

AIR TOXICS INFORMATION CLEARINGHOUSE



Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

STAPPA / ALAPCO

State and Territorial Air Pollution Program Administrators
Association of Local Air Pollution Control Officials

Ongoing Research and Regulatory Development Projects

March 1985

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AIR TOXICS INFORMATION CLEARINGHOUSE:
ONGOING RESEARCH AND REGULATORY DEVELOPMENT PROJECTS

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DISCLAIMER

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PREFACE

The EPA has focused most of its past efforts in the control of air toxics on the Clean Air Act (CAA) Section 112 National Emission Standards for Hazardous Air Pollutants (NESHAP) program. The amount of time involved for Section 112 listing and eventual control is extensive. Despite this fact, the public is concerned over continuing exposure to potentially toxic air pollutants. The resultant public pressure has had an impact such that many state and local agencies have developed or are now actively developing regulatory programs apart from Federal activities.

In response to state and local agency requests for assistance in information exchange, EPA has designed and is implementing an information dissemination center, known as the Air Toxics Information Clearinghouse. It has been designed and is being implemented in close coordination with the State and Territorial Air Pollution Program Administrators (STAPPA) and the Association of Local Air Pollution Control Officials (ALAPCO).

The purpose of this document, published by the Air Toxics Information Clearinghouse, is to inform state and local policy makers of current research and regulatory development projects underway at EPA and the National Institute of Occupational Safety and Health (NIOSH), and to help them identify sources of specific air toxic information. Every effort has been made to ensure accuracy as of December 1984, the date that compilation of information was completed. However, Agency policies, priorities, and funding levels reflected by the projects listed in this document may change affecting estimated project completion dates and whether or not regulatory actions are finally taken.

This document is an update of the first Air Toxics Information Clearinghouse ongoing research document, which was published in March 1984. The Clearinghouse currently plans to update this document on a regular basis. Other documents published by the Clearinghouse include:

- Air Toxics Information Clearinghouse: Bibliography of Selected EPA Reports and Federal Register Notices - January 1985
- Air Toxics Information Clearinghouse: Selected Bibliography of Health Effects and Risk Assessment Information - July 1984

- Air Toxics Information Clearinghouse: Interim Report of Selected Information on State and Local Agency Air Toxics Activities - September 1984
- Air Toxics Information Clearinghouse Newsletter, Vol. 1, No. 1-5, Vol. 2, No. 1-2 - December 1983, February 1984, April 1984, July 1984, September 1984, December 1984, and February 1985.

ABSTRACT

An Air Toxics Information Clearinghouse is being established by EPA's Office of Air Quality Planning and Standards for the purpose of facilitating information transfer among state, local, and Federal air quality management agencies. This document has been published as part of that effort. The purpose is to inform state and local policy makers and other Clearinghouse users of EPA and NIOSH research and EPA regulatory development projects concerning noncriteria air pollutants.

The document is divided into four parts and an appendix. The first part lists 240 air toxics projects currently in progress at EPA and NIOSH. A brief description of each project and a contact name and office are given. The second part of the document contains indices allowing readers to locate projects of interest. Indices are ordered by project type, chemical name, CAS number, and air pollution source type. The third part is a listing of synonyms for chemical names and associated CAS numbers. The fourth part lists other published sources of information on current Federal government toxics research. The appendix lists regulatory development projects on toxic chemicals underway at EPA's Office of Drinking Water (ODW). While most of these projects are not directly related to air problems, health information on toxic chemicals from ODW projects may be of interest to Clearinghouse users.

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INTRODUCTION

This list of ongoing research and regulatory development activities has been compiled by the Air Toxics Information Clearinghouse as one of several tools designed to facilitate information exchange on air toxics. About 240 ongoing projects concerning noncriteria pollutants which have been funded by the U. S. Environmental Protection Agency (EPA) and the National Institute for Occupational Safety and Health (NIOSH) are listed. The EPA or NIOSH office and a contact name is provided for each project. To facilitate use of this document, the projects are indexed by project type, chemical name, Chemical Abstracts Services (CAS) registry number, and air pollution source type.

This document is designed to help state and local agency Clearinghouse users identify sources of information for specific air toxics questions or problems. It is an updated version of the March 1984 Clearinghouse "Ongoing Research and Regulatory Development Projects" document. The list of projects contained in this document focuses on studies which have not yet resulted in publicly available reports, and indicates when the work is scheduled for completion as well as a contact person who can provide study details. In future updates of this document, new projects will be added, and the dates and names previously provided will be updated as required. New projects which have been added since the 1984 edition of this document are marked with an asterisk (*). Projects which have been completed since the last edition have been removed. Some of these projects resulted in published reports which are listed in the January 1985 Clearinghouse publication "Bibliography of Selected EPA Reports and Federal Register Notices", or the July 1984 "Selected Bibliography of Health Effects and Risk Assessment Information".

DOCUMENT SCOPE

Twelve types of projects which are considered to be of greatest interest to agencies concerned with the regulation of noncriteria air pollutants are included in this compilation. Both basic scientific research and studies conducted to assess the need for regulations and/or to support regulations development have been included. However, this should not be taken to mean that Federal regulations necessarily will be developed for sources and substances covered by these projects. The 12 categories of projects are briefly defined below.

1. CHIPs - Chemical Hazard Information Profiles - In these studies, EPA's Office of Toxic Substances (OTS) compiles preliminary information about sources, environmental distribution, exposure and health effects of specific chemicals.
2. Emission Factor Documents - Primarily funded by the Monitoring and Data Analysis Division, Office of Air Quality Planning and Standards (OAQPS), these projects are examining the sources and emissions of specific pollutants.

3. Epidemiology - NIOSH-funded epidemiology studies on noncriteria air pollutants.
4. Exposure Assessments - EPA-funded projects to estimate the population exposed to ambient concentrations of specific chemicals.
5. Health Assessments - Projects funded by EPA's Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office to compile information on health effects of specific chemicals.
6. Monitoring, Sampling, and Analysis - Projects funded by EPA laboratories to develop methodologies for monitoring and sampling hazardous air pollutants.
7. NESHAP - OAQPS projects to develop background information documents (BID) to support National Emission Standards for Hazardous Air Pollutants (NESHAP) under Section 112 of the Clean Air Act. These documents contain the following types of information: a description of the affected industry or air pollution source including emissions data and applicable control techniques; an analysis of regulatory alternatives in terms of potential environmental, economic, and energy impacts; and a health appendix including an exposure assessment and a risk assessment.
8. NSPS - 111(d) - OAQPS projects to prepare background information documents to support new source performance standards (NSPS) for sources of certain hazardous pollutants under Section 111(d) of the Clean Air Act. These documents include the following types of information: a description of the affected industry or air pollution source including emissions data and applicable control techniques, and an analysis of regulatory alternatives in terms of potential environmental, economic, and energy impacts.
9. Pre-Regulatory Assessments - Projects funded by the Pollutant Assessment Branch of OAQPS which include reviewing the health effects, sources, emissions to the ambient air, and public exposure to specific pollutants in order to decide whether these pollutants should be regulated under the Clean Air Act.
10. Risk Assessments - Projects funded by EPA's Office of Health and Environmental Assessment and EPA research laboratories to estimate human risks from hazardous air pollutants.
11. Source Assessments - EPA projects to identify and quantify emissions from specific source categories and to evaluate applicable control technologies.

12. Toxicology - Animal toxicology testing projects funded by EPA research laboratories and NIOSH.

The following EPA offices were contacted for lists of projects within these 12 categories:

- Office of Air Quality Planning and Standards,
- Office of Health and Environmental Assessment,
- Office of Pesticides and Toxic Substances,
- Office of Solid Waste and Emergency Response, and
- Office of Research and Development.

The National Institute of Occupational Safety and Health (NIOSH) under the Department of Health and Human Services was also contacted. In selecting projects from these lists, emphasis was placed on projects dealing with noncriteria air pollutants which belong to the categories listed above. The Office of Drinking Water (ODW) projects have been listed in the appendix. While not specifically air related, health information on toxic pollutants resulting from ODW projects may be helpful to Clearinghouse users.

Several compilations of ongoing research and regulatory development projects on potentially toxic chemicals (not necessarily air pollutants) have been identified in Part 4 of this document. These sources can be used to supplement this compilation.

USING THIS DOCUMENT

This document has been divided into four parts and an appendix. Part 1 contains individual entries for 240 ongoing research and regulatory development projects. The entries are listed by the organization conducting the work in the following order:

- EPA offices,
- EPA laboratories, and
- NIOSH.

Project entries are numbered sequentially throughout Part 1. Each entry generally contains the following elements:

- Chemical Abstract Services (CAS) Registry Number,
- Chemical Name,
- Air Pollution Source,
- Project Type,
- Status of Project, and
- Contact Office and Name.

The first three elements may not be applicable to all entries. For example, projects which deal with groups of chemicals such as "organic

compounds" or "heavy metals" rather than specific pollutants cannot be assigned CAS numbers. The term "various" has been used in these cases. In some projects dealing with specific source categories, lists of chemicals emitted are not yet available, so "various" has been used under Chemical Name. Other chemical-specific projects may not deal with specific air pollution sources. In these cases, the Air Pollution Source element of the entry has been omitted. Wherever possible, an effort has been made to list the specific chemical name(s), CAS registry number(s), and/or source type(s) for each project.

If a project clearly falls into one of the 12 categories previously listed, only that one project type is listed in the entry. While there is often overlap between the kinds of information included in these categories, the project type identified reflects the primary emphasis of the project. Where it was difficult to select the single most appropriate project type, more than one is listed.

The Status of Project element contains the date the project is expected to be completed or published. The month and year is given if available, otherwise the fiscal year of expected completion is provided. Since most NIOSH projects are long term projects, journal articles on various phases of a project may be published before the overall project completion date shown in the entry. In the case of emissions standards projects (NESHAPs and NSPS), the entry indicates whether the standard is currently in the proposal or promulgation stage, since separate background information documents are made publicly available after each stage.

The last element in each project entry lists the office doing the work and the name of the project officer or other knowledgeable contact. Abbreviations used for the offices and the telephone number for each office are included at the end of this introduction.

Part 2 of the document consists of four indices: a project type index, CAS number index, chemical name index, and source type index. These indices allow users to locate projects pertaining to a specific chemical, source, or type of information.

The project type index lists the 12 project types in alphabetical order. Under each project type, the entry numbers and titles of all relevant projects are listed. If an entry contains more than one project type, it is listed in the index under each applicable project type.

The other three indices follow the same format as the project type index. Only those chemical names, CAS numbers, and sources used in the 240 project descriptions are used in these indices.

A list of synonyms for chemical names is included as Part 3 of this document. This will allow users who know a chemical by a different name than the one listed in the index to locate information on the chemical. The

synonym list is organized in two ways. First, in Part A, there is a listing of each CAS number applicable to the 240 projects. Under the CAS number is a list of chemical name synonyms. In Part B, all chemical name synonyms appearing in Part A are listed in alphabetical order followed by the appropriate CAS number.

The final part of the document, Part 4, lists other published sources of information on ongoing air toxics research giving abstracts of these publications and ordering information. It was impossible to include all potentially useful toxicology projects in this report due to space limitations. However the National Toxicology Program (NTP) publishes lists of toxicology research projects underway at EPA, the Department of Health and Human Services, and the Department of Energy. The EPA Chemical Activities Status Report and the Manager's Guide to EPA Activities on Toxic and Hazardous Chemicals, also published periodically, list ongoing EPA projects on specific chemicals, including research and regulation under water, air, solid waste, and toxic substances legislation.

Regulatory development projects underway at the EPA Office of Drinking Water (ODW) are summarized in the appendix. While these projects are not specifically air related, Clearinghouse users may find toxic chemical information generated by ODW useful. For example, background documents for setting Maximum Contaminant Levels under the Safe Drinking Water Act contain health information on toxic chemicals; and many chemicals being studied by ODW are also potential air pollutants. The appendix contains a brief description of ODW regulatory development activities and lists of chemicals currently under study.

Keys to Abbreviations Used in this Document.

Abbreviation for Office/Division/Branch	Name	Telephone
1) Environmental Protection Agency (EPA) Offices		
OAQPS/	Office Air Quality Planning and Standards, Research Triangle Park, NC	
ESED/	Emission Standards and Engineering Division	(919)541-5571
SDB	Standards Development Branch	(919)541-5578
CPB	Chemicals and Petroleum Branch	(919)541-5671
MDAD/	Monitoring and Data Analysis Division	(919)541-5536
AMTB	Air Management Technology Branch	(919)541-5586
RPO	Regional Programs Office	(919)541-5555
SASD/	Strategies and Air Standards Division	(919)541-5504
PAB	Pollutant Assessment Branch	(919)541-5645
OERR/	Office of Emergency, and Remedial Response, Washington, DC	(202)382-2180
HSC	Hazardous Site Control	(202)382-4485
OHEA/	Office of Health and Environ- mental Assessment, Washington, DC	(202)382-7317
CAG	Carcinogen Assessment Group	(202)382-7309
ECAO-RTP	Environmental Criteria and Assessment Office, Research Triangle Park, NC	(919)541-4173
ECAO-Ci	Environmental Criteria and Assessment Office, Cincinnati, OH	(513)684-7531

Abbreviation for Office/Division/Branch	Name	Telephone
EAG	Exposure Assessment Group	(202)475-8909
REAG	Reproductive Effects Assessment Group	(202)382-7336
OTS/	Office of Toxic Substances, Washington, DC	
A/	Assessment Division	(202)382-3442
CSB	Chemical Screening Branch	(202)382-3507
ORP/	Office of Radiation Programs, Washington, DC	
CSD/	Criteria and Standards Division	(202)557-0704
ESB	Environmental Standards Branch	(202)557-8977
ORD/	Office of Research and Development, Washington, DC	
OHR	Office of Health Research	(202)382-5900
EMSL-RTP	Environmental Monitoring and Support Laboratory, Research Triangle Park, NC	(919)541-2106
ASRL-RTP	Atmospheric Sciences Research Laboratory, Research Triangle Park, NC	(919)541-2191
HERL-RTP	Health Effects Research Laboratory, Research Triangle Park, NC	(919)541-2281
AEERL-RTP	Air and Energy Engineering Research Laboratory, Research Triangle Park, NC	(919)541-2821
HWERL-Ci	Hazardous Waste Engineering Research Laboratory, Cincinnati, OH	(513)684-7696

Abbreviation for Office/Division/Branch	Name	Telephone
HWERL-Edi	Hazardous Waste Engineering Research Laboratory, Edison, NJ	(201)321-6633
Kerr Lab	EPA/Kerr Laboratory, Ada, OK	(405)332-8800

2) National Institute For Occupational Safety and Health (NIOSH) Offices

DBBS/	Division of Biomedical and Behavioral Sciences, Cincinnati, OH	(513)684-8465
APEB	Applied Physiology and Ergonomics Branch	(513)684-8383
ETB	Experimental Toxicology Branch	(513)684-8394
TSB	Technical Support Branch	(513)684-8433
DRDS/	Division of Respiratory Disease Studies, Morgantown, WV	(304)291-4474
LIB	Laboratory Investigations Branch	(304)291-4518
CIB	Clinical Investigations Branch	(304)291-4755
ENIB	Environmental Investigations Branch	(304)291-4474
EPIB	Epidemiology Investigations Branch	(304)291-4476
DSHEFS/	Division of Surveillance, Hazard Evaluations, and Field Studies, Cincinnati, OH	(513)684-8235
IWSB	Industry Wide Studies Branch	(513)684-4203
SB	Surveillance Branch	(513)684-4303

PART 1
LIST OF ONGOING PROJECTS

1. CAS NO: 71-43-2
CHEMICAL: Benzene
SOURCE: Coke Ovens; Coke Byproduct Recovery Plants
PROJECT TYPE: NESHAP
TITLE: Coke Ovens/Byproduct Plants (Benzene) NESHAP
STATUS: Proposed 6/6/84; Awaiting Promulgation
CONTACT: OAQPS/ESED/SDB, G. Wood
2. CAS NO: Various
CHEMICAL: Coke Oven Emissions
SOURCE: Coke Ovens, Wet-Coal Charged
PROJECT TYPE: NESHAP
TITLE: Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP
STATUS: Proposal FY 85
CONTACT: OAQPS/ESED/SDB, R. Ajax
3. CAS NO: 75-01-4
CHEMICAL: Vinyl Chloride
SOURCE: Ethylene Dichloride-Vinyl Chloride Plants; Polyvinylchloride Plants; Chemical Industry
PROJECT TYPE: NESHAP
TITLE: Vinyl Chloride NESHAP Revision
STATUS: Proposal 1/85
CONTACT: OAQPS/ESED/SDB, F. Dimmick
4. CAS NO: 127-18-4; 79-01-6; 71-55-6; 75-09-2; 76-13-1
CHEMICAL: VOC; Perchloroethylene; Trichloroethylene; 1,1,1-Trichloroethane; Methylene Chloride; Trichlorotrifluoroethane
SOURCE: Degreasing Operations; Organic Solvent Cleaners
PROJECT TYPE: NSPS-111(d)
TITLE: Organic Solvent Cleaning 111(d) NSPS
STATUS: Proposed 6/11/80; Amended 4/21/81; Awaiting Promulgation
CONTACT: OAQPS/ESED/SDB, F. Porter
5. CAS NO: 7440-38-2
CHEMICAL: Arsenic (Inorganic)
SOURCE: Glass Manufacturing Plants
PROJECT TYPE: NESHAP
TITLE: Glass Manufacturing (Arsenic) NESHAP
STATUS: Proposed 7/20/83; Awaiting Promulgation
CONTACT: OAQPS/ESED/SDB, L. Chaput
6. CAS NO: 7440-38-2
CHEMICAL: Arsenic (Inorganic)
SOURCE: Primary Copper Smelters; Smelters
PROJECT TYPE: NESHAP
TITLE: High Arsenic Copper Smelters NESHAP
STATUS: Proposed 7/20/83; Awaiting Promulgation
CONTACT: OAQPS/ESED/SDB, L. Chaput
7. CAS NO: 7440-38-2
CHEMICAL: Arsenic (Inorganic)
SOURCE: Primary Copper Smelters; Smelters
PROJECT TYPE: NESHAP
TITLE: Low Arsenic Copper Smelters NESHAP
STATUS: Proposed 7/20/83; Awaiting Promulgation
CONTACT: OAQPS/ESED/SDB, L. Chaput
8. CAS NO: 1332-21-4
CHEMICAL: Asbestos
SOURCE: Construction Industry; Demolition
PROJECT TYPE: NESHAP
TITLE: Asbestos NESHAP Revision
STATUS: Proposal 5/85
CONTACT: OAQPS/ESED/SDB, L. Chaput
9. CAS NO: 7440-41-7
CHEMICAL: Beryllium
SOURCE: Extraction Plants; Ceramic Plants; Foundries; Incinerators; Propellant Plants; Machining Operations
PROJECT TYPE: NESHAP
TITLE: Beryllium NESHAP Review
STATUS: Promulgated 4/6/73; Review FY 85
CONTACT: OAQPS/ESED/SDB, D. Byrne
10. CAS NO: Various
CHEMICAL: Mercury
SOURCE: Ore Processing; Chlor-alkali Manufacturing; Chemical Industry
PROJECT TYPE: NESHAP
TITLE: Mercury NESHAP Revision
STATUS: Proposal FY 85
CONTACT: OAQPS/ESED/SDB, G. Wood
11. CAS NO: * 7440-47-3
CHEMICAL: Chromium
PROJECT TYPE: NESHAP
TITLE: Chromium NESHAP
STATUS: Proposal FY 86
CONTACT: OAQPS/ESED/SDB, J. Crowder
12. CAS NO: * 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Source Assessment
TITLE: Preliminary Study of Sources of Ethylene Oxide
STATUS: Publish 4/85
CONTACT: OAQPS/ESED/CPB, D. Markwordt
13. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Monitoring, Sampling, and Analysis; Source Assessment
TITLE: Process Sampling and Emission Model Development for Hazardous Waste Treatment, Storage, and Disposal Facility Area Source Air Emissions
STATUS: In Progress FY 85
CONTACT: OAQPS/ESED/CPB, K. Hustvedt
14. CAS NO: 71-43-2
CHEMICAL: Benzene; Gasoline Vapors
SOURCE: Gasoline Marketing
PROJECT TYPE: Exposure Assessment
TITLE: Exposure Assessment for Benzene from Gasoline Marketing Sources
STATUS: In Progress FY 85
CONTACT: OAQPS/ESED/CPB, J. Weigold

15. CAS NO: 106-89-8
CHEMICAL: Epichlorohydrin
PROJECT TYPE: Emission Factor Document;
Source Assessment
TITLE: Locating and Estimating Air
Emissions from Sources of
Epichlorohydrin
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
16. CAS NO: 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Emission Factor Document;
Source Assessment
TITLE: Locating and Estimating Air
Emissions from Sources of
Ethylene Oxide
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
17. CAS NO: 75-44-5
CHEMICAL: Phosgene
PROJECT TYPE: Emission Factor Document;
Source Assessment
TITLE: Locating and Estimating Air
Emissions from Sources of
Phosgene
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
18. CAS NO: 7439-96-5
CHEMICAL: Manganese
PROJECT TYPE: Emission Factor Document;
Source Assessment
TITLE: Locating and Estimating Air
Emissions from Sources of
Manganese
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
19. CAS NO: Various
CHEMICAL: Chlorobenzenes
PROJECT TYPE: Emission Factor Document;
Source Assessment
TITLE: Locating and Estimating Air
Emissions from Sources of
Chlorobenzenes
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
20. CAS NO: 1336-36-3
CHEMICAL: Polychlorinated Biphenyls (PCB)
PROJECT TYPE: Emission Factor Document;
Source Assessment
TITLE: Locating and Estimating Air
Emissions from Sources of PCB
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
21. CAS NO: 75-35-4
CHEMICAL: Vinylidene Chloride
PROJECT TYPE: Emission Factor Document;
Source Assessment
TITLE: Locating and Estimating Air
Emissions from Sources of
Vinylidene Chloride
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
22. CAS NO: * Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Risk Assessment; Exposure
Assessment
TITLE: The Magnitude and Nature of the
Air Toxics Problem in the
United States
STATUS: Publish Final Version 2/85
CONTACT: OAQPS/RPO, B. Steigerwald
23. CAS NO: * 56-23-5
CHEMICAL: Carbon Tetrachloride
PROJECT TYPE: Source Assessment
TITLE: Source Assessment for Carbon
Tetrachloride
STATUS: In Progress FY 85
CONTACT: OAQPS/SASD/PAB, B. Lucas
24. CAS NO: * 7440-38-2; 7440-41-7; 7440-43-9;
7440-47-3; 7440-02-0
CHEMICAL: Arsenic; Beryllium; Cadmium;
Chromium; Nickel
SOURCE: Combustion
PROJECT TYPE: Exposure Assessment
TITLE: Estimating Exposure to Arsenic,
Beryllium, Cadmium, Chromium, and
Nickel from Coal and Oil Combustion
STATUS: In Progress FY 85
CONTACT: OAQPS/SASD/PAB, W. Peters
25. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Exposure Assessment; Risk Assessment
SOURCE: Hazardous Waste Facilities
TITLE: Exposure/Risk Assessment on Air
Emissions from Treatment, Storage
and Disposal Facilities
STATUS: Complete FY 87
CONTACT: OAQPS/SASD/PAB, M. Dusetzina
26. CAS NO: * 1746-01-6; Various
CHEMICAL: Dioxins
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Dioxins
Under the Clean Air Act
STATUS: Decision 12/85
CONTACT: OAQPS/SASD/PAB, D. Cleverly
27. CAS NO: * 107-13-1
CHEMICAL: Acrylonitrile
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of
Acrylonitrile Under the
Clean Air Act
STATUS: Decision 2/85
CONTACT: OAQPS/SASD/PAB, B. Schell
28. CAS NO: * 7440-43-9
CHEMICAL: Cadmium
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of
Cadmium Under the Clean Air Act
STATUS: Decision 9/85
CONTACT: OAQPS/SASD/PAB, R. Morrison
29. CAS NO: * 56-23-5
CHEMICAL: Carbon Tetrachloride
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of
Carbon Tetrachloride Under
the Clean Air Act
STATUS: Decision 3/85
CONTACT: OAQPS/SASD/PAB, L. Zaragoza

30. CAS NO: * Various
CHEMICAL: Chlorobenzenes
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Chlorobenzenes Under the Clean Air Act
STATUS: Decision 7/85
CONTACT: OAQPS/SASD/PAB, L. Zaragoza
31. CAS NO: * 76-13-1
CHEMICAL: Chlorofluorocarbon-113
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Chlorofluorocarbon-113 (F-113) Under the Clean Air Act
STATUS: Decision 2/85
CONTACT: OAQPS/SASD/PAB, K. Blanchard
32. CAS NO: * 67-66-3
CHEMICAL: Chloroform
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Chloroform Under the Clean Air Act
STATUS: Decision FY 8/85
CONTACT: OAQPS/SASD/PAB, T. Mohin
33. CAS NO: * 7440-47-3
CHEMICAL: Chromium
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Chromium Under the Clean Air Act
STATUS: Decision 6/85
CONTACT: OAQPS/SASD/PAB, K. Blanchard
34. CAS NO: * 107-06-2
CHEMICAL: Ethylene Dichloride
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Ethylene Dichloride Under the Clean Air Act
STATUS: Decision 10/85
CONTACT: OAQPS/SASD/PAB, L. Zaragoza
35. CAS NO: * 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Ethylene Oxide Under the Clean Air Act
STATUS: Decision 8/85
CONTACT: OAQPS/SASD/PAB, N. Pate
36. CAS NO: * 71-55-6
CHEMICAL: Methyl Chloroform
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Methyl Chloroform Under the Clean Air Act
STATUS: Decision 2/85
CONTACT: OAQPS/SASD/PAB, K. Blanchard
37. CAS NO: * 75-09-2
CHEMICAL: Methylene Chloride
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Methylene Chloride (Dichloromethane) Under the Clean Air Act
STATUS: Decision 12/85
CONTACT: OAQPS/SASD/PAB, K. Blanchard
38. CAS NO: * 7440-02-0
CHEMICAL: Nickel
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Nickel Under the Clean Air Act
STATUS: Decision 10/85
CONTACT: OAQPS/SASD/PAB, M. Dusetzina
39. CAS NO: * 127-18-4
CHEMICAL: Perchloroethylene
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Perchloroethylene (Tetrachloroethylene) Under the Clean Air Act
STATUS: Decision 7/85
CONTACT: OAQPS/SASD/PAB, D. Cleverly
40. CAS NO: * 79-01-6
CHEMICAL: Trichloroethylene
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Trichloroethylene Under the Clean Air Act
STATUS: Decision 7/85
CONTACT: OAQPS/SASD/PAB, J. Vandenberg
41. CAS NO: * 75-35-4
CHEMICAL: Vinylidene Chloride
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Vinylidene Chloride Under the Clean Air Act
STATUS: Decision 2/85
CONTACT: OAQPS/SASD/PAB, N. Pate
42. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment
TITLE: List of Superfund Hazardous Waste Sites with Air Contamination Problems
STATUS: In Progress FY 85
CONTACT: OERR/HSC, J. Gearo
43. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Risk Assessment
TITLE: Guidelines for Carcinogen Risk Assessment
STATUS: Proposed 11/84; Review in Progress FY 85
CONTACT: OHEA/CAG, R. McGaughy
44. CAS NO: 79-01-6
CHEMICAL: Trichloroethylene
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Trichloroethylene, Revision. External Review
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-RTP, M. Greenberg
45. CAS NO: 127-18-4
CHEMICAL: Tetrachloroethylene
PROJECT TYPE: Health Assessment
TITLE: Health Assessment for Tetrachloroethylene, Revision. External Review
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-RTP, M. Greenberg

<p>46. CAS NO: 7440-41-7 CHEMICAL: Beryllium PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Beryllium. External Review STATUS: Publish Final Version FY 85 CONTACT: OHEA/ECAO-RTP, D. Sivulka</p> <p>47. CAS NO: 75-21-8 CHEMICAL: Ethylene Oxide PROJECT TYPE: Health Assessment TITLE: Health Assessment for Ethylene Oxide. External Review STATUS: Publish Final Version FY 85 CONTACT: OHEA/ECAO-RTP, R. Bruce</p> <p>48. CAS NO: 67-66-3 CHEMICAL: Chloroform PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Chloroform. External Review STATUS: Publish Final Version FY 85 CONTACT: OHEA/ECAO-RTP, S. D. Lee</p> <p>49. CAS NO: 75-09-2 CHEMICAL: Methylene Chloride PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Methylene Chloride. External Review STATUS: Publish Final Version FY 85 CONTACT: OHEA/ECAO-RTP, M. Greenberg</p> <p>50. CAS NO: 107-06-2 CHEMICAL: Ethylene Dichloride PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Ethylene Dichloride. External Review STATUS: Publish Final Version FY 85 CONTACT: OHEA/ECAO-RTP, R. Bruce</p> <p>51. CAS NO: 7440-02-0 CHEMICAL: Nickel PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Nickel STATUS: Publish Revision FY 85 CONTACT: OHEA/ECAO-RTP, D. Sivulka</p> <p>52. CAS NO: 107-02-8 CHEMICAL: Acrolein PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Acrolein STATUS: Publish FY 85 CONTACT: OHEA/ECAO-RTP, W. Ewald</p> <p>53. CAS NO: 126-99-8 CHEMICAL: Chloroprene PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Chloroprene STATUS: Publish FY 85 CONTACT: OHEA/ECAO-RTP, W. Ewald</p> <p>54. CAS NO: Various CHEMICAL: Dioxins PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Dioxins. External Review STATUS: Publish Final Version FY 85 CONTACT: OHEA/ECAO-Ci, D. Mukerjee</p>	<p>55. CAS NO: 108-95-2 CHEMICAL: Phenol PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Phenol. External Review STATUS: In Progress FY 85 CONTACT: OHEA/ECAO-Ci, D. Reisman</p> <p>56. CAS NO: Various CHEMICAL: Chlorobenzenes PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Chlorinated Benzenes. Final Report STATUS: Publish Final Version FY 85 CONTACT: OHEA/ECAO-Ci, W. B. Peirano</p> <p>57. CAS NO: 132-64-9 CHEMICAL: Dibenzofurans PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Dibenzofurans STATUS: In Progress FY 85 CONTACT: OHEA/ECAO-Ci, D. Mukerjee</p> <p>58. CAS NO: * 7440-50-8 CHEMICAL: Copper PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Copper STATUS: In Progress FY 85 CONTACT: OHEA/ECAO-Ci, D. Reisman</p> <p>59. CAS NO: * Various CHEMICAL: Creosols PROJECT TYPE: Health Assessment TITLE: Health Assessment Document for Creosols STATUS: In Progress FY 85 CONTACT: OHEA/ECAO-Ci, D. Reisman</p> <p>60. CAS NO: * Various CHEMICAL: Various PROJECT TYPE: Risk Assessment TITLE: Risk Assessment Guidelines for Chemical Mixtures STATUS: Proposed 1/85; Review in Progress FY 85 CONTACT: OHEA/ECAO-Ci, R. Hertzberg</p> <p>61. CAS NO: * Various CHEMICAL: Various PROJECT TYPE: Exposure Assessment TITLE: Guidelines for Exposure Assessment STATUS: Proposed 11/84; Review in Progress FY 85 CONTACT: OHEA/EAG, J. Falco</p> <p>62. CAS NO: * Various CHEMICAL: Various PROJECT TYPE: Health Assessment; Risk Assessment TITLE: Guidelines for the Health Assessment of Suspect Developmental Toxicants STATUS: Proposed 11/84; Review in Progress FY 85 CONTACT: OHEA/REAG, C. Kimmel</p>
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63. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Risk Assessment
TITLE: Guidelines for Mutagenicity Risk Assessment
STATUS: Proposed 11/84; Review in Progress FY 85
CONTACT: OHEA/REAG, D. Jacobson
64. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Risk Assessment
TITLE: Risk Assessment Guidelines for Systemic Toxicants
STATUS: In Progress FY 85
CONTACT: OHEA, E. Anderson
65. CAS NO: * 78-40-0
CHEMICAL: Triethyl Phosphate
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Triethyl Phosphate
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke
66. CAS NO: * 117-82-8
CHEMICAL: Dimethoxyethyl Phthalate
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Dimethoxyethyl Phthalate
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke
67. CAS NO: * 868-85-9
CHEMICAL: Dimethyl Hydrogen Phosphite
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Dimethyl Hydrogen Phosphite
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke
68. CAS NO: * 60-12-8
CHEMICAL: Phenylethanol
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Phenylethanol
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke
69. CAS NO: * 103-45-7
CHEMICAL: Phenylethanol Acetate
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Phenylethanol Acetate
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke
70. CAS NO: * 85-41-6
CHEMICAL: Phthalimide
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Phthalimide
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke
71. CAS NO: * Various
CHEMICAL: Radionuclides
SOURCES: Phosphorus Plants; Uranium Mines; Mining; Hazardous Waste Facilities; Nuclear Research and Development; Energy Industry; Manufacturing
PROJECT TYPE: NESHAP
TITLE: Radionuclides NESHAP
STATUS: Proposed 4/6/84; Withdrawn 10/31/84; Promulgation 1/85
CONTACT: ORP/CSD/ESB, J. Hardin
72. CAS NO: * 10043-92-2
CHEMICAL: Radon-222
SOURCE: Uranium Mines; Mining
PROJECT TYPE: NESHAP
TITLE: NESHAP for Radon-222 Emissions from Underground Uranium Mines
STATUS: Proposal 2/85
CONTACT: ORP/CSD/ESB, J. Hardin
73. CAS NO: * 10043-92-2
CHEMICAL: Radon-222
SOURCE: Uranium Mines; Mining
PROJECT TYPE: NESHAP
TITLE: NESHAP for Radon-222 Emissions from Licensed Uranium Mines
STATUS: Proposal FY 86
CONTACT: ORP/CSD/ESB, J. Hardin
74. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Evaluation of Thermally Desorbable Passive Sampling Devices
STATUS: Publish FY 85
CONTACT: EMSL-RTP, R. Lewis
75. CAS NO: Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: GC-FTIR Analysis of Ambient Volatile Organic Compounds
STATUS: Publish 4/85
CONTACT: EMSL-RTP, W. McClenny
76. CAS NO: 7440-38-2
CHEMICAL: Arsenic
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Report on Validation Studies of Emission Test Method for Arsenic
STATUS: Publish 6/85
CONTACT: EMSL-RTP, T. Ward
77. CAS NO: Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Evaluation of New Solid Sorbents for Collection of Organic Vapors from Air
STATUS: Publish FY 85
CONTACT: EMSL-RTP, J. Mulik

78. CAS NO: Various
CHEMICAL: Total Reduced Sulfur; Sulfur
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Validation of Method 15 and 15A for Total Reduced Sulfur from Sulfur Recovery Plants
STATUS: Publish FY 85
CONTACT: EMSL-RTP, J. Margeson
79. CAS NO: Various
CHEMICAL: Chromium, Hexavalent
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop Source Test Methods for Hexavalent Chromium
STATUS: Publish FY 85
CONTACT: EMSL-RTP, F. Butler
80. CAS NO: Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Report on Use of Dynamic Impinger as Advanced Screening Technique for Hazardous Organics
STATUS: Publish 9/85
CONTACT: EMSL-RTP, J. Pau
81. CAS NO: Various
CHEMICAL: Polynuclear Aromatic Hydrocarbons
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Luminescence Analysis of Polynuclear Aromatic Compounds in Particulate Matter
STATUS: Publish 8/85
CONTACT: EMSL-RTP, N. Wilson
82. CAS NO: Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Report on Nitrogen-Specific Detector in GC Measurement of Hazardous Organics
STATUS: Publish 6/85
CONTACT: EMSL-RTP, J. Knoll
83. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Evaluation of Portable Photoionizing Analyzer for Separation and Quantification of Air Pollutants
STATUS: Publish 12/85
CONTACT: EMSL-RTP, G. Ortman
84. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Field Test of Cryogenic Ambient Monitor for Volatile Organic Chemicals
STATUS: Complete 3/85
CONTACT: EMSL-RTP, W. McClenny
85. CAS NO: * 1332-21-4
CHEMICAL: Asbestos
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Report of FY-84 Audit Results on Asbestos
STATUS: Publish 2/85
CONTACT: EMSL-RTP, M. Beard
86. CAS NO: * 1332-21-4
CHEMICAL: Asbestos
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Report on Methods Evaluation for Asbestos
STATUS: Publish 12/85
CONTACT: EMSL-RTP, M. Beard
87. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Annual Report of NFAH Trace Element Analysis
STATUS: Publish 2/85
CONTACT: EMSL-RTP, T. Lawless
88. CAS NO: * 1332-21-4
CHEMICAL: Asbestos
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop Sampling and Analysis Method for Asbestos
STATUS: Publish 12/85
CONTACT: EMSL-RTP, R. Fuerst
89. CAS NO: * 75-01-4
CHEMICAL: Vinyl Chloride
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Evaluate Vinyl Chloride Continuous Emission Monitors
STATUS: Complete FY 85
CONTACT: EMSL-RTP, J. Pau
90. CAS NO: * 7440-02-0; Various
CHEMICAL: Nickel
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop Methods for Speciated Nickel
STATUS: Complete 12/85
CONTACT: EMSL-RTP, F. Butler
91. CAS NO: * Various
CHEMICAL: Dioxins
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Validate an Emission Test Method for Dioxins
STATUS: Complete 6/86
CONTACT: EMSL-RTP, J. Knoll
92. CAS NO: * 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop and Evaluate a Source Test Method for Ethylene Oxide
STATUS: Complete 12/85
CONTACT: EMSL-RTP, J. Margeson
93. CAS NO: * 106-89-8
CHEMICAL: Epichlorohydrin
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop and Evaluate a Source Test Method for Epichlorohydrin
STATUS: Complete 12/85
CONTACT: EMSL-RTP, J. Pau
94. CAS NO: * 77-47-4
CHEMICAL: Hexachlorocyclopentadiene
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop and Evaluate a Source Test Method for Hexachlorocyclopentadiene
STATUS: Complete 12/85
CONTACT: EMSL-RTP, J. Knoll

95. CAS NO: * Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop Additions to QA Handbook, Vol. III for HAP Pollutants
STATUS: Publish 12/85
CONTACT: EMSL-RTP, D. Von Lehmden
96. CAS NO: * Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Comparison of Cryogenic Trapping and Sorbent Sampling
STATUS: Complete 7/85
CONTACT: EMSL-RTP, W. McClenny
97. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: A Report on the Operation of the Toxics Air Monitoring System (TAMS) for FY 85
STATUS: Publish FY 85
CONTACT: EMSL-RTP, G. Evans
98. CAS NO: * Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Revisions to Compendium of Methods
STATUS: Publish 9/85
CONTACT: EMSL-RTP, L. Purdue
99. CAS NO: Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Atmospheric Measurements of Trace Hazardous Organic Chemicals
STATUS: In Progress FY 85
CONTACT: ASRL-RTP, L. Cupitt
100. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis;
TITLE: Source Assessment Hazardous Air Pollutants in the Urban Environment
STATUS: In Progress FY 85
CONTACT: ASRL-RTP, L. Cupitt
101. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Ambient Air/Source Transport and Transformation Relationships for Selected Hazardous Air Pollutants
STATUS: In Progress FY 85
CONTACT: ASRL-RTP, W. Lonneman
102. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants (Priority)
PROJECT TYPE: Toxicology
TITLE: Determine Pulmonary Dose-Response Relationships
STATUS: Started 10/81; Continuing
CONTACT: HERL-RTP, J. Graham
103. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants (Priority)
PROJECT TYPE: Toxicology
TITLE: Determine Neurotoxic Dose-Response Relationships
STATUS: Started 10/81; Complete 6/85
CONTACT: HERL-RTP, L. Reiter
104. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants (Priority)
PROJECT TYPE: Toxicology
TITLE: Characterize Genotoxic Dose-Response Relationships
STATUS: Started 10/79; Complete 10/87
CONTACT: HERL-RTP, J. Lewtas
105. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Toxicology; Monitoring, Sampling, and Analysis
TITLE: Identify and Evaluate Toxic Components of Air Pollution
STATUS: Started 10/81; Complete 10/87
CONTACT: HERL-RTP, J. Lewtas
106. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Toxicology
TITLE: Determine the Significance of Neurotoxic Response Indicators
STATUS: Started 10/81; Complete 10/88
CONTACT: HERL-RTP, L. Reiter
107. CAS NO: Various
CHEMICAL: Organic Compounds
SOURCES: Residential Buildings; Combustion; Coke Ovens
PROJECT TYPE: Source Assessment; Risk Assessment; Toxicology
TITLE: Evaluate the Contribution of Source Emissions to Cancer Risk
STATUS: Started 10/83; Complete 10/88
CONTACT: HERL-RTP, J. Lewtas
108. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants
SOURCE: Combustion
PROJECT TYPE: Toxicology; Risk Assessment
TITLE: Genotoxic Risks from Complex Mixtures of Hazardous Air Pollutants
STATUS: Start 10/84; Complete 9/89
CONTACT: HERL-RTP, J. Lewtas
109. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Toxicology
TITLE: Develop Methods to Identify Reproductive Toxicity of Air Pollutants
STATUS: Started 10/84; Complete 9/90
CONTACT: HERL-RTP, J. Laskey
110. CAS NO: * Various
CHEMICAL: Various
SOURCE: Combustion
PROJECT TYPE: Exposure Assessment
TITLE: Integrated Air Cancer Project
STATUS: Started 10/84; Continuing
CONTACT: HERL-RTP, J. Lewtas

111. CAS NO: Various
 CHEMICAL: Hazardous Air Pollutants
 PROJECT TYPE: Risk Assessment
 TITLE: Harvard University Cooperative Agreement - Monographs on Research and Policy Issues Including
 1.) Sensitive Individuals,
 2.) Biological Screening Tests,
 3.) Air Carcinogen Policy, and
 4.) Regulation of Toxic and Nuclear Waste.
 STATUS: Started 6/80; Complete 10/85
 CONTACT: ORD/OHR, R. Cortesi

112. CAS NO: Various
 CHEMICAL: Hazardous Air Pollutants
 SOURCE: Fired Heaters; Combustion
 PROJECT TYPE: Emission Factor Document;
 Source Assessment
 TITLE: Evaluation of Techniques to Reduce HAP Emissions from Waste-Oil-Fired Heaters
 STATUS: In Progress FY 85
 CONTACT: AEERL-RTP, R. Hall

113. CAS NO: Various
 CHEMICAL: Hazardous Air Pollutants; VOC
 PROJECT TYPE: Emission Factor Document
 TITLE: Destruction of VOC/HAP Emissions Via Catalytic Incineration
 STATUS: In Progress FY 85
 CONTACT: AEERL-RTP, B. Tichenor

114. CAS NO: Various
 CHEMICAL: Organic Compounds
 SOURCE: Incineration; Combustion
 PROJECT TYPE: Monitoring, Sampling, and Analysis
 TITLE: Fugitive Organic Emissions from Incineration
 STATUS: In Progress FY 85
 CONTACT: AEERL-RTP, M. Jackson

115. CAS NO: * Various
 CHEMICAL: Indoor Air Pollutants
 PROJECT TYPE: Source Assessment
 TITLE: Indoor Air Quality Source Assessment Studies
 STATUS: Complete 9/85
 CONTACT: AEERL-RTP, D. Sanchez

116. CAS NO: * Various
 CHEMICAL: Organic Compounds
 PROJECT TYPE: Monitoring, Sampling, and Analysis
 TITLE: Hazardous Organic Evaporative Emissions Testing: Synfuels vs. Petrofuels
 STATUS: In Progress FY 85
 CONTACT: AEERL-RTP, N. Smith

117. CAS NO: * Various
 CHEMICAL: Indoor Air Pollutants
 PROJECT TYPE: Emission Factor Document;
 Monitoring, Sampling, and Analysis
 TITLE: Characterization of Emissions from Indoor Materials
 STATUS: Complete 4/85
 CONTACT: AEERL-RTP, D. Sanchez

118. CAS NO: * Various
 CHEMICAL: Polynuclear Aromatic Hydrocarbons
 PROJECT TYPE: Source Assessment
 TITLE: Ninth International Symposium on Polynuclear Aromatics
 STATUS: Publish 9/85
 CONTACT: AEERL-RTP, Johnson

119. CAS NO: * Various
 CHEMICAL: Dyes
 SOURCE: Textile Industry
 PROJECT TYPE: Source Assessment
 TITLE: Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment
 STATUS: Complete 3/85
 CONTACT: AEERL-RTP, J. Ruppertsberger

120. CAS NO: * Various
 CHEMICAL: Various
 SOURCE: Hazardous Waste Facilities; Incinerators
 PROJECT TYPE: Monitoring, Sampling, and Analysis
 TITLE: Evaluation of Hazardous Waste Incinerator Operation
 STATUS: In Progress FY 85
 CONTACT: AEERL-RTP, D. Harris

121. CAS NO: * Various
 CHEMICAL: Indoor Air Pollutants
 PROJECT TYPE: Monitoring, Sampling, and Analysis
 TITLE: Survey of Indoor Air Pollutant Measurement Technology
 STATUS: In Progress FY 85
 CONTACT: AEERL-RTP, D. Harris

122. CAS NO: * Various
 CHEMICAL: Indoor Air Pollutants
 PROJECT TYPE: Monitoring, Sampling, and Analysis
 TITLE: Methods Development for Collecting Indoor Air Pollutant Samples for Bioassay
 STATUS: In Progress FY 85
 CONTACT: AEERL-RTP, D. Harris

123. CAS NO: * Various
 CHEMICAL: Various
 PROJECT TYPE: Monitoring, Sampling, and Analysis
 TITLE: Improved Analysis Technique for Volatile Hazardous Constituents
 STATUS: In Progress FY 85
 CONTACT: AEERL-RTP, Anderson

124. CAS NO: * Various
 CHEMICAL: Dioxins; Polychlorinated Biphenyls (PCB)
 SOURCE: Incinerators; Hazardous Waste Facilities
 PROJECT TYPE: Monitoring, Sampling, and Analysis
 TITLE: Analysis of Samples from Waste Incineration Study Involving Hazardous Materials Such as Dioxins and PCB's
 STATUS: In Progress FY 85
 CONTACT: AEERL-RTP, J. Wasser

125. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities;
Incinerators
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: POHC Sampling and Analysis Methods
for Hazardous Waste Incineration
STATUS: Complete 6/85
CONTACT: AEERL-RTP, A. Gagnon
126. CAS NO: * Various
CHEMICAL: Organic Compounds
SOURCE: Hazardous Waste Facilities;
Incinerators
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Volatile Organic Sampling for
Hazardous Waste Incinerator
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, Anderson
127. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities;
Incinerators
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Sample Integrity and Sorbent
Evaluation for Hazardous Waste
Incineration and Stationary
Source Sampling
STATUS: Complete 8/85
CONTACT: AEERL-RTP, R. Merrill
128. CAS NO: * Various
CHEMICAL: Indoor Air Pollutants
PROJECT TYPE: Monitoring, Sampling, and Analysis;
Emission Factor Document
TITLE: Indoor Air Pollution Emission
Rate Data Base
STATUS: Complete 3/85
CONTACT: AEERL-RTP, Samfield
129. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis;
Source Assessment
TITLE: Integrated Air Cancer Project -
Source Measurement
STATUS: Complete 8/85
CONTACT: AEERL-RTP, R. McGrillis
130. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Emission Factor Document
TITLE: NAPAP Emission Inventory -
Develop Emission Factors for
Non-Criteria Pollutants
STATUS: Complete 6/85
CONTACT: AEERL-RTP, J. Mobley
131. CAS NO: * 7440-50-8
CHEMICAL: Copper
PROJECT TYPE: Source Assessment
TITLE: Evaluation of Copper Emissions
from Industrial Facilities
STATUS: Complete 11/85
CONTACT: AEERL-RTP, B. Tichenor
132. CAS NO: * Various
CHEMICAL: Various
SOURCE: Combustion
PROJECT TYPE: Source Assessment
TITLE: Wood Stove Emissions
Characterization and Control
Technology Technical Support
STATUS: Complete 3/85
CONTACT: AEERL-RTP, R. McGrillis
133. CAS NO: * Various
CHEMICAL: Various
SOURCE: Combustion
PROJECT TYPE: Source Assessment
TITLE: Integrated Air Cancer Project:
Wood Stove Operating Profiles
STATUS: Complete 5/85
CONTACT: AEERL-RTP, R. McGrillis
134. CAS NO: * 10043-92-2
CHEMICAL: Radon
PROJECT TYPE: Source Assessment
TITLE: Demonstration of Low-Cost
Reduction of Indoor Radon
from Soil
STATUS: Complete 3/87
CONTACT: AEERL-RTP, J. Ruppertsberger
135. CAS NO: Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment
TITLE: Preliminary Assessment of Hazardous
Waste Pretreatment as an Air
Pollution Control Technique
STATUS: Publish 2/85
CONTACT: HWERL-Ci, B. Blaney
136. CAS NO: 74-82-8
CHEMICAL: Methane
SOURCE: Hazardous Waste Sites
PROJECT TYPE: Source Assessment
TITLE: Field Verification of Methane
Movement Predictions and Methane
Control Systems for Landfills
STATUS: Publish Draft 3/85
CONTACT: HWERL-Ci, M. Roulier
137. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Exposure Assessment
TITLE: Applications Manual for
Inhalation Exposure Methodology
STATUS: Publish 4/85
CONTACT: HWERL-Ci, B. Blaney
138. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment; Monitoring,
Sampling, and Analysis
TITLE: Report Describing Field Assessment
of the Use of Treatment to Reduce
Emissions from Hazardous Waste Streams
STATUS: Publish 10/85
CONTACT: HWERL-Ci, B. Blaney

<p>139. CAS NO: * Various CHEMICAL: Various SOURCE: Hazardous Waste Facilities PROJECT TYPE: Source Assessment TITLE: Report on Air Emissions for Hazardous Waste Treatment Systems Publish 6/85 STATUS: HWERL-Ci, B. Blaney CONTACT:</p> <p>140. CAS NO: * Various CHEMICAL: Various SOURCE: Hazardous Waste Facilities PROJECT TYPE: Source Assessment TITLE: Case Studies of Hazardous Waste Air Emissions Publish 1/86 STATUS: HWERL-Ci, B. Blaney CONTACT:</p> <p>141. CAS NO: * Various CHEMICAL: Various SOURCE: Hazardous Waste Facilities PROJECT TYPE: Emission Factor Document TITLE: Preliminary Assessment of Air Emissions from Waste Treatment Systems Publish 1/86 STATUS: HWERL-Ci, B. Blaney CONTACT:</p> <p>142. CAS NO: * Various CHEMICAL: Various SOURCE: Hazardous Waste Sites PROJECT TYPE: Monitoring, Sampling, and Analysis TITLE: Identify Volatilization Mechanisms and Parameters for Surface Impoundments and Develop Measurement Techniques for These Parameters Publish Draft 2/85 STATUS: HWERL-Ci, S. James CONTACT:</p> <p>143. CAS NO: * Various CHEMICAL: Various SOURCE: Hazardous Waste Sites PROJECT TYPE: Source Assessment TITLE: Air Emissions from Surface Impoundments In Progress FY 85 STATUS: HWERL-Ci, P. dePercin CONTACT:</p> <p>144. CAS NO: Various CHEMICAL: Various SOURCE: Hazardous Spills PROJECT TYPE: Source Assessment TITLE: Develop Mobile Collection/Treatment System for Spilled Volatile and Gaseous Materials Publish Draft 1/85 STATUS: HWERL-Edi, M. Royer CONTACT:</p> <p>145. CAS NO: Various CHEMICAL: Various SOURCE: Hazardous Spills PROJECT TYPE: Source Assessment TITLE: Evaluation/Development of Foams for Mitigating Air Pollution from Hazardous Spills In Progress FY 85 STATUS: HWERL-Edi, J. Brugger CONTACT:</p>	<p>146. CAS NO: Various CHEMICAL: Various SOURCE: Hazardous Waste Sites PROJECT TYPE: Source Assessment TITLE: Evaluation of Volatilization of Hazardous Compounds at Hazardous Waste Land Treatment Sites Complete 9/85 STATUS: Kerr Lab, F. Pfeffer CONTACT:</p> <p>147. CAS NO: Various CHEMICAL: Aluminum; Lithium Compounds PROJECT TYPE: Toxicology TITLE: Neurobehavioral Methods For Toxic Agents Started 10/79; Completed 9/83; In Publication 1/85 STATUS: NIOSH/DBBS/APEB, D. Chrislip CONTACT:</p> <p>148. CAS NO: 74-83-9; 75-15-0; 56-23-5; 2699-79-8 CHEMICAL: Methyl Bromide; Carbon Tetra-chloride; Carbon Disulfide; Sulfuryl Fluoride SOURCE: Fumigation PROJECT TYPE: Epidemiology TITLE: Neurotoxicity Evaluations of Fumigators Started 10/80; Complete 9/86 STATUS: NIOSH/DBBS/APEB, K. Anger CONTACT:</p> <p>149. CAS NO: Various CHEMICAL: Alcohol Solvents; Solvents PROJECT TYPE: Toxicology TITLE: Behavioral Teratology of Alcohol Solvents Started 10/82; Complete 9/87 STATUS: NIOSH/DBBS/APEB, K. Nelson CONTACT:</p> <p>150. CAS NO: * Various CHEMICAL: Solvents PROJECT TYPE: Toxicology TITLE: Neurotoxicity of Aliphatic Carbon Solvents Started 10/83; Complete 9/87 STATUS: NIOSH/DBBS/APEB, K. Anger CONTACT:</p> <p>151. CAS NO: * Various CHEMICAL: Paints; Ketones PROJECT TYPE: Toxicology TITLE: Neurobehavioral Effects from Single/Mixed Spray Paint Agents Started 10/79, Complete 9/87 STATUS: NIOSH/DBBS/APEB, R. Dick CONTACT:</p> <p>152. CAS NO: * Various CHEMICAL: Cadmium; Heavy Metals PROJECT TYPE: Toxicology TITLE: Neurotoxicity from Exposure to Heavy Metals Started 10/84; Complete 9/88 STATUS: NIOSH/DBBS/APEB, K. Anger CONTACT:</p> <p>153. CAS NO: * Various CHEMICAL: Various PROJECT TYPE: Toxicology; Epidemiology TITLE: Methodologies for Worksite Neurotoxicity Started 10/84; Complete 9/87 STATUS: NIOSH/DBBS/APEB, K. Anger CONTACT:</p>
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154. CAS NO: Various
CHEMICAL: Particulates
SOURCE: Foundries
PROJECT TYPE: Toxicology
TITLE: Carcinogenicity of Foundry Particulates
STATUS: Started 10/78; Completed 9/83; In Publication 1/85
CONTACT: NIOSH/DBBS/ETB, R. Niemeier
155. CAS NO: Various
CHEMICAL: Diesel Exhaust; Coal Dust
SOURCE: Mining
PROJECT TYPE: Toxicology
TITLE: Diesel Exhaust/Coal Dust Animal Exposure Studies
STATUS: Started 10/77; Completed 9/83; In Publication 1/85
CONTACT: NIOSH/DBBS/ETB, T. Lewis
156. CAS NO: 107-11-9; 121-44-8
CHEMICAL: Allylamine; Triethylamine
PROJECT TYPE: Toxicology
TITLE: Occupational Cardiac Toxicity
STATUS: Started 10/80; Completed 5/84; In Publication 1/85
CONTACT: NIOSH/DBBS/ETB, D. Lynch
157. CAS NO: Various
CHEMICAL: Isobutyl Nitrate; Hazardous Chemicals
PROJECT TYPE: Toxicology
TITLE: Emergency Toxicological Assessment
STATUS: Started 10/81; Completed FY 84; In Publication 1/85
CONTACT: NIOSH/DBBS/ETB, D. Lynch
158. CAS NO: 1314-62-1
CHEMICAL: Vanadium Pentoxide
SOURCE: Mining
PROJECT TYPE: Toxicology; Epidemiology
TITLE: Pulmonary Hypersensitivity of Industrial Agents
STATUS: Started 10/78; Complete 9/85
CONTACT: NIOSH/DBBS/ETB, W. Moorman
159. CAS NO: 107-06-2
CHEMICAL: 1,2-Dichloroethane
PROJECT TYPE: Toxicology
TITLE: Dichloroethane Drug Interactions-NCI
STATUS: Started 10/80; Complete 9/85
CONTACT: NIOSH/DBBS/ETB, K. Cheever
160. CAS NO: 8052-42-4
CHEMICAL: Asphalt
PROJECT TYPE: Toxicology
TITLE: Assessment of Cocarcinogenic Activity of Asphalt Fumes
STATUS: Started 10/82; Complete 9/87
CONTACT: NIOSH/DBBS/ETB, R. Niemeier
161. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Toxicology
TITLE: Inhalation Reproductive and Developmental Toxicity Testing
STATUS: Started 10/84; Complete 9/89
CONTACT: NIOSH/DBBS/ETB, B. Hardin
162. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Toxicology
TITLE: Prioritizing Chemicals for Reproductive Toxicity Testing
STATUS: Started 10/80; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, B. Hardin
163. CAS NO: * Various
CHEMICAL: Glycol Ethers
PROJECT TYPE: Toxicology
TITLE: Biochemical Indices of Male Reproductive Impairment
STATUS: Started 10/82; Complete 12/85
CONTACT: NIOSH/DBBS/ETB, K. Cheever
164. CAS NO: * 111-96-6
CHEMICAL: Bis(2-methoxyethyl)ether
PROJECT TYPE: Toxicology
TITLE: Metabolism and Excretion Studies of Bis(2-methoxyethyl)ether (Diglyme)
STATUS: Started 10/84; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, D. Richards
165. CAS NO: * 109-86-4
CHEMICAL: 2-Methoxyethanol
PROJECT TYPE: Toxicology
TITLE: Cardiovascular Fetotoxicity and Functional Teratogenesis
STATUS: Started 10/83; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, M. Toraason
166. CAS NO: * 85-44-9
CHEMICAL: Phthalic Anhydride
PROJECT TYPE: Toxicology
TITLE: Pulmonary Hypersensitivity of Industrial Agents
STATUS: Started 10/84; Complete 9/87
CONTACT: NIOSH/DBBS/ETB, E. Knecht
167. CAS NO: * 1314-62-1
CHEMICAL: Vanadium Pentoxide
PROJECT TYPE: Toxicology
TITLE: Chronic Inhalation of Vanadium Pentoxide
STATUS: Started 10/83; Complete 9/88
CONTACT: NIOSH/DBBS/ETB, W. Moorman
168. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Toxicology
TITLE: In Vitro Tests for Workplace Carcinogens
STATUS: Started 10/80; Complete 1/88
CONTACT: NIOSH/DBBS/ETB, J. Bohrmann
169. CAS NO: * Various
CHEMICAL: Aromatic Amines
PROJECT TYPE: Toxicology
TITLE: Biomonitoring for Populations Exposed to Aromatic Amines
STATUS: Started 6/85; Complete 9/88
CONTACT: NIOSH/DBBS/ETB, T. Lewis
170. CAS NO: * Various
CHEMICAL: Solvents
PROJECT TYPE: Toxicology
TITLE: Percutaneous Absorption Characteristics of Occupational Chemicals
STATUS: Started 10/84; Complete 9/89
CONTACT: NIOSH/DBBS/ETB, A. Susten

171. CAS NO: * 75-15-0
CHEMICAL: Carbon Disulfide
PROJECT TYPE: Toxicology
TITLE: Occupational Cardiac Toxicity
STATUS: Started 10/84; Complete 6/86
CONTACT: NIOSH/DBBS/ETB, D. Lynch
172. CAS NO: * 1317-36-8; 1314-87-0
CHEMICAL: Lead Oxide, Lead Sulfide
PROJECT TYPE: Toxicology
TITLE: Comparative Inhalation Toxicity of Lead Oxide and Lead Sulfide
STATUS: Started 10/84; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, D. Lynch
173. CAS NO: * 68-12-2
CHEMICAL: Dimethylformamide
PROJECT TYPE: Toxicology
TITLE: Carcinogenicity of Dimethylformamide
STATUS: Started 9/85; Complete 12/89
CONTACT: NIOSH/DBBS/ETB, T. Lewis
174. CAS NO: * Various
CHEMICAL: Coal Slags; Silica
PROJECT TYPE: Toxicology
TITLE: Fibrogenicity of Coal Slags
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DBBS/ETB, T. Lewis
175. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis; Toxicology
TITLE: Particulate and Tissue Analysis Service and Research
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DBBS/ETB, L. Stettler
176. CAS NO: * 1332-21-4; Various
CHEMICAL: Asbestos; Asbestos Substitutes
PROJECT TYPE: Toxicology
TITLE: Evaluation of Mesothelioma Production by Asbestos Substitutes
STATUS: Started 10/84; Complete 9/84
CONTACT: NIOSH/DBBS/ETB, F. Platek
177. CAS NO: * Various
CHEMICAL: Pyrene; Coal Tar
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Biomonitoring of Exposure to Coal Tar
STATUS: Started 10/83; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, B. Tolos
178. CAS NO: Various
CHEMICAL: Coal Slags; Silica
PROJECT TYPE: Toxicology
TITLE: Fibrogenicity of Coal Slags
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DBBS/TSB, L. Stettler
179. CAS NO: 68-12-2
CHEMICAL: Dimethylformamide; Solvents
PROJECT TYPE: Toxicology
TITLE: Chronic Biological Effects of Dimethylformamide
STATUS: Started 1/79; Complete 9/85
CONTACT: NIOSH/DBBS/TSB, W. Wagner
180. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis; Toxicology
TITLE: Particulate and Tissue Analysis Service and Research
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DBBS/TSB, L. Stettler
181. CAS NO: Various
CHEMICAL: Cotton Dusts
PROJECT TYPE: Toxicology
TITLE: Cotton Dusts and Extracts, Pulmonary Responses
STATUS: Started 10/81; Complete 9/85
CONTACT: NIOSH/DRDS/LIB, P. Miles
182. CAS NO: Various
CHEMICAL: Cotton Dusts
PROJECT TYPE: Epidemiology; Toxicology
TITLE: Endotoxins in Cotton
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DRDS/LIB, S. Olenchok
183. CAS NO: Various
CHEMICAL: Coal Dust, Diesel Exhaust
PROJECT TYPE: Toxicology
TITLE: Microbiological and Mutagenesis Studies
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DRDS/LIB, T. Ong
184. CAS NO: Various
CHEMICAL: Cotton Dusts; Various
SOURCE: Coal Mining; Mining; Textile Industry
PROJECT TYPE: Epidemiology; Toxicology
TITLE: Comparative Research in Analytical Pathology
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DRDS/LIB, F. Green
185. CAS NO: Various
CHEMICAL: Selenium; Aerosols; Arsenic; Vanadium; Copper; Zinc; Heavy Metals
PROJECT TYPE: Toxicology
TITLE: Physiology and Pharmacology of Occupational Respiratory Disease
STATUS: Started 10/83; Continuing
CONTACT: NIOSH/DRDS/LIB, K. Weber
186. CAS NO: Various
CHEMICAL: Cotton Dusts
SOURCE: Textile Industry
PROJECT TYPE: Epidemiology; Toxicology
TITLE: Evaluation of the Effects of Washed Cotton
STATUS: Started 10/81; Complete FY 85
CONTACT: NIOSH/DRDS/CIB, R. Castellan
187. CAS NO: 1309-37-1; 1332-37-2; 1345-25-1
CHEMICAL: Iron Oxide
SOURCE: Welding; Steel Industry
PROJECT TYPE: Epidemiology
TITLE: Morbidity and Industrial Hygiene Study of Mild Steel Workers
STATUS: Started 10/81; Complete FY 85
CONTACT: NIOSH/DRDS/CIB, A. Patil

188. CAS NO: * Various
 CHEMICAL: Diesel Exhaust
 PROJECT TYPE: Epidemiology
 TITLE: Occupational Lung Disease Associated with Exposure to Diesel Emissions
 STATUS: Started 10/81; Complete 9/86
 CONTACT: NIOSH/DRDS/ENIB, M. McCawley
189. CAS NO: * Various
 CHEMICAL: Various
 SOURCE: Welding; Steel Industry
 PROJECT TYPE: Epidemiology
 TITLE: Prospective Cohort and Industrial Hygiene Study of Mild Steel Welders
 STATUS: Started 10/83; Complete 10/91
 CONTACT: NIOSH/DRDS/ENIB, P. Hewett
190. CAS NO: * Various
 CHEMICAL: Silica
 PROJECT TYPE: Monitoring, Sampling, and Analysis
 TITLE: Effective Silica Indices of Respirable Mineral Dusts
 STATUS: Started 10/84; Complete 9/88
 CONTACT: NIOSH/DRDS/ENIB, W. Wallace
191. CAS NO: * Various
 CHEMICAL: Various
 SOURCE: Energy Industry; Oil Shale Processes
 PROJECT TYPE: Epidemiology
 TITLE: Occupational Health Studies in Emerging Energy Industries
 STATUS: Started 8/81; Complete 9/85
 CONTACT: NIOSH/DRDS/ENIB, W. Wallace
192. CAS NO: * Various
 CHEMICAL: Aerosols; Organic Compounds
 SOURCE: Agriculture
 PROJECT TYPE: Toxicology
 TITLE: Micro-organisms in HVAC Systems
 STATUS: Started 10/82; Complete 9/85
 CONTACT: NIOSH/DRDS/ENIB, P. Morey
193. CAS NO: * Various
 CHEMICAL: Various
 SOURCE: Mining
 PROJECT TYPE: Epidemiology
 TITLE: National Occupational Health Survey of Mining
 STATUS: Started 10/82; Complete 12/90
 CONTACT: NIOSH/DRDS/ENIB, W. Carr
194. CAS NO: Various
 CHEMICAL: Diesel Exhaust; Coal Dust
 SOURCE: Mining
 PROJECT TYPE: Epidemiology
 TITLE: Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions
 STATUS: Started 10/81; Completed 9/84; In Publication 1/85
 CONTACT: NIOSH/DRDS/EPiB, R. Ames
195. CAS NO: 50-32-8; 56-55-3; Others
 CHEMICAL: Diesel Exhaust; Polynuclear Aromatic Hydrocarbons; Benzo(A)Pyrene; Benz(A)Anthracene; Silica; Coal Dust; Asbestos
 SOURCES: Mining; Cargo Transport; Granite Industry; Cement Industry; Crushed Stone Industry
 PROJECT TYPE: Epidemiology
 TITLE: Mortality of Miners and Related Workers
 STATUS: Started 10/78; Complete FY 85
 CONTACT: NIOSH/DRDS/EPiB, J. Costello
196. CAS NO: Various
 CHEMICAL: Various
 SOURCE: Non-metallic Minerals Industry; Mining
 PROJECT TYPE: Epidemiology
 TITLE: Studies of Miners and Millers of Non-Metallic Ores
 STATUS: Started 1/77; Completed 10/84; In Publication 1/85
 CONTACT: NIOSH/DRDS/EPiB, J. Gamble
197. CAS NO: Various
 CHEMICAL: Silica
 SOURCE: Mining
 PROJECT TYPE: Epidemiology
 TITLE: Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners
 STATUS: Started 10/82; Complete 9/85
 CONTACT: NIOSH/DRDS/EPiB, H. Amandus
198. CAS NO: Various
 CHEMICAL: Coal Dust
 SOURCE: Mining
 PROJECT TYPE: Epidemiology
 TITLE: National Coal Study and Coal Worker Surveillance
 STATUS: Started 10/81; Continuing
 CONTACT: NIOSH/DRDS/EPiB, M. Attfield
199. CAS NO: * Various
 CHEMICAL: Silica; Asbestos
 PROJECT TYPE: Epidemiology
 TITLE: Study of Workers in the Dusty Trades in North Carolina - NCI
 STATUS: Started FY 84; Complete FY 87
 CONTACT: NIOSH/DRDS/EPiB, H. Amandus
200. CAS NO: * Various
 CHEMICAL: Silica
 SOURCE: Sand Industry
 PROJECT TYPE: Epidemiology
 TITLE: Health Experience of Industrial Sand Workers
 STATUS: Started FY 84; Complete FY 87
 CONTACT: NIOSH/DRDS/EPiB, H. Amandus
201. CAS NO: * 50-00-0
 CHEMICAL: Formaldehyde
 PROJECT TYPE: Epidemiology
 TITLE: Effects of Formaldehyde on the Respiratory System
 STATUS: Started FY 84; Complete FY 87
 CONTACT: NIOSH/DRDS/EPiB, J. Gamble

202. CAS NO: Various
CHEMICAL: Various
SOURCE: Automobile Industry
PROJECT TYPE: Epidemiology
TITLE: Mortality Analysis of United Auto Workers Cohorts
STATUS: Started 10/80; Completed 9/83; In Publication 1/85
CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe
203. CAS NO: Various
CHEMICAL: Various
SOURCE: Automobile Industry; Woodworking
PROJECT TYPE: Epidemiology
TITLE: Mortality and Industrial Hygiene Study of Wood Die and Model Makers
STATUS: Started 10/80; Complete FY 85
CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe
204. CAS NO: 75-21-8
CHEMICAL: Ethylene Oxide
SOURCE: Chemical Industry
PROJECT TYPE: Epidemiology
TITLE: Mortality Study of Chemical Plants in Kanawha Valley, West Virginia
STATUS: Started 10/79; Complete FY 85
CONTACT: NIOSH/DSHEFS/IWSB, R. Rinsky
205. CAS NO: 108-88-3
CHEMICAL: Toluene
PROJECT TYPE: Epidemiology
TITLE: Mortality and Industrial Hygiene Study of Workers Exposed to Toluene
STATUS: Started 10/79; Complete FY 85
CONTACT: NIOSH/DSHEFS/IWSB, F. Stern
206. CAS NO: 1333-86-4; Others
CHEMICAL: Polycyclic Aromatic Hydrocarbons; Carbon Black
SOURCE: Newspaper Industry
PROJECT TYPE: Epidemiology
TITLE: An Assessment of Worker Exposure in the Newsprint Industry
STATUS: Started 10/82; Complete FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Hills
207. CAS NO: 50-00-0
CHEMICAL: Formaldehyde
PROJECT TYPE: Epidemiology
TITLE: Mortality and Industrial Hygiene Study of Formaldehyde
STATUS: Started 10/80; Complete 3/85
CONTACT: NIOSH/DSHEFS/IWSB, L. Stayner
208. CAS NO: 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Epidemiology
TITLE: Ethylene Oxide Mortality Study - NCI
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, L. Stayner
209. CAS NO: 101-14-4
CHEMICAL: MOCA
PROJECT TYPE: Epidemiology
TITLE: Investigation of Workers Exposed to MOCA
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, E. Ward
210. CAS NO: Various
CHEMICAL: Hydrazines; Hexanes
PROJECT TYPE: Epidemiology
TITLE: Industrial Hygiene Study of New Agents-IV - NCI
STATUS: Started 10/81; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, Fajen
211. CAS NO: 95-95-4; 87-86-5; Others
CHEMICAL: Dioxins; 2,4,5-Trichlorophenol; Pentachlorophenol
PROJECT TYPE: Epidemiology
TITLE: Mortality of Dioxin Workers
STATUS: Started 10/79; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, Fingerhut
212. CAS NO: 1336-36-3; 127-18-4; 100-42-5; 106-99-0; 71-43-2; 7440-43-9; 75-01-4; Others
CHEMICAL: Polychlorinated Biphenyls (PCB); Perchloroethylene; Pesticides; Rubber; Styrene; Butadiene; Benzene; Cadmium; Vinyl Chloride
PROJECT TYPE: Epidemiology
TITLE: Update of Completed Cohort Mortality Studies - NCI
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, D. Brown
213. CAS NO: Various
CHEMICAL: Lead Chromate; Chromium
PROJECT TYPE: Epidemiology
TITLE: Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, M. Herrick
214. CAS NO: Various
CHEMICAL: Various
SOURCE: Chemical Industry
PROJECT TYPE: Epidemiology
TITLE: Chromosomal Aberrations and Occupational Carcinogenesis
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, T. Meinhardt
215. CAS NO: 7440-41-7
CHEMICAL: Beryllium
PROJECT TYPE: Epidemiology
TITLE: Beryllium Retrospective Cohort Investigation - NCI
STATUS: Started 10/81; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, A. Okun
216. CAS NO: 106-93-4; 75-21-8; 7440-61-1
CHEMICAL: Ethylene Oxide; Uranium; Ethylene Dibromide
PROJECT TYPE: Epidemiology; Toxicology
TITLE: Cytogenetic Assays and Analysis of Occupational Populations
STATUS: Started 10/82; Complete 9/86
CONTACT: NIOSH/DSHEFS/IWSB, T. Meinhardt, K. Steenland
217. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Epidemiology
TITLE: Medical, Biometric and Industrial Hygiene Study of Emerging Problems
STATUS: Started 10/79; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, W. Halperin

<p>218. CAS NO: Various CHEMICAL: Various PROJECT TYPE: Epidemiology; Health Assessment TITLE: Health Hazard Evaluations and Technical Assistance STATUS: Started 10/80; Continuing CONTACT: NIOSH/DSHEFS/IWSB, J. Melius</p> <p>219. CAS NO: 117-81-7; 75-21-8; 50-00-0; 101-14-4; Others CHEMICAL: DEHP; Ethylene Oxide; MOCA; Formaldehyde; Organotin; Glycol Ethers PROJECT TYPE: Epidemiology; Health Assessment TITLE: Epidemiologic and Industrial Support of Toxic Substances Control Act - EPA STATUS: Started 10/81; Continuing CONTACT: NIOSH/DSHEFS/IWSB, D. Brown</p> <p>220. CAS NO: * 7440-36-0 CHEMICAL: Antimony SOURCE: Smelters PROJECT TYPE: Epidemiology TITLE: Cohort Mortality Study of Antimony Smelter Workers STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, Schnorr</p> <p>221. CAS NO: * 106-99-0 CHEMICAL: Butadiene SOURCE: Chemical Industry PROJECT TYPE: Exposure Assessment TITLE: Exposure to Butadiene in the Industrial Environment STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, Fajen</p> <p>222. CAS NO: * 630-08-0 CHEMICAL: Carbon Monoxide SOURCE: Mobile Sources PROJECT TYPE: Epidemiology TITLE: Occupational Exposure to Carbon Monoxide STATUS: Started FY 80; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, F. Stern</p> <p>223. CAS NO: * 1746-01-6 CHEMICAL: Dioxins; 2,3,7,8-Tetrachlorodibenzo-p-dioxin PROJECT TYPE: Epidemiology TITLE: Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, Schnorr</p> <p>224. CAS NO: * Various CHEMICAL: Dyes PROJECT TYPE: Toxicology TITLE: Characterization of Exposure and Metabolism of o-Tolidine and o-Dianisidine Based Dyes STATUS: In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, M. Herrick</p> <p>225. CAS NO: * 75-21-8 CHEMICAL: Ethylene Oxide PROJECT TYPE: Epidemiology TITLE: Characterization of Worker Exposure to Ethylene Oxide STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, Ringenburt</p>	<p>226. CAS NO: * Various CHEMICAL: Chlorinated Naphthalenes PROJECT TYPE: Epidemiology TITLE: Mortality Study of Workers Exposed to Chlorinated Naphthalenes STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, E. Ward</p> <p>227. CAS NO: * Various CHEMICAL: Nitrosamines SOURCE: Leather Industry PROJECT TYPE: Epidemiology TITLE: Health Effects from Occupational Exposure to Nitrosamines in the Leather Industry STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, F. Stern</p> <p>228. CAS NO: * 101-77-9 CHEMICAL: Methylenedianiline PROJECT TYPE: Epidemiology TITLE: Causes of Mortality Among Workers Exposed to Methylenedianiline (MDA) STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, Boeniger</p> <p>229. CAS NO: * Various CHEMICAL: Various SOURCE: Steel Industry; Welding PROJECT TYPE: Epidemiology TITLE: Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland</p> <p>230. CAS NO: * 7664-93-9 CHEMICAL: Sulfuric Acid SOURCE: Steel Industry PROJECT TYPE: Epidemiology TITLE: Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland</p> <p>231. CAS NO: * Various CHEMICAL: Diesel Exhaust SOURCE: Mobile Sources PROJECT TYPE: Epidemiology TITLE: Study of Lung Cancer Mortality Among Teamsters STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland</p> <p>232. CAS NO: * 26471-62-5 CHEMICAL: Toluene Diisocyanate PROJECT TYPE: Epidemiology TITLE: Cohort Mortality Study of Toluene Diisocyanate Exposed Workers STATUS: Started FY 84; In Progress FY 85 CONTACT: NIOSH/DSHEFS/IWSB, Schnorr</p>
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233. CAS NO: * 10043-92-2
 CHEMICAL: Radon
 SOURCE: Uranium Mines; Mining
 PROJECT TYPE: Epidemiology
 TITLE: Long Term Effects of Exposure
 to Low Doses of Radon Daughters -
 NCI
 STATUS: Started FY 84; In Progress FY 85
 CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe

234. CAS NO: * Various
 CHEMICAL: Fibrous Glass
 PROJECT TYPE: Epidemiology
 TITLE: Historical Cohort Study of
 Respiratory Disease in Men
 Occupationally Exposed to
 Fibrous Glass
 STATUS: Started FY 74; In Progress FY 85
 CONTACT: NIOSH/DSHEFS/IWSB, Walker

235. CAS NO: * Various
 CHEMICAL: Organotin
 SOURCE: Chemical Industry
 PROJECT TYPE: Epidemiology
 TITLE: Effects of Biocidal Organotin
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 Function
 STATUS: Started FY 84; In Progress FY 85
 CONTACT: NIOSH/DSHEFS/IWSB, Fajen

236. CAS NO: * 1336-36-3
 CHEMICAL: Polychlorinated Biphenyls (PCB)
 PROJECT TYPE: Epidemiology
 TITLE: Composite Study of Worker
 Exposure to PCB
 STATUS: Started FY 76; In Publication FY 85
 CONTACT: NIOSH/DSHEFS/IWSB, Roberts

237. CAS NO: * 10043-92-2
 CHEMICAL: Radon
 SOURCE: Foundries
 PROJECT TYPE: Epidemiology
 TITLE: Radon Daughter Surveys of Foundries
 Using Zirconium Sand
 STATUS: Started FY 84; In Progress FY 85
 CONTACT: NIOSH/DSHEFS/IWSB, Bloom

238. CAS NO: * 7664-93-9
 CHEMICAL: Sulfuric Acid
 SOURCE: Steel Industry
 PROJECT TYPE: Epidemiology
 TITLE: Mortality of Sulfuric Acid
 Exposed Workers
 STATUS: In Publication FY 85
 CONTACT: NIOSH/DSHEFS/IWSB, J. Beaumont

239. CAS NO: Various
 CHEMICAL: Various
 PROJECT TYPE: Epidemiology
 TITLE: Access to National Occupational
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 STATUS: Started 10/78; Continuing
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240. CAS NO: Various
 CHEMICAL: Various
 PROJECT TYPE: Epidemiology
 TITLE: Surveillance Cooperative Agree-
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 STATUS: Started 10/79, Continuing
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PART 3. CHEMICAL NAME SYNONYM LIST

CAS NO.	NAME	
50-00-0	Formaldehyde (8C1)(9C1) Methyl aldehyde Methylene oxide Paraform (VAN) Methanal Oxomethane Formalin Superlysoform Morbicid Lysoform Methaldehyde Ivalon Fannoform BFV Formol Formic aldehyde Fyde Oxymethylene Formalith Formaldehyde, gas Formaldehyde solution	56-55-3-Contd 1,2-Benz[a]anthracene Benzo(b)phenanthrene 2,3-Benzophenanthrene Benzo[b]phenanthrene Benzo(a)anthracene 1,2-Benzanthracene Benz[a]anthracene Benzanthracene Tetraphene 1,2-Benzanthrene Benzanthrene
50-32-8	Benzo(a)pyrene (8C1)(9C1) 3,4-Benz[a]pyrene Benzo(a)pyrene Benzo[a]pyrene 3,4-Benzpyrene Benzo(d,e,f)chrysene Benz[a]pyrene Benz(a)pyrene 6,7-Benzopyrene 3,4-Benzopyrene 3,4-Benzopyrene/Carcinogen/Benzo[d,e,f] chrysene Benzo[d,e,f]chrysene 3,4-Benz(a)pyrene	60-12-8 Phenylethanol Phenethyl alcohol Benzyl carbinol 2-Phenylethanol .beta.-Hydroxyethylbenzene Benzylmethanol PEA .beta.-PEA Phenethanol .beta.-Phenethyl alcohol 2-Phenethyl alcohol .beta.-Phenethanol .beta.-Phenylethyl alcohol 2-Phenylethyl alcohol
50-78-5	p-Aminophenol, hydrochloride salt	67-66-3 Methane, trichloro-(9C1) Chloroform (8C1) Trichloromethane R20 (VAN) R 20/refrigerant/ Trichloroform
53-70-3	Dibenz(a,h)anthracene (8C1)(9C1) 1,2:5,6-Dibenz[a]anthracene 1,2:5,6-Dibenz(a)anthracene 1,2:5,6-Dibenzanthracene DBA (VAN) 1,2:5,6-Benzanthracene 1,2:5,6-Dibenzoanthracene	68-12-2 Formamide, N,N-dimethyl- (8C1)(9C1) DMF (VAN) N-Formyldimethylamine Dimethylformamide DMFA DMF (amide) N,N-Dimethylformamide
56-23-5	Methane, tetrachloro-(9C1) Necatorina Carbena (VAN) Carbon chloride/CCl4/ Carbon chloride/CCl4/ Vermoestricid (VAN) Tetrasol (VAN) Univerm (VAN) Carbon tetrachloride (8C1) Tetrafinol Flukoids (VAN) R 10 Tetraform (VAN) Tetrachloromethane Benzinoform Perchloromethane	71-43-2 Benzene (8C1)(9C1) Phenyl hydride Coal naphtha Pyrobenzole (6)Annulene Pyrobenzol Cyclohexatriene Benzole Phene Benzol
56-55-3	Benz(a)anthracene (8C1)(9C1) Benzo[a]anthracene 1,2-Benz(a)anthracene 1,2-Benzanthracene Benzoanthracene	71-55-6 Ethane, 1,1,1-trichloro- (8C1)(9C1) Chlorothene NU Chlorten Methyltrichloromethane 1,1,1-Trichloroethane Chlorotene Trichloroethane (VAN) Chlorothene .alpha.-Trichloroethane .alpha.-T. Methyl chloroform Methylchloroform Aerothene TT Chlorothene VG Inhibisol Chlorothane NU Chloramine Blue 3B

74-82-8	Methane (8Cl)(9Cl) Methyl hydride Marsh gas	76-13-1	Ethane, 1,1,2-trichloro-1,2,2-trifluoro- 1,1,2-Trifluoro-1,2,2-trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane Freson 113 Fluorocarbon 113 Ucon Fluorocarbon 113 CFC 113 UCON 113 Trichlorotrifluoroethane (VAN) Frigen 113 TR-T Chlorofluorocarbon 113 F-113
75-01-4	Ethene, chloro- (9Cl) Monochloroethylene Ethylene, chloro- (8Cl) Vinyl C monomer Vinyl chloride Chloroethene Chloroethylene	77-47-4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- (8Cl)(9Cl) 1,2,3,4,5,5-Hexachloro-1,3-cyclopentadiene HRS 1655 C 56 Perchlorocyclopentadiene Graphlox Hexachlorocyclopentadiene
75-09-2	Methane, dichloro- (8Cl)(9Cl) Methylene dichloride Aerotherne MM Solaesthin Methylene chloride Solmethine Narkoti Dichloromethane R 30	78-00-2	Plumbane, tetraethyl- (8Cl)(9Cl) Lead, tetraethyl- Tetraethyl lead Tetraethyllead Tetraethylplumbane TEL
75-15-0	Carbon disulfide (8Cl)(9Cl) Dithiocarbonic anhydride Carbon bisulfide Carbon disulphide Carbon sulfide/CS2/ Carbon bisulphide	78-40-0	Phosphoric acid, triethyl ester Triethyl phosphate
75-21-8	Oxirane (9Cl) 1,2-Epoxyethane (VAN) Dihydrooxirene (VAN) ETO (VAN) T-Gas Oxidoethane Oxacyclopropane Oxane (VAN) Ethylene oxide (8Cl) Oxyfume 12 Epoxyethane Oxirene, dihydro Dimethylene oxide (VAN) Oxyfume Ethene oxide	79-01-6	Ethene, trichloro- (9Cl) Threthylene Ethylene trichloride Trethylene Trichloroethylene Narcogen Trichloren Tri Westrosol Trimar Chlorylen Trichloroethene Germalgene Chlorilen Chorylen Anamenth Densinfluat Fluate Trilen Trilene Trichloran Threthylene Ethylene, trichloro- (8Cl) Triclene Narkosoid Algylen Ethynyl trichloride
75-35-4	Ethene, 1,1-dichloro (9Cl) Vinylidene chloride Ethylene, 1,1-dichloro- (8Cl) VDC Vinylidene chloride 1,1-Dichloroethane Vinylidene chloride (11) 1,1-Dichloroethene Vinylidene dichloride 1,1-Dichloroethene 1,1-DCE Ethylene, 1,1-dichloro-(8Cl) 1,1-Dichloroethylene Sconatex	85-41-6	Phthalimide Isoindole-1,3-dione 1,3-Isoindole-dione 1,3-Isoindolinedione o-Phthalic imide
75-44-5	Carbonic dichloride (9Cl) Carbon dichloride oxide Carbonyl dichloride Carbonyl chloride CG Phosgene (8Cl) Chloroformyl chloride Phosgen Phosgene Carbon oxychloride	85-44-9	1,3-Isobenzofurandione (9Cl) 1,2-Benzenedicarboxylic acid anhydride 1,2-Benzenedicarboxylic anhydride

84-55-9-Contd
 ESEN
 Phthalic acid anhydride
 TGL 6525
 Vulkalant 8/C
 Retarder PD
 Retarder ESEN
 1,3-Phthalandione
 Phthalic anhydride (8C1)
 Phthalandione
 Retarder AK

87-86-5 Phenol, pentachloro- (8C1)(9C1)
 PCP (VAN)
 Lioprem
 Preventol P
 Dowicide 7
 Grundier Arbezol
 PCP/pesticide/
 Penchlorol
 EP 30
 Fungifen
 Penta
 RCi 49-162
 Permasan
 Pentachlorophenol
 Permatox DP-2
 Lauxtol
 Santophen 20

95-53-4 Benzenamine, 2-methyl- (9C1)
 o-Methylbenzenamine
 2-Methyl-1-aminobenzene
 2-Methylaniline
 1-Amino-2-methylbenzene
 o-Methylaniline
 o-Tolylamine
 2-Toluidine
 o-Toluidine (8C1)
 2-Methylbenzenamine
 o-Aminotoluene
 2-Aminotoluene

95-95-4 Phenol, 2,3,5-trichloro- (8C1)(9C1)
 Preventol 1
 2,4,5-Trichlorophenol
 TCP (VAN)
 Dowicide 2

97-55-6 o-Aminophenol

100-42-5 Benzene, ethenyl- (9C1)
 Phenethylene
 Styropol 50
 Phenylethene
 Styrol
 Styrene (8C1)
 Vinylbenzol
 Vinylbenzene
 Cinnamene
 Styrole
 Styrolene
 Phenylethylene

101-14-4 Benzenamine, 4,4'-methylenebis
 [2-chloro]-
 MOCA
 4,4'-Methylenebis(2-chloroaniline)
 4,4'-Methylenebis(2-chlorobenzenamine)
 4,4'-Methylene-bis-(2-chloroaniline)

101-77-9 Benzenamine, 4,4'-methylenebis- (9C1)
 4,4'-Methylenebis(aniline)
 4-(4-Aminobenzyl)aniline
 Epikure DDM
 p,p-Methylenedianiline
 Diaminodiphenylmethane (VAN)
 Epicure DDM
 4,4'-Diphenylmethanediamine
 DADPM
 HT 972
 4,4'-Diaminodiphenylmethane
 Aniline, 4,4'-methylenedi- (8C1)
 DAPM
 Di(4-aminophenyl)methane
 p,p'-Diaminodiphenylmethane
 Dianilinmethane (VAN)
 Bis(p-Aminobenzyl)aniline
 Methylenedianiline (VAN)
 MDA
 Dianilomethane (VAN)
 DDM
 Methylenebis(aniline) (VAN)
 Tonox

103-45-7 Phenylethanol acetate
 Acetic acid, phenethyl ester
 Acetic acid, 2-phenethyl ester
 Benzyl carbinyl acetate
 2-Phenylethanol acetate
 Phenethyl acetate
 .beta.-Phenethyl acetate
 2-Phenethyl acetate
 .beta.-Phenylethylacetate
 2-Phenylethylacetate

106-89-8 Oxirane, (chloromethyl)- (9C1)
 Gamma-Chloropropylene oxide
 Glycidyl chloride
 1,2-Epoxy-3-chloropropane
 Glycerol epichlorohydrin
 .gamma.-Chloropropylene oxide
 (Chloromethyl)ethylene oxide
 Oxirane, 2-(chloromethyl)-
 3-Chloropropylene oxide
 Chloropropylene oxide
 SKEKhG
 2,3-Epoxypropyl chloride
 1-Chloro-2,3-epoxypropane (VAN)
 3-Chloro-1,2-propylene oxide
 3-Chloro-1,2-epoxypropane (VAN)
 Propane, 1-chloro-2,3-epoxy- (8C1)
 Epichlorohydrin
 1c-Epichlorohydrin
 (Chloromethyl)oxirane
 3-Chloropropene-1,2-oxide
 2-Chloromethyl oxirane

106-93-4 Ethane, 1,2-dibromo- (8C1)(9C1)
 Seilbrom-85
 Nefis
 Ethylene bromide
 Dowfume W-85
 Dowfume W85
 Dowfume W-8
 Sanhyuum
 Glycol dibromide
 1,2-Dibromoethane
 sym-Dibromoethane

106-93-4-Contd	Ethylene dibromide 1c, 1b-Dibromoethane Isobromine D .alpha.,.beta.-Dibromoethane Solifume Aadibrom Bromofume EDB Pestermeister EDB-85
106-99-0	1,3-Butadiene Pyrrolylene Vinylethylene .alpha.,.gamma.-Butadiene Divinyl Erythrene Buta-1,3-diene Butadiene Biviny Biethylene
107-02-8	2-Propenal (9C1) 2-Propen-1-one Aqualin NSC 8819 Acrylic aldehyde Acrolein (8C1) Allyl aldehyde Propenal Prop-2-en-1-al Acrylaldehyde
107-06-2	Ethane, 1,2-dichloro- (8C1)(9C1) 1c, 1b-Dichloroethane sym-Dichloroethane EDC 1,2-Bichloroethane Ethylene dichloride .alpha.,.beta.-Dichloroethane Brocide Ethylene chloride 1,2-Dichloroethane Dutch liquid Glycol dichloride
107-11-9	2-Propene-1-amine 3-Aminopropene Allylamine (8C1) 3-Aminopropene Monoallylamine 2-Propenamine
107-13-1	2-Propenenitrile (9C1) Carbacryl VCN Acrylon Acrylonitrile (8C1) Propenenitrile Acritet Vinyl cyanide Fumigrain Cyanoethylene Ventox
107-30-2	Methane, chloromethoxy- (9C1) Monochloromethyl methyl ether Ether, chloromethyl methyl (8C1) Chloromethoxymethane Methoxychloromethane
107-30-2-Contd	Methoxymethyl chloride .alpha.,.alpha.-Dichlorodimethyl ether Monochlorodimethyl ether Chlorodimethyl ether Methyl chloromethyl ether Chloromethyl methyl ether
108-05-4	Acetic acid ethenyl ester (9C1) Acetic acid vinyl ester (8C1) Acetic acid, ethenyl ester Vinyl acetate Vinyl A monomer VyAc Ethenyl acetate 1-Acetoxyethylene
108-05-4	Benzene, methyl- (9C1) Methylbenzol Toluol Toluene (8C1) Methacide Methylbenzene Antisal 1a Phenylmethane
108-95-2	Phenol (8C1)(9C1) Monophenol Izal Carbolic acid Hydroxybenzene Phenic acid Oxybenzene Phenyl alcohol Monohydroxybenzene Phenyl alcohol Phenyl hydroxide Phenyl hydrate Benzenol Phenyl acid
109-86-4	Ethanol, 2-methoxy- (8C1)(9C1) 2-Methoxy-1-ethanol (VAN) 1b-Methoxyethanol (VAN) Ethylene glycol monomethyl ether 1-Hydroxy-2-methoxyethane (VAN) Poly-Solv EM Methoxyethanol Methyl cellosolve 2-Methoxyethanol Dowanol EM
110-80-5	Ethanol, 2-ethoxy- (8C1)(9C1) Oxitol Ethylene glycol ethyl ether 2-Ethoxyethanol Glycol monoethyl ether .beta.-Ethoxyethanol Emkanol Ethyl glycol Poly-Solv EE Cellosolve Ethylene glycol monoethyl ether Ethyl Cellosolve
111-96-6	Ethane, 1,1'-oxybis[2-methoxy-] (9C1) Ether, bis[2-methoxyethyl]- (8C1) Bis[2-methoxyethyl]ether 1,1'-Oxybis[2-methoxyethane]

- 117-81-7 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester (9C1)
Vestinol AH
Octyl phthalate (VAN)
Witcizer 312
Bisoflex 81
1,2-Benzenedicarboxylic acid, bis(ethylhexyl) ester
Eviplast 80
Eviplast 81
Sicol 150
Staflax DOP
Compound 889
Kodaflex DOP
Bisoflex DOP
Di-(2-ethylhexyl)-phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8C1)
Di(ethylhexyl) phthalate
DOP
Fleximel
DEHP
2-Ethylhexyl phthalate (VAN)
Vinicizer 80
Truflex DOP
Palatinol AH
Flexol DOP
Ethylhexyl phthalate
Phthalic acid dioctyl ester (VAN)
Octoil
Bis(2-ethylhexyl) phthalate
Dioctyl phthalate
Bis(2-ethylhexyl) 1,2-benzene-dicarboxylate (VAN)
Pittsburgh PX-138
- 117-82-8 1,2-Benzenedicarboxylic acid, bis(2-methoxyethyl) ester (9C1)
Bis(2-methoxyethyl) phthalate
Dimethoxy ethyl phthalate
Bis(2-methoxyethyl) 1,2-benzenedicarboxylate
Phthalic acid, bis(2-methoxyethyl) ester
di(methoxyethyl) phthalate
Phthalic acid, di(methoxyethyl) ester (8C1)
- 121-44-8 Ethanamine, N,N-diethyl- (9C1)
(Diethylamino)ethane
Triethylamine (8C1)
- 123-30-8 p-Aminophenol
- 123-91-1 1,4-Dioxane (9C1)
1,4-Dioxine, tetrahydro-
Dioxyethylene ether
Dioxane (VAN)
Diethylene ether
1,4-Diethylene dioxide
Diethylene oxide
Tetrahydro-1,4-dioxane
1,4-Dioxan (VAN)
p-Dioxane (8C1)
p-Dioxan
Dioxan
1,4-Dioxacyclohexane
- 126-99-8 1,3-butadiene, 2-chloro- (8C1)(9C1)
2-Chlorobutadiene
2-Chloro-1,3-butadiene
Chloroprene
- 127-18-4 Ethene, tetrachloro- (9C1)
Fedal-Un (VAN)
Ethene, 1,1,2,2-tetrachloro-
Didakene
Tetraleno (VAN)
Tetrachloroethylene
Perchloroethylene (VAN)
Ethylene, tetrachloro- (8C1)
Ethylene tetrachloride
PerSec (VAN)
Antisal 1 (VAN)
Tetrachloroethene (VAN)
Tetropil (VAN)
Perclene
Nema (VAN)
Perchloroethylene (VAN)
Tetraguer (VAN)
1,1,2,2-Tetrachloroethylene (VAN)
Ankilostin
Tetlen
Tetrachlorethylene (VAN)
Tetracap (VAN)
- 132-32-7 Dibenzofuran
- 134-32-7 1-Naphthalenamine (9C1)
2-Naphthalenamine (8C1)
Naphthalidine
.alpha.-Aminonaphthalene
1-Naphthalenamine
Fast Garnet Base 8
1-Naphthylamine (8C1)
.alpha.-Naphthylamine
1-Aminonaphthalene
C.I. 37265
C.I. Azoic Diazo Component 114
Naphthalidam
- 530-63-3 Quinoline
- 630-08-0 Carbon monoxide (8C1)(9C1)
Carbon oxide/CO/
- 636-21-5 Benzenamine, 2-methyl-, hydrochloride
o-Toluidine hydrochloride
2-Methylaniline hydrochloride
2-Methylbenzenamine hydrochloride
Hydroxchloride o-toluidine
- 868-85-9 Dimethyl hydrogen phosphite
Phosphonic acid, dimethyl ester
- 1309-37-1 Iron oxide
- 1314-62-1 Vanadium oxide/V2O5/ (8C1)(9C1)
Vanadic anhydride
C.I. 77938
Vanadium(V) oxide
Divanadium pentaoxide
Divanadium pentoxide
Vanadium pentoxide
- 1314-87-0 Lead sulfide /PbS/ (8C1)(9C1)
Lead monosulfide (VAN)
C.I. 77640
Natural lead sulfide (VAN)
Lead sulfide (VAN)

1314-87-0-Contd	7440-38-2
P 128	Arsenic (8Cl)(9Cl)
P 37	Arsenic-75
Lead(2) sulfide (VAN)	Arsenic black
Lead(II) sulfide (VAN)	
Plumbous sulfide (VAN)	7440-41-4
	Beryllium (8Cl)(9Cl)
1317-36-8	7440-43-9
Lead oxide (PbO) (9Cl)	Cadmium (8Cl)(9Cl)
1332-21-4	7440-47-3
Asbestos (8Cl)(9Cl)	Chromium (8Cl)(9Cl)
Asbestos fiber	Chrome
1332-37-2	7440-50-8
Iron oxide	Copper (8Cl)(9Cl)
1333-37-2	7440-61-1
Carbon black (8Cl)(9Cl)	Uranium (8Cl)(9Cl)
Corax P	Uranium 1/(238)U/
Statex N 550	Uranium-238
Witcoblak No. 100	
C.I. 77266	7440-62-2
Channel Black	Vanadium (8Cl)(9Cl)
Delussa Black FW	
TM-30	7440-66-6
Furnex N 765	Zinc (8Cl)(9Cl)
C.I. Pigment Black 7	
Carbon, amorphous	7664-93-9
Sterling SO 1	Sulfuric acid (8Cl)(9Cl)
Regol 99	Sulphuric acid
Sterling NS	Oil of vitriol
Printex 60	Dipping acid
Philblack N 550	Vitriol brown oil
Philblack N 765	BOV
Sterling N 765	
Columbia carbon	7704-39-9
Metso 99	Sulfur (8Cl)(9Cl)
Uranium dioxide	
Basic copper sulfate	7782-49-2
1345-25-1	Selenium (8Cl)(9Cl)
Iron oxide	
1429-50-1	8052-42-4
EDTMPA	Asphalt (8Cl)(9Cl)
	Asphaltum
1746-01-6	Mineral pitch
Dibenzo(b,e)(1,4)dioxin,	Judean pitch
2,3,7,8-tetrachloro- (9Cl)	Bitumen
Dioxin (herbicide contaminant) (VAN)	
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8Cl)	10043-92-2
TCDD	Radon (9Cl)
2,3,7,8-Tetrachlorodibenzo-1,4-dioxin	Radon 222
2,3,7,8-Tetrachlorodibenzo-p-dioxin	
7429-90-5	24458-48-8
Aluminum (8Cl)(9Cl)	n(-2-Methyl-2-nitropropyl)-
	nitrosaniline
7439-93-2	26471-62-5
Lithium (8Cl)(9Cl)	Benzene, 1,3-diisocyanatomethyl- (9Cl)
	Methylphenylene isocyanate
7439-96-5	1,3-Diisocyanatomethylbenzene
Managanese (8Cl)(9Cl)	Isocyanic acid, methyl-m-phenylene ester (8Cl)
	Methyl-m-phenylene isocyanic acid ester
7440-02-0	Methyl-m-phenylene isocyanate
Nickel (8Cl)(9Cl)	Diisocyanatotoluene
	Tolylene diisocyanate
7440-36-0	TDI
Antimony (8Cl)(9Cl)	Toluene diisocyanate
C.I. 77050	Tolylene isocyanate
Stibium	

63084-98-0

p-Aminophenol, sulfate salt

67845-79-8

o-Aminophenol, sulfate salt

ALPHABETIZED CHEMICAL NAME REFERENCE LIST

Name	CAS No.	Name	CAS No.
Aadibroom	106-93-4	Benzene, 1,3-diisocyanatomethyl- (9Cl)	26471-62-5
Acetic acid, ethenyl ester	108-05-4	Benzene, ethenyl- (9Cl)	100-42-5
Acetic acid ethenyl ester (9Cl)	108-05-4	Benzene, methyl- (9Cl)	102-05-4
Acetic acid, phenethyl ester	103-45-7	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester (9Cl)	117-81-7
Acetic acid, 2-phenethyl ester	103-45-7	1,2-Benzenedicarboxylic acid, bis(ethylhexyl)ester	117-81-7
Acetic acid vinyl ester (8Cl)	108-05-4	1,2-Benzenedicarboxylic acid, bis(methoxyethyl) ester (9Cl)	117-82-8
1-Acetoxyethylene	108-05-4	1,2-Benzenedicarboxylic acid anhydride	85-44-9
Acritet	107-13-1	1,2-Benzenedicarboxylic anhydride	85-44-9
Acrolein (8Cl)	107-02-8	Benzo(a)pyrene	56-22-5
Acrylaldehyde	107-02-8	Benzo(a)pyrene	100-95-2
Acrylic aldehyde	107-02-8	Benzo(a)pyrene	50-32-8
Acrylon	107-13-1	Benzo(a)pyrene	50-32-8
Acrylonitrile (8Cl)	107-13-1	Benzo(a)pyrene	50-32-8
Aerothene MM	75-09-2	Benzo(a)pyrene	50-32-8
Aerothene TT	71-55-6	Benzo(a)pyrene	50-32-8
Algylen	79-01-6	Benzo(a)pyrene	50-32-8
Allyl aldehyde	107-02-8	Benzo(a)pyrene	50-32-8
Allylamine (8Cl)	107-11-9	Benzo(a)pyrene	50-32-8
Aluminum (8Cl)(9Cl)	7429-90-5	Benzo(a)pyrene	50-32-8
4-(4-Aminobenzyl)aniline	101-77-9	Benzo(a)pyrene	50-32-8
1-Aminonaphthalene	134-32-7	Benzo(a)pyrene	50-32-8
alpha.-Aminonaphthalene	134-32-7	Benzo(a)pyrene	50-32-8
o-Aminophenol	97-55-6	Benzo(a)pyrene	50-32-8
o-Aminophenol, sulfate salt	67854-79-8	Benzo(a)pyrene	50-32-8
p-Aminophenol	123-30-8	Benzo(a)pyrene	50-32-8
p-Aminophenol, hydrochloride salt	50-78-5	Benzo(a)pyrene	50-32-8
p-Aminophenol, sulfate salt	63084-98-0	Benzo(a)pyrene	50-32-8
3-Aminopropene	107-11-9	Benzo(a)pyrene	50-32-8
1-Amino-2-methylbenzene	95-53-4	Benzo(a)pyrene	50-32-8
2-Aminotoluene	95-53-4	Benzo(a)pyrene	50-32-8
o-Aminotoluene	95-53-4	Benzo(a)pyrene	50-32-8
Anamenth	79-01-6	Benzo(a)pyrene	50-32-8
Aniline, 4,4'-methylenedi- (8Cl)	101-77-9	Benzo(a)pyrene	50-32-8
Ankilostin	127-18-4	Benzo(a)pyrene	50-32-8
(6)Annulene	71-43-2	Benzo(a)pyrene	50-32-8
Antimony (8Cl)(9Cl)	7440-36-0	Benzo(a)pyrene	50-32-8
Antisal 1a	108-05-4	Benzo(a)pyrene	50-32-8
Antisal 1 (VAN)	127-18-4	Benzo(a)pyrene	50-32-8
Aqualin	107-02-8	Benzo(a)pyrene	50-32-8
Arsenic (8Cl)(9Cl)	7440-38-2	Benzo(a)pyrene	50-32-8
Arsenic-75	7440-38-2	Benzo(a)pyrene	50-32-8
Arsenic black	7440-38-2	Benzo(a)pyrene	50-32-8
Asbestos (8Cl)(9Cl)	1332-21-4	Benzo(a)pyrene	50-32-8
Asbestos fiber	1332-21-4	Benzo(a)pyrene	50-32-8
Asphalt (8Cl)(9Cl)	8052-42-4	Benzo(a)pyrene	50-32-8
Asphaltum	8052-42-4	Benzo(a)pyrene	50-32-8
BFB	50-00-00	Benzo(a)pyrene	50-32-8
BOV	7664-93-9	Benzo(a)pyrene	50-32-8
Basic copper sulfate	1333-37-2	Benzo(a)pyrene	50-32-8
Benz(a)anthracene (8Cl)(9Cl)	56-55-3	Benzo(a)pyrene	50-32-8
Benz[a]anthracene	56-55-3	Benzo(a)pyrene	50-32-8
1,2-Benz(a)anthracene	56-55-3	Benzo(a)pyrene	50-32-8
1,2-Benz[a]anthracene	56-55-3	Benzo(a)pyrene	50-32-8
1,2-Benzanthracene	56-55-3	Benzo(a)pyrene	50-32-8
Benzanthracene	56-55-3	Benzo(a)pyrene	50-32-8
1,2:5,6-Benzanthracene	53-50-3	Benzo(a)pyrene	50-32-8
1,2-Benzanthrene	56-55-3	Benzo(a)pyrene	50-32-8
Benzanthrene	56-55-3	Benzo(a)pyrene	50-32-8
Benz[a]pyrene	50-32-8	Benzo(a)pyrene	50-32-8
Benz(a)pyrene	50-32-8	Benzo(a)pyrene	50-32-8
3,4-Benz[a]pyrene	50-32-8	Benzo(a)pyrene	50-32-8
3,4-Benz(a)pyrene	50-32-8	Benzo(a)pyrene	50-32-8
Benzenamine, 2-methyl- (9Cl)	95-53-4	Benzo(a)pyrene	50-32-8
Benzenamine, 4,4'-methylenebis- (9Cl)	101-77-9	Benzo(a)pyrene	50-32-8
Benzenamine, 4,4'-methylenebis [2-chloro]-	101-14-4	Benzo(a)pyrene	50-32-8
Benzenamine, 2-methyl-, hydrochloride	636-21-5	Benzo(a)pyrene	50-32-8
Benzene (8Cl)(9Cl)	71-43-2	Benzo(a)pyrene	50-32-8
		Benzene, 1,3-diisocyanatomethyl- (9Cl)	26471-62-5
		Benzene, ethenyl- (9Cl)	100-42-5
		Benzene, methyl- (9Cl)	102-05-4
		1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester (9Cl)	117-81-7
		1,2-Benzenedicarboxylic acid, bis(ethylhexyl)ester	117-81-7
		1,2-Benzenedicarboxylic acid, bis(methoxyethyl) ester (9Cl)	117-82-8
		1,2-Benzenedicarboxylic acid anhydride	85-44-9
		1,2-Benzenedicarboxylic anhydride	85-44

Name	CAS No.
Carbon disulphide	75-15-0
Carbon monoxide (8Cl)(9Cl)	630-08-0
Carbon oxide/CO/	630-08-0
Carbon oxychloride	75-44-5
Carbon sulfide/CS2/	75-15-0
Carbon tetrachloride (8Cl)	56-23-5
Carbena (VAN)	56-23-5
Carbonic dichloride (9Cl)	75-44-5
Carbonyl chloride	75-44-5
Carbonyl dichloride	75-44-5
Cellosolve	110-80-5
Channel Black	1333-37-2
Chloramine Blue 3B	71-55-6
Chlorilen	79-01-6
2-Chlorobutadiene	126-99-8
2-Chloro-1,3,-butadiene	126-99-8
Chlorodimethyl ether	107-30-2
1-Chloro-2,3-epoxypropane (VAN)	106-89-8
3-Chloro-1,2-epoxypropane (VAN)	106-89-8
Chloroethene	75-01-4
Chloroethylene	75-01-4
Chlorofluorocarbon-113	76-13-1
Chloroform (8Cl)	67-66-3
Chloroformyl chloride	75-44-5
Chloromethoxymethane	107-30-2
(Chloromethyl)ethylene oxide	106-89-8
Chloromethyl methyl ether	107-30-2
(Chloromethyl)oxirane	106-89-8
2-Chloromethyl oxirane	106-89-8
Chloroprene	126-99-8
3-Chloropropene-1,2-oxide	106-89-8
Chloropropylene oxide	106-89-8
3-Chloropropylene oxide	106-89-8
3-Chloro-1,2-propylene oxide	106-89-8
.gamma.-Chloropropylene oxide	106-89-8
Chlorotene	71-55-6
Chlorotene	71-55-6
Chlorothane NU	71-55-6
Chlorothene	71-55-6
Chlorothene NU	71-55-6
Chlorothene VG	71-55-6
Chlorylen	79-01-6
Chorylen	79-01-6
Chrome	7440-47-3
Chromium (8Cl)(9Cl)	7440-47-3
Cinnamene	100-42-5
C.1. 37265	134-32-7
C.1. 77050	7440-36-0
C.1. 77640	1314-87-0
C.1. 77266	1333-37-2
C.1. 77938	1314-62-1
C.1. Azotic Diazo Component 114	134-32-7
C.1. Pigment Black 7	1337-37-2
Coal naphtha	71-43-2
Columbia carbon	1337-37-2
Compound 889	117-81-7
Copper (8Cl)(9Cl)	7440-50-8
Corax P	1333-37-2
Cyanoethylene	107-13-1
Cyclohexatriene	71-43-2
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-(8Cl)(9Cl)	77-47-4
DADPM	101-77-9
DAPM	101-77-9
DBA (VAN)	53-50-3
1,1-DCE	75-35-4
DDM	101-77-9

Name	CAS No.
DEHP	117-81-7
DMF (amide)	68-12-2
DMF (VAN)	68-12-2
DMFA	68-12-2
DOP	117-81-7
Delussa Black FW	1337-37-2
Densinluat	79-01-6
Diaminodiphenylmethane (VAN)	101-77-9
p,p'-Diaminodiphenylmethane	101-77-9
4,4'-Diaminodiphenylmethane	101-77-9
Di(4-aminophenyl)methane	101-77-9
Dianilinemethane (VAN)	101-77-9
Dianilinomethane (VAN)	101-77-9
1,2:5,6-Dibenz[a]anthracene	53-70-3
1,2:5,6-Dibenz(a)anthracene	53-50-3
Dibenz(a,h)anthracene (8Cl)(9Cl)	53-70-3
1,2:5,6-Dibenzanthracene	53-50-3
1,2:5,6-Dibenzoanthracene	53-50-3
Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro-(9Cl)	1746-01-6
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro-(8Cl)	1746-01-6
Dibenzofuran	132-32-7
1,2-Dibromoethane	106-93-4
sym-Dibromoethane	106-93-4
1c,1b-Dibromoethane	106-93-4
.alpha.,.beta.-Dibromoethane	106-93-4
.alpha.,.alpha.-Dichlorodimethyl ether	107-30-2
1,1-Dichloroethane	75-35-4
1,2-Dichloroethane	107-06-2
1c,1b-Dichloroethane	107-06-2
.alpha.,.beta.-Dichloroethane	107-06-2
sym-Dichloroethane	107-06-2
1,1-Dichloroethylene	75-35-4
Dichloromethane	75-09-2
Didakene	127-18-4
(Diethylamino)ethane	121-44-8
1,4-Diethylene dioxide	123-91-1
Diethylene ether	123-91-1
Diethylene oxide	123-91-1
Di-(2-ethylhexyl)-phthalate	117-81-7
Di(ethylhexyl) phthalate	117-81-7
Dihydrooxirene (VAN)	75-21-8
1,3-Diisocyanatomethylbenzene	26471-62-5
Diisocyanatotoluene	26471-62-5
Dimethoxy ethyl phthalate	117-82-8
Di(methoxyethyl) phthalate	117-82-8
Dimethylene oxide (VAN)	75-21-8
Dimethylformamide	68-12-2
Dimethyl hydrogen phosphite	868-85-9
Diocetyl phthalate	117-81-7
1,4-Dioxacyclohexane	123-91-1
Dioxan	123-91-1
p-Dioxan	123-91-1
1,4-Dioxan (VAN)	123-91-1
1,4-Dioxane (9Cl)	123-91-1
Dioxane (VAN)	123-91-1
p-Dioxane (8Cl)	123-91-1
Dioxin (herbicide contaminant)(VAN)	1746-01-6
1,4-Dioxine, tetrahydro	123-91-1
Dioxyethylene ether	123-91-1
4,4'-Diphenylmethanediamine	101-77-9
Dipping acid	7664-93-9
Dithiocarbonic anhydride	75-15-0
Divanadium pentaoxide	1314-62-1
Divanadium pentoxide	1314-62-1
Divinyl	106-99-0
Dowanol EM	109-86-4

Name	CAS No.	Name	CAS No.
Dowicide 2	95-95-4	Flexol DOP	117-81-7
Dowicide 7	87-86-5	Fluate	79-01-6
Dowfume W-8	106-93-4	Flukoids (VAN)	86-23-5
Dowfume W-85	106-93-4	Fluorocarbon 113	76-11-1
Dowfume W85	106-93-4	Formaldehyde (8Cl)(9Cl)	50-00-0
Dutch liquid	107-06-2	Formaldehyde, gas	50-00-0
EDB	106-63-4	Formaldehyde solution	50-00-0
EDC	107-06-2	Formalin	50-00-0
EDTMPA	1429-50-1	Formalith	50-00-0
EP 30	87-86-5	Formamide, N,N-dimethyl- (8Cl)(9Cl)	68-12-0
ESEN	85-44-9	Formic aldehyde	50-00-0
ETO (VAN)	75-21-8	Formol	50-00-0
Emkanol	110-80-5	Freson 113	76-11-1
Epichlorohydrin	106-89-8	Frigen 113 TR-T	76-11-1
1c-Epichlorohydrin	106-89-8	Fumigrain	107-13-1
Epicure DDM	101-77-9	Fingifen	87-26-5
Epikure DDM	101-77-9	Furnex N 765	1332-37-7
1,2-Epoxy-3-chloropropane	106-89-8	Fyde	50-00-0
Epoxyethane	75-21-8	Gamma-Chloropropylene oxide	106-89-8
1,2-Epoxyethane (VAN)	75-21-8	Germalgene	79-01-6
2,3-Epoxypropyl chloride	106-89-8	Glycerol epichlorohydrin	106-89-8
Erythrene	106-99-0	Glycidyl chloride	106-89-8
Ethane, 1,1'-oxybis[2-methoxy-] (9Cl)	111-96-6	Glycol dibromide	106-93-4
Ethane, 1,1,1-trichloro- (8Cl)(9Cl)	71-55-6	Glycol dichloride	107-06-2
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Glycol monoethyl ether	110-80-5
Ethanamine,N,N-diethyl- (9Cl)	121-44-8	Graphlox	77-47-4
Ethane, 1,2-dibromo- (8Cl)(9Cl)	106-93-4	Grundier Arbezol	87-86-5
Ethane, 1,2-dichloro- (8Cl)(9Cl)	107-06-2	HPS 1655	77-47-4
Ethanol, 2-ethoxy- (8Cl) (9Cl)	110-80-5	HT 972	101-77-9
Ethanol, 2-methoxy- (8Cl)(9Cl)	109-86-4	1,2,3,4,5,5-Hexachloro-1,3-cyclopentadiene	77-47-4
Ethene, chloro- (9Cl)	75-01-4	Hexachlorocyclopentadiene	77-47-4
Ethene, 1,1-dichloro (9Cl)	75-35-4	Hydrochloride o-toluidine	636-21-5
Ethene oxide	75-21-8	Hydroxybenzene	108-95-2
Ethene, 1,1,2,2-tetrachloro-	127-18-4	.beta.-Hydroxyethylbenzene	60-12-8
Ethene, tetrachloro- (9Cl)	127-18-4	1-Hydroxy-2-methoxyethane (VAN)	109-66-4
Ethene, trichloro- (9Cl)	79-01-6	Inhibisol	71-55-6
Ethenyl acetate	108-05-4	Iron oxide	1309-37-1
Ether, bis[2-methoxyethyl]- (8Cl)	111-96-6	Iron oxide	1332-37-2
Ether, chloromethyl methyl (8Cl)	107-30-2	Iron oxide	1345-25-1
Ethynyl trichloride	76-01-6	1,3-Isobenzofurandione (9Cl)	85-44-9
2-Ethoxyethanol	110-80-5	Isobrome D	106-93-4
.beta.-Ethoxyethanol	110-80-5	Isocyanic acid, methyl-m-phenylene ester (8Cl)	26471-62-5
Ethyl Cellosolve	110-80-5	Isoindole-1,3-dione	85-41-6
Ethylene bromide	106-93-4	1,3-Isoindoleione	85-41-6
Ethylene chloride	107-06-2	1,3-Isoindolinedione	85-41-6
Ethylene, chloro- (8Cl)	75-01-4	Ivalon	50-00-0
Ethylene dibromide	106-93-4	Izal	108-95-2
Ethylene dichloride	107-06-2	Judean pitch	8052-42-4
Ethylene, 1,1-dichloro-(8Cl)	75-35-4	Kodaflex DOP	117-81-7
Ethylene glycol ethyl ether	110-80-5	Lauxtol	87-86-5
Ethylene glycol monoethyl ether	110-80-5	Lead, tetraethyl-	78-00-2
Ethylene glycol monomethyl ether	109-86-4	Lead monosulfide (VAN)	1314-87-0
Ethylene oxide (8Cl)	75-21-8	Lead oxide (PbO)(9Cl)	1317-36-8
Ethylene tetrachloro- (8Cl)	127-18-4	Lead sulfide/PbS/ (8Cl)(9Cl)	1314-87-0
Ethylene tetrachloride	127-18-4	Lead sulfide (VAN)	1314-87-0
Ethylene, trichloro- (8Cl)	79-01-6	Lead(II) sulfide (VAN)	1314-87-0
Ethylene trichloride	79-01-6	Lead(2) sulfide (VAN)	1314-87-0
Ethyl glycol	110-80-5	Liroprem	87-86-5
2-Ethylhexyl phthalate (VAN)	117-81-7	Lithium (8Cl)(9Cl)	7439-93-2
Ethylhexyl phthalate	117-81-7	Lysoform	50-00-0
Eviplast 80	117-81-7	MDA	101-77-9
Eivplast 81	117-81-7	MOCA	101-14-4
F-113	76-13-1	Managanese (8Cl)(9Cl)	7489-96-5
Fannoform	50-00-0	Marsh gas	74-82-2
Fast Garnet Base B	134-32-7	Methacide	108-05-4
Fedal-Un (VAN)	127-18-4	Methaldehyde	50-00-0
Fleximel	117-81-7		

Name	CAS No.
Methanal	50-00-0
Methane (8Cl)(9Cl)	74-82-8
Methane, chloromethoxy- (9Cl)	107-30-2
Methane, dichloro- (8Cl)(9Cl)	75-09-2
Methane, tetrachloro- (9Cl)	56-23-5
Methane, trichloro- (9Cl)	67-66-3
Methoxychloromethane	107-30-2
2-Methoxyl-1-ethanol (VAN)	109-86-4
2-Methoxyethanol	109-86-4
1b-Methoxyethanol	109-86-4
Methoxyethanol	109-86-4
Methoxymethyl chloride	107-30-2
Methyl aldehyde	50-00-0
2-Methyl-1-aminobenzene	95-53-4
2-Methylaniline	95-53-4
o-Methylaniline	95-53-4
2-Methylaniline hydrochloride	636-21-5
Methylbenzene	108-05-4
2-Methylbenzenamine	95-53-4
o-Methylbenzenamine	95-53-4
2-Methylbenzenamine hydrochloride	636-21-5
Methylbenzol	108-05-4
Methyl cellosolve	109-86-4
Methyl chloroform	71-55-6
Methylchloroform	71-55-6
Methyl chloromethyl ether	107-30-2
Methylenbis(aniline) (VAN)	101-77-9
4,4'-Methylenebis(aniline)	101-77-9
4,4'-Methylenebis(benzenamine)	101-77-9
4,4'-Methylenebis(2-chloroaniline)	101-14-4
4,4'-Methylenebis-(2-chloroaniline)	101-14-4
4,4'-Methylenebis(2-chlorobenzenamine)	101-14-4
Methylene chloride	75-09-2
Methylenedianiline (VAN)	101-77-9
p,p-Methylenedianiline	101-77-9
Methylene dichloride	75-09-2
Methylene oxide	50-00-0
Methyl hydride	74-82-8
n(2-Methyl-2-nitropropyl)-nitrosaniline	24458-48-8
Methyl-m-phenylene isocyanate	26471-62-5
Methylphenylene isocyanate	26471-62-5
Methyl-m-phenylene isocyanic acid ester	26471-62-5
Methyltrichloromethane	71-55-6
Metso 99	1333-37-2
Mineral pitch	8052-42-4
Monoallylamine	107-11-9
Monochlorodimethyl ether	107-30-2
Monochloroethylene	75-01-4
Monochloromethyl methyl ether	107-30-2
Monohydroxybenzene	108-95-2
Monophenol	108-95-2
Morbicid	50-00-0
NSC 8819	107-02-8
1-Naphthalenamine (9Cl)	134-32-7
2-Naphthalenamine (8Cl)	134-32-7
1-Naphthalamine	134-32-7
a-Naphthylamine (8Cl)	134-32-7
.alpha.-Naphthylamine	134-32-7
Naphthalidam	134-32-7
Naphthalidine	134-32-7
Narcogen	79-01-6
Narkoti	75-09-2
Narkosoid	79-01-6
Natural lead sulfide (VAN)	1314-87-0
Necatorina	56-23-5
Nefis	106-93-4
Nema (VAN)	127-18-4

Name	CAS No.
N-Formyldimethylamine	68-12-2
Nickel (8Cl)(9Cl)	7440-02-7
N,N-Dimethylformalde	68-12-2
Octoil	117-81-7
Octyl phthalate (VAN)	117-81-7
Oil of vitriol	7664-93-9
Oxacyclopropane	75-21-8
Oxane (VAN)	75-21-8
Oxidoethane	75-21-8
Oxirane (9Cl)	75-21-8
Oxirane, (chloromethyl)- (9Cl)	106-89-8
Oxirane, 2-(chloromethyl)-	106-89-8
Oxirene, Dihydro	75-21-8
Oxitol	110-80-5
Oxomethane	50-00-0
Oxybenzene	108-95-2
1,1'-Oxybis[2-methoxyethane]	111-96-6
Oxyfume	75-21-8
Oxyfume 12	75-21-8
Oxymethylene	50-00-0
P 37	1314-87-0
P 128	1314-87-0
PCP (VAN)	87-86-5
PCP/pesticide/	87-86-5
PEA	60-12-8
.beta.-PEA	60-12-8
Palatinol AH	117-81-7
Paraform (VAN)	50-00-0
Penchlorol	87-86-5
Penta	87-86-5
Pentachlorophenol	87-86-5
Perclene	127-18-4
Perchlorocyclopentadiene	77-47-4
Perchloroethylene (VAN)	127-18-4
Perchloromethane	56-23-5
Permasan	87-86-5
Permatox DP-2	87-86-5
PerSec (VAN)	127-18-4
Pestermeister EDB-85	106-93-4
Phene	71-43-2
Phenethanol	60-12-8
.beta.-Phenethanol	60-12-8
Phenethyl acetate	103-45-7
.beta.-Phenethyl acetate	103-45-7
2-Phenethyl acetate	103-45-7
2-Phenethyl alcohol	60-12-8
.beta.-Phenethyl alcohol	60-12-8
Phenethylene	100-43-5
Phenic acid	102-95-2
Phenol (8Cl)(9Cl)	108-95-2
Phenol, pentachloro- (8Cl)(9Cl)	87-86-5
Phenol, 2,3,5-trichloro- (8Cl)(9Cl)	95-95-4
Phenyl alcohol	108-95-2
Phenylethanol	60-12-8
2-Phenylethanol	60-12-8
Phenylethanol acetate	103-45-7
2-Phenylethanol acetate	103-45-7
Phenylethene	100-42-5
.beta.-Phenylethyl acetate	103-45-7
2-Phenylethyl acetate	103-45-7
Phenylethyl alcohol	60-12-8
.beta.-Phenylethyl alcohol	60-12-8
2-Phenylethyl alcohol	60-12-8
Phenylethylene	100-42-5
Phenyl hydrate	108-95-2

Name	CAS No.	Name	CAS No.
Phenyl hydride	71-43-2	Stibium	7440-36-0
Phenyl hydroxide	108-95-2	Styrene (8Cl)	100-42-5
Phenylic acid	108-95-2	Styrol	100-42-5
Phenylic alcohol	108-95-2	Styrole	100-42-5
Phenylmethane	108-05-4	Styrolene	100-42-5
Philblack N 550	1333-37-2	Styropol 50	100-42-5
Philblack N 765	1333-37-2	Sulfur (8Cl)(9Cl)	7704-39-9
Phosgen	75-44-5	Sulfuric acid (8Cl)(9Cl)	7664-93-9
Phosgene (8Cl)	75-44-5	Sulphuric acid	7664-93-9
Phosphonic acid, dimethyl ester	868-85-9	Superlysoform	50-00-0
Phosphoric acid, triethyl ester	868-85-9	.alpha.-T.	71-55-6
Phthalandione	85-44-9	TCDD	1746-01-6
1,3-Phthalandione	85-44-9	TCP (VAN)	95-95-4
o-Phthalic acid	85-41-6	DTI	26471-62-5
Phthalic acid, bis(2-ethylhexyl) ester (8Cl)	117-81-7	TEL	78-00-2
Phthalic acid, bis(2-methoxyethyl) ester	117-82-8	TGL 6525	85-44-9
Phthalic acid, di(methoxyethyl) ester (8Cl)	117-82-8	TM-30	1333-37-2
Phthalic acid anhydride	85-44-9	Tetlen	127-12-4
Phthalic acid dioctyl ester (VAN)	117-81-7	Tetracap (VAN)	127-12-4
Phthalic anhydride (8Cl)	85-44-9	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6
Phthalimide	85-41-6	2,3,7,8-Tetrachlorodibenzo-1,4-dioxin	1746-01-6
Pittsburgh PC-138	117-81-7	Tetrachloroethene (VAN)	127-12-4
Plumbane, tetraethyl- (8Cl)(9Cl)	78-00-2	Tetrachlorethylene	127-18-4
Plumbous sulfide (VAN)	1314-87-0	Tetrachloroethylene	127-18-4
Poly-Solv EE	110-80-5	1,1,2,2-Tetrachloroethylene (VAN)	127-18-4
Poly-Solv EM	109-86-4	Tetrachloromethane	56-23-5
Preventol 1	95-95-4	Tetraethyl Lead	78-00-2
Preventol P	87-86-5	Tetraethyllead	78-00-2
Printex 60	1333-37-2	Tetraethylplumbane	78-00-2
Propane, 1-chloro-2,3-epoxy- (8Cl)	106-89-8	Tetraform (VAN)	56-23-5
Propenal	107-02-8	Tetraquer (VAN)	127-18-4
2-Propenal (9Cl)	107-02-8	Tetrahydro-1,4-dioxane	123-91-1
Prop-2-en-1-al	107-02-8	Tetrafinol	56-23-5
2-Propene-1-amine	107-11-9	Tetralone (VAN)	127-18-4
2-Propenamine	107-11-9	Tetraphene	56-55-3
Propenenitrile	107-13-1	Tetraresol (VAN)	56-23-5
2-Propenenitrile (9Cl)	107-13-1	Tetropil (VAN)	127-18-4
Pyrobenzol	71-43-2	T-Gas	75-21-8
Pyrobenzole	71-43-2	Threthylene	79-01-6
Pyrrolylene	106-99-0	Threthylene	79-01-6
Quinoline	530-63-3	Toluene (8Cl)	108-05-4
R 10	56-23-5	Toluene diisocyanate	26471-62-5
R20 (VAN)	67-66-3	o-Toluidine (8Cl)	95-53-4
R 20/refrigerant	67-66-3	o-Toluidine hydrochloride	636-21-5
R 30	75-09-2	o-Tolyamine	95-53-4
RCi 49-162	87-86-5	Toluol	108-05-4
Radon (9Cl)	10043-92-2	2-Toluidine	95-53-4
Radon 222	10043-92-2	Tolylene diisocyanate	26471-62-5
Regol 99	1333-37-2	Tolylene isocyanate	26471-62-5
Retarder AK	85-44-9	Tonox	101-77-9
Retarder ESEN	85-44-9	Trethylene	79-01-6
Retarder PD	85-44-9	Tri	79-01-6
Sanhyuum	106-93-4	Trichloran	79-01-6
Santophen 20	87-86-5	Trichloren	79-01-6
Sconatex	75-35-4	1,1,1-Trichloroethane	71-55-6
Seilbrom-85	106-93-4	.alpha.-Trichloroethane	71-55-6
Selenium (8Cl)(9Cl)	7782-49-2	Trichloroethane (VAN)	71-55-6
Sicol 150	117-81-7	Trichloroethene	79-01-6
SKEKhG	106-89-8	Trichloroethylene	79-01-6
Solaesthin	75-09-2	Trichloroform	67-66-3
Solifume	106-93-4	Trichloromethane	67-66-3
Solmethine	75-09-2	2,4,5-Trichlorophenol	95-95-4
Staflax DOP	117-81-7	Trichlorotrifluoroethane (VAN)	76-13-1
Statex N 550	1333-37-2	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1
Sterling N 765	1333-37-2	1,1,2-Trifluoro-1,2,2-trichloroethane	76-13-1
Sterling NS	1333-37-2	Triclene	79-01-6
Sterling SO 1	1333-37-2	Triethylamine (8Cl)	121-44-8

<u>Name</u>	<u>CAS No.</u>
Triethyl phosphate	78-40-0
Trilen	79-01-6
Trilene	79-01-6
Trimar	79-01-6
Truflex DOP	117-81-7
UCON 113	76-13-1
Ucon Fluorocarbon 113	76-13-1
Univerm (VAN)	56-23-5
Uranium (8Cl)(9Cl)	7440-61-1
Uranium 1/(238)U/	7440-61-1
Uranium-238	7440-61-1
Uranium dioxide	1333-37-2
VCN	107-13-1
VDC	75-35-4
Vanadic anhydride	1314-62-1
Vanadium (8Cl)(9Cl)	7440-62-2
Vanadium(V) oxide	1314-62-1
Vanadium oxide/V2O5/ (8Cl)(9Cl)	1314-62-1
Vanadium pentoxide	1314-62-1
Ventox	107-13-1
Vermoestricid (VAN)	56-23-5
Vestinol AH	117-81-7
Vincizer 80	117-81-7
Vinyl acetate	108-05-4
Vinyl A monomer	108-05-4
Vinylbenzene	100-42-5
Vinylbenzol	100-42-5
Vinyl chloride	75-01-4
Vinyl cyanide	107-13-1
Vinyl C monomer	75-01-4
Vinylethylene	106-99-0
Vinylidene chloride	75-35-4
Vinylidene chloride (11)	75-35-4
Vinylidene dichloride	75-35-4
Vitriol brown oil	7664-93-9
Vulkalent B/C	85-44-9
VyAc	108-05-4
Westrosol	79-01-6
Witcizer 312	117-81-7
Witcoblak No. 100	1333-37-2
Zinc (8Cl)(9Cl)	7440-66-6

PART 4. OTHER SOURCES OF INFORMATION ON ONGOING RESEARCH

1. National Toxicology Program Fiscal Year 1984 Annual Plan.
Dept. of Health and Human Services
Feb. 84, 307p, NTP-84-023.
Available from: National Toxicology Program Public Information Office,
MD B2-04, P.O. Box 12233, Research Triangle Park, NC 27709.
(919)541-3991

Abstract: The National Toxicology Program (NTP) was established by the Department of Health and Human Services (HHS) to coordinate and provide information about potentially toxic chemicals to regulatory and research agencies and to strengthen the science base in toxicology. The NTP includes relevant activities by HHS agencies including the National Cancer Institute (NCI), National Institute of Environmental Health Sciences (NIEHS), the Food and Drug Administration (FDA), and the National Institute for Occupational Safety and Health (NIOSH). The Annual Plan describes the NTP's completed, ongoing, and planned activities in toxicology research and testing. An index of chemicals being studied is also included. NTP programs in the following categories are described: cellular and genetic toxicology, carcinogenesis testing, toxicologic characterization, benzidine-dye initiative, chemical disposition, chemical pathology, cutaneous toxicology, immunological testing, neurobehavioral toxicology, pulmonary toxicology, safety evaluations of orthophthalic acid esters and related compounds, and reproductive and developmental toxicology. Coordinative management activities are also described. These include: chemical nomination and selection, chemical and laboratory test management, chemistry resources, chemical repositories, laboratory animal resources, chemical health and safety, data management and analysis, information generation and dissemination, and the annual report on carcinogens.

2. National Toxicology Program Review of Current DHHS, DOE, and EPA Research Related to Toxicology, Fiscal Year 1984.
Dept. of Health and Human Services
Feb. 84, 228p, NTP-84-024.
Available from: National Toxicology Program Public Information Office,
MD B2-04, P.O. Box 12233, Research Triangle Park, NC 27709.
(919)541-3991

Abstract: The document reviews basic toxicology research, toxicology testing, and toxicology method development activities in progress at the Department of Health and Human Services (HHS), the Department of Energy (DOE) and the Environmental Protection Agency (EPA). Summaries of the dollar and manpower support for agency activities in toxicology are included. A narrative of the roles of each agency in toxicology research is given, followed by listings of projects. The test method development section contains abbreviated summaries of each test method development project, the performing organization, and project number.

The toxicology testing section lists information on each testing project including the chemical name, CAS Number, type of study, status, performing organization and project number of EPA, DHHS, and DOE toxicology studies. The toxicology testing list is indexed in three ways: by chemical name, CAS number, and type of study.

3. PB84-213958 PC A19/MF A01
Chemical Activities Status Report. Fourth Edition, Volume I.
Eleanor T. Merrick
Environmental Protection Agency, Washington, D.C., Office of Pesticides and Toxic Substances
Feb. 84, 426p, EPA-560/TIIS-84-001A.
Available from: National Technical Information Service (NTIS),
Springfield, VA 22161. (703)487-4650

Abstract: The EPA Chemical Activities Status Report (EPACASR) is a compilation of EPA activities relating to chemical substances. Types of documents or activities listed in the data base include technical assistance information, pre-regulatory assessments, chemical and biological testing programs, and monitoring programs, both completed and in progress. Chemical-specific regulatory activities under the Clean Air Act, Clean Water Act, Safe Drinking Water Act, Federal Insecticide, Fungicide, and Rodenticide Act, Toxic Substances Control Act, Resource Conservation and Recovery Act, Superfund, Atomic Energy Act, and Energy Research and Development Act are also listed. Volume I provides names and synonyms for chemicals included in the data base, both alphabetically and by CAS registry number. Volume II contains brief descriptions of EPA activities relating to each chemical.

4. PB84-213966 PC A99/MF E04
Chemical Activities Status Report. Fourth Edition, Volume II.
Eleanor T. Merrick
Environmental Protection Agency, Washington, D.C., Office of Pesticides and Toxic Substances
Feb. 84, 725p, EPA-560/TIIS-84-001B.
Available from: National Technical Information Service (NTIS),
Springfield, VA 22161. (703)487-4650

Abstract: See PB84-213958 above.

5. Managers Guide to EPA Activities on Toxic and Hazardous Chemicals.
Environmental Protection Agency, Washington, D.C., Office of Toxic Substances
Sept. 84, 321p, TR-540-11.
Available from: Chemical Coordination Staff, Office of Toxic Substances, Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460. (202) 475-6104

Abstract: This report provides information on the status of EPA activities on toxic and hazardous chemicals. The report is limited to chemical-specific evaluation and regulatory activities under seven statutes: Clean Air Act, Clean Water Act, Safe Drinking Water Act, Superfund, the Resource Conservation and Recovery Act, Federal Insecticide, Fungicide and Rodenticide Act, and Toxic Substances Control Act. A tabular matrix is presented with the seven statutes along the horizontal axis, chemicals along the vertical axis, and project status in the cells of the matrix. The types of projects listed in the matrix include several kinds of regulatory assessments (such as health, risk, source, exposure and pre-regulatory assessments) as well as dates of proposal and final rulemakings under the seven statutes. Completed projects and current or planned activities scheduled to occur in fiscal year 1983 through 1985 are included. Depending on the statute under which a chemical is being evaluated or regulated, the projects listed may focus on air or water media or they may be multimedia projects. Indices which include a list of common chemical nomenclature synonyms are also provided in the back of the document. The information presented in this document was current as of June 1984.

APPENDIX

EPA OFFICE OF DRINKING WATER PROJECTS¹

The EPA Office of Drinking Water (ODW) has studies underway on several potentially toxic chemicals as part of its regulatory development activities. Information on these projects has been included in the Air Toxics Information Clearinghouse ongoing research document because many toxic drinking water contaminants being studied by ODW are also potential air pollutants. Clearinghouse users may find health information generated by ODW projects useful. For further information on the projects described below, contact: Joseph Cotruvo or Craig Vogt, Criteria and Standards Division, Office of Drinking Water, U. S. EPA, 401 M Street, SW, Washington, DC, 20016 (telephone (202) 382-7575).

Under the Safe Drinking Water Act, the U. S. EPA is required to publish regulations which apply to public drinking water systems and control specific contaminants which in the Administrator's judgment "may have any adverse effect on the health of persons". Under the Act, ODW must set "recommended maximum contaminant levels" (RMCLs), which are nonenforceable health goals, and "maximum contaminant levels" (MCLs), which are enforceable standards. The RMCLs are to be set at a level where no adverse human health effects are anticipated to occur and an adequate margin of safety must be allowed. The MCLs are set as close to the RMCL as feasible, depending on technical feasibility and cost.

The Office of Drinking Water has scheduled regulatory development in 4 phases depending upon the type of contaminant:

- o Phase 1 - volatile synthetic organic chemicals (VOCs);
- o Phase 2 - synthetic organic chemicals (SOCs),
inorganic chemicals (IOCs), and
microbial contaminants;
- o Phase 3 - radionuclides;
- o Phase 4 - disinfectant by-products.

Tables 1 through 3 list chemicals being considered under each of these phases.

In general, the regulatory approach for all phases will be similar. First, an advance notice of proposed rule-making (ANPRM) will be published, followed by a public comment period. Then, studies on health effects and frequency of specific constituents in drinking water will be completed and RMCLs will be proposed. A public comment period will follow. Next, RMCLs will be promulgated and MCLs will be proposed. After another comment period, MCLs will be promulgated. Table 4 gives a schedule for these activities.

It may be determined that regulations are not warranted for some of the chemicals being studied under each phase. For such chemicals, ODW will provide nonregulatory health guidance to the states or water systems.

TABLE 1. LIST OF PHASE 1 CHEMICALS

Volatile Synthetic Organic Chemicals (VOCs)

Tetrachloroethylene
Trichloroethylene
1,2-Dichloroethane
Carbon tetrachloride
Vinyl chloride
Benzene
1,1-Dichloroethylene
1,1,1-Trichloroethane
para-Dichlorobenzene

TABLE 2. LIST OF PHASE 2 CHEMICALS

<u>Inorganic Chemicals</u>	<u>Organic Chemicals</u>
Arsenic	Endrin
Cadmium	Methoxychlor
Lead	2,4-D
Nitrate	Lindane
Silver	Toxaphene
Barium	2,4,5-TP
Chromium	cis- and trans- 1,2-Dichloroethylene
Mercury	Dichlorobenzene(s)
Asbestos	Aldicarb
Sulfate	Chlordane
Copper	Endothall
Nickel	Carbofuran
Selenium	Heptachlor
Fluoride	Styrene
	Polychlorinated biphenyls (PCBs)
	Dibromochloropropane (DBCP)
	1,2-Dichloropropane
	Pentachlorophenol
	Alachlor
	Ethylene dibromide (EDB)
	Epichlorohydrin
	Xylene
	Toluene
	2,3,7,8-TCDD (dioxin)
	Chlorobenzene
	Hexachlorobenzene
	Lindane
	Ethyl benzene

TABLE 3. LIST OF PHASE 3 AND 4 CHEMICALS

<u>Phase 3: Radionuclides</u>	<u>Phase 4: Disinfection By-products</u>
Radium 226	Trihalomethanes
Radium 228	Haloacid derivatives
Gross alpha particle activity	Chloramines
Beta particle and photon radioactivity	Residual chlorine(?)
Uranium	Dihaloacetoneitriles
Radon	Chlorine dioxide and ions

TABLE 4. NATIONAL REVISED PRIMARY DRINKING WATER REGULATIONS SCHEDULE

	<u>Phase</u>	<u>Date</u>
Phase 1: VOCs		
	Advance notice of proposed rule-making	Mar. 4, 1982
	Propose RMCLs	June 12, 1984
	Final RMCLs, propose MCLs	May 1985*
	Final MCLs	Apr. 1986*
Phase 2: SOCs, IOCs, microbials		
	Advance notice of proposed rule-making	Oct. 5, 1983
	Propose RMCLs	May 1985*
	Final RMCLs, propose MCLs	Feb. 1986*
	Final MCLs	Dec. 1985*
Phase 3: Radionuclides		
	Advance notice of proposed rule-making	Oct. 5, 1983
	Propose RMCLs	Dec. 1985*
Phase 4: Disinfection by-products		
	Advance notice of proposed rule-making	1986

*Estimated dates based on agency review lasting approximately three months.

¹Cotruvo, J. A. and C. Vogt. Development of Revised Primary Drinking Water Regulations. American Water Works Association Journal, Vol. 76, No. 11, pp. 34-38. November 1984.