetaldehyde	*Ethyl aldehyde
000067-64-1	Acetone	*2-Propanone
000075-05-8	Acetonitrile	*Methyl cyanide
000098-86-2	Acetophenone	*Acetylbenzene
000591-08-2	Acetyl-2-thiourea, 1-	*Acetylthiocarbamide, n-
000107-02-8	Acrolein	*Propenal
000079-06-1	Acrylamide	*Propenamide
000079-10-7	Acrylic acid	*Propenoic acid
000107-13-1	Acrylonitrile	*Vinyl cyanide
000124-04-9	Adipic acid	*Hexanedioic acid
000116-06-3	Aldicarb	
000309-00-2	Aldrin	
000107-18-6	Allyl alcohol	*Propenol, 2-
000107-05-1	Allyl chloride	
007429-90-5	Aluminum	
020859-73-8	Aluminum phosphide	*Phostoxin
014596-10-2	Americium 241	
014993-75-0	Americium 243+D	
007664-41-7	Ammonia	
000131-74-8	Ammonium picrate	*Phenol, 2,4,6-trinitro-, ammonium salt
007773-06-0	Ammonium sulfamate	*Sulfamic acid, monoammonium salt
000062-53-3	Aniline	*Benzeneamine
000120-12-7	Anthracene	*Paranaphthalene
007440-36-0	Antimony	
014234-35-6	Antimony 125(+D) (radionuclide)	
007440-38-2	Arsenic	
001332-21-4	Asbestos	
001912-24-9	Atrazine	
002642-71-9	Azinphos- ethyl	*Ethyl guthion
000086-50-0	Azinphos- methyl	*Methyl guthion
000151-56-4	Aziridine	*Ethylenimine
007440-39-3	Barium	
000542-62-1	Barium cyanide	*Barium dicyanide
000056-55-3	Benz(a)anthracene	*Benzanthrene
000071-43-2	Benzene	*Coal naptha
000098-88-4	Benzene carbonyl chloride	*Benzoyl chloride
000092-87-5	Benzidine	*(1,1'-biphenyl)-4,4'-diamine
000050-32-8	Benzo(a)pyrene	*Benz(a)pyrene
000205-99-2	Benzo(b)fluoranthene	*Benzo(b)fluoranthene
000191-24-2	Benzo(g,h,i)perylene	

* - Indicates preferred synonym for this chemical.

SCDM Data Version: JUN96

CAS Number	SCDM Name	Synonym Name
000207-08-9	Benzo(k)fluoranthene	*Dibenzo(bjk)fluorene
000065-85-0	Benzoic acid	*Benzoate
000100-47-0	Benzonitrile	*Phenyl cyanide
000095-16-9	Benzothiazole, 1,2,-	
000100-51-6	Benzyl alcohol	
000100-44-7	Benzyl chloride	*Chloromethyl benzene
007440-41-7	Beryllium	
000092-52-4	Biphenyl, 1,1-	*Biphenyl
000117-81-7	Bis (2-ethylhexyl) phthalate	*Benzenedicarboxylic acid, bis (2-ethylhexyl) ester, 1,2-
000111-91-1	Bis(2-chloroethoxy)methane	
000111-44-4	Bis(2-chloroethyl)ether	*1,1'-oxybis(2-chloroethane)
039638-32-9	Bis(2-chloroisopropyl)ether	
000542-88-1	Bis(chloromethyl)ether	*Oxybis(chloromethane)
007440-42-8	Boron	
000075-27-4	Bromodichloromethane	*Dichlorobromomethane
000074-83-9	Bromomethane	*Methylbromide
000101-55-3	Bromophenyl-phenylether, 4-	
001689-84-5	Bromoxynil	*3,4-dibromo-4-hydroxy-benzonitrile
000106-99-0	Butadiene, 1,3-	*Butadiene
000071-36-3	Butanol	*Butyl alcohol
000085-68-7	Butylbenzyl phthalate	*1,2-benzenedicarboxylic acid, butyl phenylmethyl ester
000094-82-6	Butyric acid, 4-(2,4-dichlorophenoxy)	*2,4-DB
007440-43-9	Cadmium	
014109-32-1	Cadmium 109 (radionuclide)	
007440-70-2	Calcium	
000133-06-2	Captan	
000063-25-2	Carbaryl	*Methylcarbamate-1-naphthalenol
000086-74-8	Carbazole	
001563-66-2	Carbofuran	*2,3-dihydro-2,2-dimethyl-7-benzofuranol methylcarbamate
000075-15-0	Carbon disulfide	*Dithiocarbonic anhydride
000056-23-5	Carbon tetrachloride	*Tetrachloromethane
000786-19-6	Carbophenothion	*Carbofenthion
007440-46-2	Cesium	
013967-70-9	Cesium 134 (radionuclide)	
015726-30-4	Cesium 135 (radionuclide)	
010045-97-3	Cesium 137(+D) (radionuclide)	
000075-87-6	Chloral	*Trichloroacetaldehyde
000057-74-9	Chlordane	*Octachloro-4,7-methanotetrahydroindane
005103-71-9	Chlordane, alpha-	*cis-Chlordane
005566-34-7	Chlordane, gamma-	*trans-Chlordane
000506-77-4	Chlorine cyanide	*Cyanogen chloride
000059-50-7	Chloro-3-methylphenol, 4-	*Chloro-m-cresol, p-

* - Indicates preferred synonym for this chemical.

SCDM Data Version: JUN96

CAS Number	SCDM Name	Synonym Name
000106-47-8	Chloroaniline, p-	*Chloro-benzeneamine, 4-
000108-90-7	Chlorobenzene	*Phenyl chloride
000510-15-6	Chlorobenzilate	
000067-66-3	Chloroform	*Trichlormethane
000074-87-3	Chloromethane	*Methyl chloride
000107-30-2	Chloromethyl methyl ether	*Chloromethoxy-methane
000106-89-8	Chloromethyloxirane, 2-	*Chloropropylene oxide, 3-
000091-58-7	Chloronaphthalene, 2-	*Chloronaphthalene, beta-
000095-57-8	Chlorophenol, 2-	*Hydroxychlorobenzene, 2-
007005-72-3	Chlorophenyl-phenyl ether, 4-	
000126-99-8	Chloroprene	
002921-88-2	Chlorpyrifos	*Dursban
007440-47-3	Chromium	*Chrome
016065-83-1	Chromium(III)	
018540-29-9	Chromium(VI)	
000218-01-9	Chrysene	*Benzophenanthrene, 1,2-
007440-48-4	Cobalt	
013981-50-5	Cobalt 57 (radionuclide)	
010198-40-0	Cobalt 60 (radionuclide)	
007440-50-8	Copper	
000544-92-3	Copper cyanide	*Cuprous cyanide
000056-72-4	Coumaphos	*Coumafos
008001-58-9	Creosote	*Naphthalene oil
000108-39-4	Cresol, m-	*Methyl phenol, 3-
000095-48-7	Cresol, o-	
000106-44-5	Cresol, p-	*Methyl phenol, 4-
000098-82-8	Cumene	*Methylethylbenzene, 1-
021725-46-2	Cyanazine	
000057-12-5	Cyanide	*Hydrocyanic acid
000460-19-5	Cyanogen	*Oxalonitrile
000506-68-3	Cyanogen bromide	*Bromocyanide
000110-82-7	Cyclohexane	*Hexahydrobenzene
000108-94-1	Cyclohexanone	*Pimelic ketone
000121-82-4	Cyclotrimethylenetrinitriamine	
000072-54-8	DDD	*Dichlorodiphenyl dichloroethane
000072-55-9	DDE	*Dichlorodiphenyldichloroethylene, p,p-
000050-29-3	DDT	*Dichlorodiphenyltrichloroethane, 4,4-
000078-48-8	DEF	*Tributyl phosphorotrithioate, s,s,s-
000084-74-2	Di-n-butyl phthalate	*Benzenedicarboxylic acid, dibutyl ester, 1,2-
000117-84-0	Di-n-octyl phthalate	*Benzenedicarboxylic acid, dioctyl ester, 1,2-
002303-16-4	Diallate	
000333-41-5	Diazinon	

* - Indicates preferred synonym for this chemical.

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CAS Number	SCDM Name	Synonym Name
000053-70-3	Dibenz(a,h)anthracene	*Dibenz(a)anthracene, 1,2:5,6-
000132-64-9	Dibenzofuran	Diphenylene Oxide
000096-12-8	Dibromo-3-chloropropane, 1,2-	*Nemazon
000124-48-1	Dibromochloromethane	
000106-93-4	Dibromoethane, 1,2-	*Ethylene dibromide (EDB)
001918-00-9	Dicamba	*Methoxy-3,6-dichlorobenzoic acid, 2-
000095-50-1	Dichlorobenzene, 1,2-	*Dichlorobenzene, o-
000541-73-1	Dichlorobenzene, 1,3-	*Phenylene dichloride, m-
000106-46-7	Dichlorobenzene, 1,4-	*Chlorophenyl chloride, p-
000091-94-1	Dichlorobenzidine, 3,3-	*Dichlorobenzidine, o,o-
000075-71-8	Dichlorodifluoromethane	*Freon 12
000075-34-3	Dichloroethane, 1,1-	*Ethylidene chloride
000107-06-2	Dichloroethane, 1,2-	*Ethylene chloride
000075-35-4	Dichloroethylene, 1,1-	*Dichloroethylene, 1,1-
000156-59-2	Dichloroethylene, cis-1,2-	*cis-dichloroethylene
000156-60-5	Dichloroethylene, trans-1,2-	*1,2-dichloroethylene
000120-83-2	Dichlorophenol, 2,4-	*Dichlorophenol, 4,6-
000094-75-7	Dichlorophenoxyacetic acid, 2,4-	*2,4- D, acid
000078-87-5	Dichloropropane, 1,2-	*Propylene chloride
000542-75-6	Dichloropropene, 1,3-	*Dichloropropylene, 1,3-
010061-01-5	Dichloropropene, cis-1,3-	
010061-02-6	Dichloropropene, trans-1,3-	
000062-73-7	Dichlorvos	*Dimethyl dichlorovinyl phosphate
000115-32-2	Dicofol	*Dichlorokelthane
000060-57-1	Dieldrin	*Aldrin epoxide
000084-66-2	Diethyl phthalate	*Benzenedicarboxylic acid, didecyl ester, 1,2-
000111-46-6	Diethylene glycol	*Oxybis-ethanol, 2,2-
000056-53-1	Diethylstibestrol	
001445-75-6	Diisopropylmethyl-phosphonate	
000060-51-5	Dimethoate	*Dimethyl S-(N-methylcarbamoylmethyl) dithiophosphate, o,o-
000119-90-4	Dimethoxybenzidine, 3,3-	*Diamino-3,3-dimethoxybiphenyl, 4,4-
000105-67-9	Dimethyl phenol, 2,4-	*1-Hydroxy-2,4-dimethylbenzene
000131-11-3	Dimethyl phthalate	*Benzenedicarboxylic acid, dimethyl ester, 1,2-
000077-78-1	Dimethyl sulfate	*Sulfuric acid, dimethyl ester
000057-97-6	Dimethylbenz(a)anthracene, 7,12-	
000119-93-7	Dimethylbenzidine, 3,3'-	
000534-52-1	Dinitro-2-methylphenol, 4,6-	
000099-65-0	Dinitrobenzene, 1,3-	*Dinitrobenzene, 1,2-
000051-28-5	Dinitrophenol, 2,4-	*Hydroxy-2,4-dinitrobenzene, 1-
000121-14-2	Dinitrotoluene, 2,4-	*Methyl-2,4-dinitrobenzene, 1-
000606-20-2	Dinitrotoluene, 2,6-	*2-Methyl-1,3-dinitrobenzene
000088-85-7	Dinoseb	*Dinitro-6-(1-methylpropyl) phenol, 2,4-

* - Indicates preferred synonym for this chemical.

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CAS Number	SCDM Name	Synonym Name
000123-91-1	Dioxane, 1,4-	*Tetrahydro-1,4-dioxin
000078-34-2	Dioxathion	
000122-39-4	Diphenylamine	
000122-66-7	Diphenylhydrazine, 1,2-	*Hydrazodibenzene
000085-00-7	Diquat	*Diquat dibromide
000298-04-4	Disulfoton	
000330-54-1	Diuron	*(3,4-Dichlorophenyl)-1,1-dimethylurea, 3-
000115-29-7	Endosulfan (I or II)	
001031-07-8	Endosulfan sulfate	*Thiodan sulfate
000145-73-3	Endothall	*Phthalic acid, hexahydro-3,6-endo-oxy-
000072-20-8	Endrin	
007421-93-4	Endrin aldehyde	
053494-70-5	Endrin ketone	
000563-12-2	Ethion	*Tetraethyl S,S'-methylenebisphosphorithioate, o,o,o',o'-
000141-78-6	Ethyl acetate	*Acetic acid, ethyl ester
000100-41-4	Ethyl benzene	*Phenylethane
000075-00-3	Ethyl chloride	*Chloroethane
000060-29-7	Ethyl ether	*Diethyl ether
000097-63-2	Ethyl methacrylate	
000062-50-0	Ethyl methanesulfonate	
000759-94-4	Ethyldipropylthiocarbamate, s-	*Carbamothioic acid, dipropyl-, s-ethyl ester
000107-21-1	Ethylene glycol	*Ethanediol, 1,2-
000110-80-5	Ethylene glycol monoethyl ether	*Ethoxy-ethanol, 2-
000096-45-7	Ethylene thiourea	
000055-38-9	Fenthion	*Phosphorothioic acid, o,o-dimethyl
007720-78-7	Ferrous sulfate	*Sulfuric acid iron salt (1:1)
000206-44-0	Fluoranthene	*Fluoranthene
000086-73-7	Fluorene	*Methylenebiphenyl, 2,2-
007782-41-4	Fluorine	*Fluorine-19
000050-00-0	Formaldehyde	*Methylene oxide
000064-18-6	Formic acid	*Methanoic acid
000110-00-9	Furan	*Oxacyclopentadiene
000098-01-1	Furfural	*Furancarboxaldehyde, 2-
000765-34-4	Glycidylaldehyde	*Oxiranecarboxaldehyde
000076-44-8	Heptachlor	*Chlorochlordene, 3-
001024-57-3	Heptachlor epoxide	*Epoxyheptachlor
035822-46-9	Heptachlorinated dibenzo-p-dioxin, 1,2,3,4,6,7,8-	
067562-39-4	Heptachlorinated dibenzofuran, 1,2,3,4,6,7,8-	
055673-89-7	Heptachlorinated dibenzofuran, 1,2,3,4,6,7,9-	
000087-82-1	Hexabromobenzene	
039227-28-6	Hexachlorinated dibenzo-p-dioxin, 1,2,3,4,7,8-	
057653-85-7	Hexachlorinated dibenzo-p-dioxin, 1,2,3,6,7,8-	

* - Indicates preferred synonym for this chemical.

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CAS Number	SCDM Name	Synonym Name
019408-74-3	Hexachlorinated dibenzo-p-dioxin, 1,2,3,7,8,9-	
070648-26-9	Hexachlorinated dibenzofuran, 1,2,3,4,7,8-	
057117-44-9	Hexachlorinated dibenzofuran, 1,2,3,6,7,8-	
072918-21-9	Hexachlorinated dibenzofuran, 1,2,3,7,8,9-	
060851-34-5	Hexachlorinated dibenzofuran, 2,3,4,6,7,8-	
000118-74-1	Hexachlorobenzene	*Perchlorobenzene
000087-68-3	Hexachlorobutadiene	*Perchlorobutadiene
000319-84-6	Hexachlorocyclohexane, alpha-	*alpha-BHC
000319-85-7	Hexachlorocyclohexane, beta-	*beta-BHC
000319-86-8	Hexachlorocyclohexane, delta-	*BHC-delta
000077-47-4	Hexachlorocyclopentadiene	*Perchlorocyclopentadiene
000067-72-1	Hexachloroethane	*Perchloroethane
000070-30-4	Hexachlorophene	*Methylene bis (3,4,6-trichlorophenol), 2,2-
000110-54-3	Hexane	
000591-78-6	Hexanone, 2-	
000302-01-2	Hydrazine	*Diamine
007647-01-0	Hydrochloric acid	*Muriatic acid
000074-90-8	Hydrogen cyanide	*Hydrocyanic acid
007783-06-4	Hydrogen sulfide	*Hydrosulfuric acid
000193-39-5	Indeno(1,2,3-cd)pyrene	
001689-83-4	Ioxynil	*Hydroxy-3,5-diiodo-benzonitrile, 4-
007439-89-6	Iron	
014681-59-5	Iron 55 (radionuclide)	
000078-83-1	Isobutanol	*Isobutyl alcohol
000078-59-1	Isophorone	*Trimethyl-2-cyclohexen-1-one, 3,5,5-
000143-50-0	Kepone	*Chlordecone
007439-92-1	Lead	
014255-04-0	Lead 210(+D) (radionuclide)	
000058-89-9	Lindane	*Hexachlorocyclohexane- gamma
007439-95-4	Magnesium	
000121-75-5	Malathion	
000108-31-6	Maleic anhydride	*Furandione, 2,5-
000123-33-1	Maleic hydrazide	*Dihydro-3,6-pyridazinedione, 1,2-
007439-96-5	Manganese	
013966-31-9	Manganese 54 (radionuclide)	
007439-97-6	Mercury	
000126-98-7	Methacrylonitrile	*Methyl-2-propanenitrile, 2-
000067-56-1	Methanol	*Methyl alcohol
016752-77-5	Methomyl	*Ethanimidothioic acid, n-
000072-43-5	Methoxychlor	*(2,2,2-trichloroethylidiene)bis(4-methoxy-benzene), 1,1'-
000079-22-1	Methyl chlorocarbonate	*Carbonochloridic acid, methyl ester
000078-93-3	Methyl ethyl ketone	*Butanone

* - Indicates preferred synonym for this chemical.

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CAS Number	SCDM Name	Synonym Name
000108-10-1	Methyl isobutyl ketone	*Methyl-2-pentanone, 4-
000080-62-6	Methyl methacrylate	*Methyl-2-propenoic acid, methyl ester, 2-
000056-49-5	Methylcholanthrene, 3-	
000101-14-4	Methylene bis (2-chloroaniline), 4,4-	*Methylene bis (2-chloro-benzeneamine), 4,4'-
000074-95-3	Methylene bromide	
000075-09-2	Methylene chloride	*Dichloromethane
000101-68-8	Methylenediphenyl diisocyanate, 4,4-	
000091-57-6	Methylnaphthalene, 2-	Methylnaphthalene, 2-
021087-64-9	Metribuzin	
002385-85-5	Mirex	*Dechlorane
007439-98-7	Molybdenum	
000621-64-7	N-nitroso-di-n-propylamine	
000100-75-4	N-nitrosopiperidine	
000091-20-3	Naphthalene	*Tar camphor
000091-59-8	Naphthylamine	
007440-02-0	Nickel	
014336-70-0	Nickel 59 (radionuclide)	
013981-37-8	Nickel 63 (radionuclide)	
007697-37-2	Nitric acid	*Hydrogen nitrate
010102-43-9	Nitric oxide	*Nitrogen oxide
000088-74-4	Nitroaniline, 2-	
000099-09-2	Nitroaniline, 3-	
000100-01-6	Nitroaniline, p-	*Benzeneamine, 4-nitro-
000098-95-3	Nitrobenzene	*Nitrobenzol
010102-44-0	Nitrogen dioxide	*Nitrogen oxide
000055-63-0	Nitroglycerine	*Propanetriol, trinitrate, 1,2,3-
000088-75-5	Nitrophenol, 2-	
000100-02-7	Nitrophenol, 4-	*Hydroxynitrobenzene, 4-
000079-46-9	Nitropropane, 2-	
000924-16-3	Nitroso-di-n-butylamine, N-	*Butyl-n-nitroso-1-butanamine, n-
000615-53-2	Nitroso-di-n-methylurethane, N-	*Methylnitroso-carbamic acid, ethyl ester
001116-54-7	Nitrosodiethanolamine, N-	*(nitrosoimino) bis-ethanol, 2,2'-
000055-18-5	Nitrosodiethylamine, N-	*Ethyl-n-nitroso-ethanamine, n-
000062-75-9	Nitrosodimethylamine, N-	*Methyl-n-nitroso-methanomine, n-
000086-30-6	Nitrosodiphenylamine, N-	*Nitrosophenylbenzeneamine, n-
010595-95-6	Nitrosomethylethylamine	
000930-55-2	Nitrosopyrrolidine, N-	*Nitrosopyrrolidine, 1-
000099-99-0	Nitrotoluene, 4-	*Methylnitrobenzene, p-
000152-16-9	Octamethylpyrophosphoramide	
000108-60-1	Oxybis (1-chloropropane), 2,3'-	
000056-38-2	Parathion, ethyl-	*Diethyl 4-nitrophenyl phosphorothionate
000298-00-0	Parathion, methyl-	*Dimethyl p-nitrophenyl thiophosphate

* - Indicates preferred synonym for this chemical.

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CAS Number	SCDM Name	Synonym Name
001336-36-3	PCBs	*Polychlorinated biphenyls
040321-76-4	Pentachlorinated dibenzo-p-dioxin, 1,2,3,7,8-	
109719-77-9	Pentachlorinated dibenzofuran, 1,2,3,7,8-	
057117-41-6	Pentachlorinated dibenzofuran, 2,3,4,7,8-	
000608-93-5	Pentachlorobenzene	
000076-01-7	Pentachloroethane	*Pentalin
000082-68-8	Pentachloronitrobenzene	
000087-86-5	Pentachlorophenol	
000085-01-8	Phenanthrene	*Phenanthren
000108-95-2	Phenol	*Phenyl alcohol
000139-66-2	Phenyl sulfide	
000108-45-2	Phenylenediamine, m-	
000062-38-4	Phenylmercuric acetate	*acetoxyphenylmercury
000298-02-2	Phorate	
000075-44-5	Phosgene	*Carbonic dichloride
013171-21-6	Phosphamidon	
007803-51-2	Phosphine	*Hydrogen phosphide
002104-64-5	Phosphonodithioic acid, phenyl-o-ethyl-o-(4-nitrophenyl)este	*EPN
007664-38-2	Phosphoric acid	
007723-14-0	Phosphorous (elemental)	*Phosphorous, white
000085-44-9	Phthalic anhydride	*Benzenedicarboxylic anhydride, 1,2-
007440-07-5	Plutonium	
015411-92-4	Plutonium 236 (radionuclide)	
013981-16-3	Plutonium 238 (radionuclide)	
015117-48-3	Plutonium 239 (radionuclide)	
014119-33-6	Plutonium 240 (radionuclide)	
014119-32-5	Plutonium 241(+D) (radionuclide)	
013982-10-0	Plutonium 242 (radionuclide)	
015706-37-3	Plutonium 243 (radionuclide)	
014119-34-7	Plutonium 244(+D) (radionuclide)	
012642-23-8	Polychlorinated triphenyl	PCT Aroclor 5442
007440-09-7	Potassium	
013966-00-2	Potassium 40 (radionuclide)	
000506-61-6	Potassium silver cyanide	*Potassium dicyanoargentate
023950-58-5	Pronamide	*Dichloro-N-(1,1-dimethylpropynyl)benzamide, 3,5-
000129-00-0	Pyrene	*Benzo(def)phenanthrene
000110-86-1	Pyridine	*Azobenzene
000091-22-5	Quinoline	*Benzopyridine
007440-14-4	Radium	
013982-63-3	Radium 226(+D) (radionuclide)	
015262-20-1	Radium 228(+D) (Radionuclide)	

* - Indicates preferred synonym for this chemical.

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CAS Number	SCDM Name	Synonym Name
010043-92-2	Radon	
014859-67-7	Radon 222(+D) (radionuclide)	
000108-46-3	Resorcinol	*Benzenediol, 1,3-
000299-84-3	Ronnel	*Dimethyl o-(2,4,5-trichlorophenyl)thiophosphate, o,o-
000094-59-7	Safrole	
007782-49-2	Selenium	
000630-10-4	Selenourea	*Carbamidodselenoic acid
007440-22-4	Silver	
014391-65-2	Silver 108m(+D) (radionuclide)	
014391-76-5	Silver 110m (radionuclide)	
000506-64-9	Silver Cyanide	
007440-23-5	Sodium	
013966-32-0	Sodium 22 (radionuclide)	
007440-24-6	Strontium	
014158-27-1	Strontium 89 (radionuclide)	
010098-97-2	Strontium 90(+D) (radionuclide)	
000057-24-9	Strychnine	
000100-42-5	Styrene	*Vinylbenzene
007664-93-9	Sulfuric acid	
000093-80-1	TB, 2,4,5-	*Butanoic acid, 4-(2,4,5-trichlorophenoxy)-
001746-01-6	TCDD	*Tetrachlorodibenzo-p-dioxin, 2,3,7,8-
		2,3,7,8-Tetrachlorodibenzo-p-dioxin
000095-94-3	Tetrachlorobenzene, 1,2,4,5-	*Tetrachlorobenzene, s-
051207-31-9	Tetrachlorodibenzofuran, 2,3,7,8-	
000630-20-6	Tetrachloroethane, 1,1,1,2-	
000079-34-5	Tetrachloroethane, 1,1,2,2-	*Acetylene tetrachloride
000127-18-4	Tetrachloroethylene	*Tetrachloroethylene
000058-90-2	Tetrachlorophenol, 2,3,4,6-	
000078-00-2	Tetraethyl lead	
003689-24-5	Tetraethyldithiopyrophosphate	*Dithiofos
000109-99-9	Tetrahydrofuran	*Epoxybutane, 1,4-
007440-28-0	Thallium	
013968-51-9	Thallium 204 (radionuclide)	
000062-56-6	Thiourea	*Thio-carbamide
000137-26-8	Thiram	*Bis(dimethylthiocarbamyl)disulfide
015623-47-9	Thorium 227 (radionuclide)	
014274-82-9	Thorium 228(+D) (radionuclide)	
015594-54-4	Thorium 229(+D) (radionuclide)	
014269-63-7	Thorium 230 (radionuclide)	
014932-40-2	Thorium 231 (radionuclide)	
007440-29-1	Thorium 232 (radionuclide)	*Thorium 232
015065-10-8	Thorium 234 (radionuclide)	

* - Indicates preferred synonym for this chemical.

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CAS Number	SCDM Name	Synonym Name
000108-88-3	Toluene	*Methyl benzene
000584-84-9	Toluene diisocyanate	*Benzene, 2,4-diisocyano-1-methyl-
000095-80-7	Toluenediamine, 2,4-	
000095-53-4	Toluidine, o-	
000106-49-0	Toluidine, p-	
008001-35-2	Toxaphene	*Chlorinated camphene
000093-72-1	TP, 2,4,5-	*Silvex
000075-25-2	Tribromomethane	*Bromoform
000076-13-1	Trichloro-1,2,2-Trifluoroethane, 1,1,2-	*Freon 113
000120-82-1	Trichlorobenzene, 1,2,4-	
000071-55-6	Trichloroethane, 1,1,1-	*Methyl chloroform
000079-00-5	Trichloroethane, 1,1,2-	*Vinyl trichloride
000079-01-6	Trichloroethylene	*Trichloroethene
000075-69-4	Trichlorofluoromethane	*Freon 11
000933-78-8	Trichlorophenol, 2,3,5-	
000933-75-5	Trichlorophenol, 2,3,6-	
000095-95-4	Trichlorophenol, 2,4,5-	*TCP
000088-06-2	Trichlorophenol, 2,4,6-	
000609-19-8	Trichlorophenol, 3,4,5-	
000093-76-5	Trichlorophenoxyacetic acid, 2,4,5-	*2,4,5-T
000096-18-4	Trichloropropane, 1,2,3-	
000102-71-6	Triethanolamine	*Nitrilotriethanol, 2,2,2-
001582-09-8	Trifluralin	
000099-35-4	Trinitrobenzene, 1,3,5-	
000118-96-7	Trinitrotoluene	*Methyl-1,3,5-trinitrobenzene, 2-
000126-72-7	Tris (2,3-dibromopropyl) phosphate	
010028-17-8	Tritium	
014158-29-3	Uranium 232 (radionuclide)	
013968-55-3	Uranium 233 (radionuclide)	
013966-29-5	Uranium 234 (radionuclide)	
015117-96-1	Uranium 235(+D) (radionuclide)	
013982-70-2	Uranium 236(+D) (radionuclide)	
007440-61-1	Uranium 238(+D) (radionuclide)	*Uranium 238
007440-62-2	Vanadium	
001314-62-1	Vanadium pentoxide	*Vanadium oxide
000108-05-4	Vinyl acetate	*Acetic acid, vinyl ester
000075-01-4	Vinyl chloride	*Chloroethene
000081-81-2	Warfarin	*Coumafen
000108-38-3	Xylene, m-	*Dimethyl benzene, 1,3-
000095-47-6	Xylene, o-	*Methyltoulene, o-
000106-42-3	Xylene, p-	*Dimethylbenzene, 1,4-
007440-66-6	Zinc	

* - Indicates preferred synonym for this chemical.

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CAS Number	SCDM Name	Synonym Name
013982-39-3	Zinc 65 (radionuclide)	
000557-21-1	Zinc cyanide	
001314-84-7	Zinc phosphide	
007733-02-0	Zinc sulfate	*Sulfuric acid, zinc salt

* - Indicates preferred synonym for this chemical.

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