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Agency

Office of Pesticides
and Toxic Substances
Washington, DC 20460

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Toxic Substances

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OFFICE OF TOXIC SUBSTANCES SCIENTIFIC AND TECHNICAL REPORTS: 1983 - 1988

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OFFICE OF TOXIC SUBSTANCES SCIENTIFIC AND TECHNICAL REPORTS 1983 - 1988

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OFFICE OF PESTICIDES AND TOXIC SUBSTANCES
U.S. ENVIRONMENTAL PROTECTION AGENCY
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D12	580
D13	630
D14	680
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D18	880
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Report Number:	Report No. EPA/560/5-85-029
NTIS Order Number:	PB86-158946
NTIS Price Code:	PC A10/MF A01 (Please refer to "NTIS Price Schedules" on page ii).

Acute Hazardous Events Data Base
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Report No.: EPA/560/5-85/029
PB86-158946
NTIS Prices: PC A10/MF A01

Airborne Asbestos Levels in Schools
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PB83-114405
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Analytical Method: The Analysis of By-Product Chlorinated Biphenyls in Water. Revision 2 (Special rept. Sep 84-May 85)
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PB86-109105
NTIS Prices: PC A04/MF A01

Analytical Method: The Analysis of By-Product Chlorinated Biphenyls in Air. Revision 2 (Special rept. Sep 84-May 85)
Report No.: SR-2; EPA/560/5-85/011
PB86-109097
NTIS Prices: PC A04/MF A01

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(Special rept. Sep 84-May 85)
Report No.: SR-1; EPA/560/5-85/010
PB86-109089
NTIS Prices: PC A04/MF A01

Analytical Methods for By-Products PCBs--Preliminary Validation and Interim Methods (Interim rept. no 4, 24 Apr-31 Aug 82)
Report No.: EPA-560/5-82-006
PB83-127696
NTIS Prices: PC A11/MF A01

Asbestos En Edificios: Guia para el Personal di Servicio y Mantenimiento (Asbestos in Buildings: Guidance for Service and Maintenance Personnel)
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Report No.: EPA/560/5-84/006
PB85-136653
NTIS Prices: PC A11/MF A01

Asbestos in Buildings: Guidance for Service and Maintenance Personnel
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PB87-120978
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PB88-230909
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Assessment of Airborne Exposure and Dermal Contact to Acrylamide during Chemical Grouting Operations (Final rept.)
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Report No.: NHATS-SS-01; EPA/560/5-85/025
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Broad Scan Analysis of Human Adipose Tissue. Volume 1. Executive Summary (Final rept.)
Report No.: EPA/560/5-86/035
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PB88-100375
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DE83006368
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Chemicals Identified in Human Biological Media, a Data Base. Fifth Annual Report, October 1983, Volume 6, Part 2
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DE83006369
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Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
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NTIS Prices: PC A99/MF E12

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NTIS Prices: PC A04/MF A01

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NTIS Prices: PC A04/MF A01

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Report No.: EPA-560/TIIS-82-002A
NTIS Prices: PC A18/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB83-181925
Chemical Activities Status Report. Third Edition, Volume II
(Toxics Integration Information series)
Report No.: EPA-560/TIIS-82-002B
NTIS Prices: PC A18/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB84-213966
Chemical Activities Status Report, Fourth Edition. Volume 2
(Toxics Integration Information series)
Report No.: EPA-560/TIIS-84-001B
NTIS Prices: PC A99/MF E04

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB84-213958
Chemical Activities Status Report, Fourth Edition. Volume 1
(Toxics Integration Information series)
Report No.: EPA-560/TIIS-84-001A
NTIS Prices: PC A19/MF A01

Environmental Protection Agency, Washington, DC.
PB86-155264/XAB
Chemical Emergency Preparedness Program: Chemical Profiles
(Interim guidance)
Report No.: EPA/560/7-85/013
NTIS Prices: PC A99/MF E10

Environmental Protection Agency, Washington, DC.
PB86-155256/XAB
Chemical Emergency Preparedness Program: Organizing the Community, Gathering Site-Specific Information, Contingency Plan Development, Contingency Plan Appraisal, The Criteria, Appendices
(Interim guidance)
Report No.: EPA/560/7-85/012
NTIS Prices: PC A08/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB83-130286
Chemical Substances Designation
Dec 81 1090p-in 4v
Set includes:EPA-560/TIIS-82-006; EPA-560/TIIS-82-005; EPA-560/TIIS-82-004; EPA-560/TIIS-82-003
NTIS Prices: PC E99

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB88-193255/XAB
Chemicals Subject to Reporting Under the Emergency Planning and Community Right to Know Act (Title 3 of the Superfund Ammendments and Reauthorization Act of 1986), January 1988 (for Microcomputers)
(Data file)
Report No.: EPA/560/4-88/003; EPA/DF/DK-88/044
NTIS Prices: CP D01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB83-245175
Directory of Federal and International Coordinating Groups for Toxic Substances, 3rd Edition
Report No.: EPA-560/TIIS-83-004
NTIS Prices: PC A04/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-186532/XAB
Environmental Fate Data Base (ENVIROFATE): Chemical Identification Information File (CHEMFATE), February 1987
(Data file)
Report No.: EPA/560/5-86/014E; EPA/DF/MT-87/022
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-186490/XAB
Environmental Fate Data Base (ENVIROFATE): Chemical Name File (CASLST), February 1987
(Data file)
Report No.: EPA/560/5-86/014A; EPA/DF/MT-87/018
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-139283/XAB
Environmental Fate Data Base (ENVIROFATE): Chemical Name File (CASLST), March 1986
(Data file)
Report No.: EPA/560/5-86/014A; EPA/DF/MT-87/007
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-186508/XAB
Environmental Fate Data Base (ENVIROFATE): Data Pointer File (DATALOG), February 1987
(Data file)
Report No.: EPA/560/5-86/014B; EPA/DF/MT-87/019
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-139291/XAB
Environmental Fate Data Base (ENVIROFATE): Environmental Fate Data (DATALOG), March 1986
(Data file)
Report No.: EPA/560/5-86/014B; EPA/DF/MT-87/008
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-186524/XAB
Environmental Fate Data Base (ENVIROFATE): Journal Citations (XREF), February 1987
(Data file)
Report No.: EPA/560/5-86/014D; EPA/DF/MT-87/021
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-139317/XAB
Environmental Fate Data Base (ENVIROFATE): Journal Citations (XREF), March 1986
(Data file)
Report No.: EPA/560/5-86/014D; EPA/DF/MT-87/010
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB89-116099/XAB
Environmental Fate Data Base (ENVIROFATE): Microbial Degradation/Toxicity Data (BIOLOG), June 1988
(Data file)
Report No.: EPA/560-5-88-006C EPA/DF/MT-89/006
Jun 88 mag tape
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-186516/XAB
Environmental Fate Data Base (ENVIROFATE): Microbial Degradation/Toxicity Data (BIOLOG), February 1987
(Data file)
Report No.: EPA/560/5-86/014C; EPA/DF/MT-87/020
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-139309/XAB
Environmental Fate Data Base (ENVIROFATE): Microbial Degradation/Toxicity Data (BIOLOG), March 1986
(Data file)
Report No.: EPA/560/5-86/014C; EPA/DF/MT-87-009
Mar 86 mag tape
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB89-116115/XAB
Environmental Fate Data Base (ENVIROFATE): Value Biodegradation File (BIODEG), June 1988
(Data file)
Report No.: EPA/560/5-88/006E; EPA/DF/MT-89/008
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB84-142579
Environmental Transport and Transformation of Polychlorinated Biphenyls
Report No.: EPA-560/5-83-025
NTIS Prices: PC A10/MF A01

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB89-117592/XAB
Estimating Toxicity of Industrial Chemicals to Aquatic Organisms Using Structure Activity Relationships. Volume 1
(Final rept.)
Report No.: EPA/560/6-88/001
Jul 88 283p
NTIS Prices: PC A13/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB84-170414
Federal Activities in Toxic Substances
(Toxic Integration Information series)
Report No.: EPA-560/TIIS-83-007
NTIS Prices: PC A16/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-148292/XAB
Formaldehyde and Cancers of the Pharynx, Sinus and Nasal Cavity (Data file)
Report No.: EPA/560/5-86/040; EPA/DF/MT-87/014
NTIS Prices: CP T04

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB88-245188/XAB
Gastrointestinal Chemical Absorption Data Base, 1985-1987
(Data file)
Report No.: EPA/560/7-88/004; EPA/DF/MT-88/055
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB86-146230/XAB
Gastrointestinal Chemical Absorption Database, 1967-March 1985
(Data file)
Report No.: EPA/560/7-85/001; EPA/DF/MT-86/014
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-202370/XAB
Gastrointestinal Chemical Absorption Database Supplement Tape, March 1987
(Data file)
Report No.: EPA/560/7-87/004; EPA/DF/MT-87/030
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB88-132881/XAB
Household Solvent Products: A National Usage Survey
(Final rept. Oct 84-Jul 87)
Report No.: EPA/OTS/560/5-87/005
Jul 87 590p
NTIS Prices: PC A25/MF A01

Environmental Protection Agency, Washington, DC.
Office of Toxic Substances.
PB88-132899/XAB
Household Solvent Products: A 'Shelf' Survey with Laboratory Analysis
(Final rept. Oct 84-Jul 87)
Report No.: EPA/OTS/560/5-87/006
Jul 87 217p
NTIS Prices: PC A10/MF A01

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB87-146817/XAB
Layman's Guide to the Toxic Substances Control Act
Report No.: EPA/560/1-85/001
NTIS Prices: PC A02/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB83-257717
New and Revised Chemical Fate Test Guidelines
(Annual rept)
Report No.: EPA-560/6-83-003
NTIS Prices: PC$25.00/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB84-233287
New and Revised Chemical Fate Test Guidelines, October 1984
(Annual rept)
Report No.: EPA/560/6-84/003
NTIS Prices: PC A14/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB83-257691
New and Revised Health Effects Test Guidelines
(Annual rept)
Report No.: EPA-560/6-83-001
NTIS Prices: PC$25.00/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB84-233295
New and Revised Health Effects Test Guidelines, October 1984
(Annual rept)
Report No.: EPA/560/6-84/002
NTIS Prices: PC A05/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB83-257683
New and Revised Test Guidelines for Health Effects, Environmental Effects, and Chemical Fate
Report No.: EPA-560/6-83-004
NTIS Prices: PC$45.00

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB83-257709
New Environmental Effects Test Guidelines
(Annual rept)
Report No.: EPA-560/5-83-002
NTIS Prices: PC$7.00/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB84-102870
Overview of the Industry File Index System
(Summary rept.)
Report No.: EPA-560/TIIS-83-002
NTIS Prices: PC A03/MF A01

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB81-152902
PCB Residue Levels in Human Adipose Tissue; a Statistical Evaluation by Racial Grouping
(Final rept.)
Report No.: EPA-560/13-79-015
Nov 80 102p
NTIS Prices: PC A06/MF A01

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB83-253179
Polychlorinated Biphenyls in Human Adipose Tissue and Mother's Milk (Final rept.)
Report No.: EPA/560/5-83-011
11 Nov 82 62p
NTIS Prices: PC A04/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-176004/XAB
Preliminary Evaluations of Initial TSCA (Toxic Substances Control Act) Section 8(e) Substantial Risk Notices. January 1, 1985 to December 31, 1986
Report No.: EPA/560/2-87/001
NTIS Prices: PC A20/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB87-129409/XAB
Preliminary Evaluations of Initial TSCA (Toxic Substances Control Act) Section 8(e) Substantial Risk Notices. January 1, 1983 to December 31, 1984
Report No.: EPA/560/2-85/001
NTIS Prices: PC A15/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB83-187815
Preliminary Evaluations of Initial TSCA (Toxic Substances Control Act) Section 8(e) Substantial Risk Notices
(Report for 1 Feb 80-31 Dec 82)
Report No.: EPA-560/2-83-001
NTIS Prices: PC A23/MF A01

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB82-194036
The Progress of Regulations to Protect Stratospheric Ozone: Report to Congress
(Rept. for Aug 79-Dec 81)
Report No.: EPA/560/1-82-003
NTIS Prices: PC A03/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB83-195206
State Integrated Toxics Management: 18 Profiles
Report No.: EPA-560/T11S-81-005
NTIS Prices: PC A09/MF A01

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB89-133631/XAB
Superfund Amendments and Reauthorization Act (SARA): Section 313 Roadmaps Database (for Microcomputers)
(Data file)
Report No.: EPA/DF/DK-89/011 EPA-560/2-88-001
31 Aug 88 6 diskettes
Price includes documentation,
PB89-133649 - (USERS MANUAL) PC A04
NTIS Prices: CP D04

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB82-233008
Test Guidelines: Chemical Fate
(Annual rept)
Report No.: EPA-560/6-82-003
NTIS Prices: PC$40.00

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB82-232992
Test Guidelines: Environmental Effects
(Annual rept)
Report No.: EPA-560/6-82-002
NTIS Prices: PC$60.00

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB82-232984
Test Guidelines: Health Effects
(Annual rept)
Report No.: EPA-560/6-82-001
NTIS Prices: PC$40.00

Environmental Protection Agency, Washington, DC.
PB83-254102
TSCA (Toxic Substance Control Act) Chemical Substances Inventory: Initial Inventory and Cumulative Supplement Two, Plantsite Information File (Data file)
Report No.: EPA-560/7-83-002C; EPA/DF-83/009
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC.
PB83-254110
TSCA (Toxic Substance Control Act) Chemical Substances Inventory: Initial Inventory and Cumulative Supplement Two, Production Information File (Data file)
Report No.: EPA-560/7-83-002B; EPA/DF-83/010
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB85-137305/XAB
TSCA (Toxic Substances Control Act) Confidential Business Information Security Manual
Report No.: EPA/560/7-84/002
NTIS Prices: PC A04/MF A01

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB80-147499
The Toxic Substances Control Act, Public Law 94-469. Reporting for the Chemical Substances Inventory: Instructions for Reporting for the Revised Inventory
Jun 79 46p
NTIS Prices: PC A03/MF A01

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.
PB82-203290
Toxic Substances Control Act (TSCA) Chemical Substance Inventory: Cumulative Supplement II to the Initial Inventory
Chemical Abstracts Service, Columbus, OH.
Report No.: EPA-560/7-82-001
May 82 957p
NTIS Prices: MF E04

Environmental Protection Agency, Washington, DC.
PB80-220007
Toxic Substances Control Act Chemical Substances Inventory: Cumulative Supplement, July 1980
(Data file)
Report No.: EPA-560/13-80-025; EPA/DF-80/008
Jul 80 mag tape
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC.
PB86-220795/XAB
Toxic Substances Control Act (TSCA) Chemical Substances Inventory: Reissued Inventory Plantsite Information, May 1986
(Data file)
Report No.: EPA/560/7-86/003A; EPA/DF/MT-86/003A
NTIS Prices: CP T02

Environmental Protection Agency, Washington, DC.
PB86-220878/XAB
Toxic Substance Control Act (TSCA) Chemical Substances Inventory: Reissued Inventory Preferred Name File, May 1986
(Data file)
Report No.: EPA/560/7-86/003C; EPA/DF/MT-86/024
NTIS Prices: CP T03

Environmental Protection Agency, Washington, DC. Information Management and Services Div.
PB89-120489/XAB
Toxic Substances Control Act (TSCA) Chemical Substances Inventory: Reissued Inventory Synonym and Preferred Name File, April 1988
(Data file)
Report No.: EPA/560/7-88/005; EPA/DF/MT-89/009
NTIS Prices: CP T05

Environmental Protection Agency, Washington, DC.
PB86-220860/XAB
Toxic Substances Control Act (TSCA) Chemical Substances Inventory: Reissued Inventory Synonym File, May 1986
(Data file)
Report No.: EPA/560/7-86/003D; EPA/DF/MT-86/021
NTIS Prices: CP T04

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB85-204568/XAB
Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Volume 1. Initial Inventory
Report No.: EPA/560/7-84/003A
May 79 720p
NTIS Prices: PC A99/MF E04

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB85-204592/XAB
Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Volume 4. User Guide and Indices to the Initial Inventory, Molecular Formula and UVCB Indices
Report No.: EPA/560/7-84/003C
May 79 713p
NTIS Prices: PC A99/MF E04

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB85-204584/XAB
Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Volumes 2 and 3. User Guide and Indices to the Initial Inventory, Substance Name Index
Report No.: EPA/560/7-84/003B
May 79 1600p
NTIS Prices: PC A99/MF E12

Environmental Protection Agency, Washington, DC.
PB86-220803/XAB
Toxic Substances Control Act (TSCA) Chemical Substances Inventory: Reissued Inventory - Production Information File, May 1986
(Data file)
Report No.: EPA/560/7-86/003B; EPA/DF/MT-86/023
NTIS Prices: CP T03

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB83-262626
Toxic Substances Control Act (TSCA) Report to Congress for Fiscal Year 1982
(Annual rept)
Report No.: EPA-560/1-83-001
NTIS Prices: PC A02/MF A01

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB82-195330
Toxic Substances Control Act (TSCA): Report to Congress for Fiscal Year 1981
Report No.: EPA/560/1-82-001
NTIS Prices: PC A03/MF A01

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB88-912900/XAB
Toxic Substances Control Act (TSCA) Test Submissions Database (TSCATS) - Comprehensive Update Tape
(Data file)
Report No.: EPA/560/7-88/012; EPA/DF/MT-88/034
NTIS Prices: Subscription

Environmental Protection Agency, Washington, DC. Office of Toxic Substances.
PB87-200275/XAB
Toxicity of 3400 Chemicals to Fish (Part 1). Toxicity of 1085 Chemicals to Fish (Part 2)
Report No.: EPA/560/6-87/002
NTIS Prices: PC A13/MF A01

Environmental Protection Agency, Washington, DC.
Office of Pesticides and Toxic Substances.
PB85-114114/XAB
Toxics '95: Outlook of Factors and Trends for Toxic Chemicals
Coates (J.F.), Inc., Washington, DC.
Report No.: EPA/560/4-84/002
NTIS Prices: PC A11/MF A01

Geomet Technologies, Inc., Germantown, MD.
PB88-229547/XAB
Preliminary Experiments in a Research House to Investigate Contaminant Migration in Indoor Air
(Final rept.)
Report No.: GEOMET-IE-1882; EPA/560/5-88/004
NTIS Prices: PC A05/MF A01

Heiden Associates, Inc., Washington, DC.
PB85-207876/XAB
Impact of Suspect Hazard Designation on Chemical Use and Activity: A Pilot Study
(Final rept.)
Report No.: EPA/560/4-85/003
NTIS Prices: PC A13/MF A01

ICF, Inc., Washington, DC.
PB83-114405
Analysis of TSCA Section 8(a) Small Manufacturer Exemption
Report No.: EPA-560/4-82-005
NTIS Prices: PC A07/MF A01

ICF, Inc., Washington, DC.
PB83-262345
Regulatory Impact Analysis for New Chemical Reporting Alternatives under Section 5 of TSCA (Toxic Substances Control Act)
(Final rept.)
Report No.: EPA-560/4-83-002
NTIS Prices: PC A17/MF A01

ICF, Inc., Fairfax, VA.
PB89-133649/XAB
Superfund Amendments and Reauthorization Act (SARA): Section 313 Roadmaps Data Base User's Manual
(Final rept)
Report No.: EPA/560/2-88/001; EPA/DF/DK-89/011A
NTIS Prices: PC A04/MF A01

Industrial Economics, Inc., Cambridge, MA.
PB86-158946/XAB
Acute Hazardous Events Data Base
(Interim rept. (Final))
Report No.: EPA/560/5-85/029
NTIS Prices: PC A10/MF A01

JACA Corp., Fort Washington, PA.
PB83-234146
Economic Impact of Regulating Chlorofluorocarbon Emissions from Aerosols: A Retrospective Study
Report No.: EPA-560/4-83-001
NTIS Prices: PC A15/MF A01

Koba Associates, Inc., Washington, DC.
PB84-124585
Chemical Information Resources Handbook. Second Edition: Toxics Integration Information Series
(Final rept.)
Report No.: EPA-560/TIIS-83-006
NTIS Prices: PC A08/MF A01

Little (Arthur D.), Inc., Cambridge, MA.
PB87-107850/XAB
Methods for Assessing Exposure to Chemical Substances. Volume 8. Methods for Assessing Environmental Pathways of Food Contamination
(Final rept.)
Report No.: EPA/560/5-85/008
NTIS Prices: PC A07/MF A01

Meta Systems, Inc., Cambridge, MA.
PB85-207447/XAB
Development of a Baseline for Use in Assessing Impacts of the Toxic Substances Control Act (TSCA) on the Chemicals Industry
Report No.: EPA/560/4-85/001
NTIS Prices: PC A08/MF A01

Meta Systems, Inc., Cambridge, MA.
PB85-205607/XAB
Empirical Test of Economic Model for Innovation in the Chemical Industry
Report No.: EPA/560/4-85/002
NTIS Prices: PC A09/MF A01

Midwest Research Inst., Kansas City, MO.
PB84-129683
Airborne Asbestos Levels in Schools
(Final rept. Apr 81-Apr 82)
Report No.: EPA-560/5-83-003
NTIS Prices: PC A09/MF A01

Midwest Research Inst., Kansas City, MO.
PB86-109097/XAB
Analytical Method: The Analysis of By-Product Chlorinated Biphenyls in Air. Revision 2
(Special rept. Sep 84-May 85)
Report No.: EPA/560/5-85/011
NTIS Prices: PC A04/MF A01

Midwest Research Inst., Kansas City, MO.
PB86-109105
Analytical Method: The Analysis of By-Product Chlorinated Biphenyls in Water. Revision 2
(Special rept. Sep 84-May 85)
Report No.: SR-3; EPA/560/5-85/012
NTIS Prices: PC A04/MF A01

Midwest Research Inst., Kansas City, MO.
PB86-109089/XAB
Analytical Method: The Analysis of By-Product Chlorinated Biphenyls in Commercial Products and Product Wastes. Revision 2
(Special rept. Sep 84-May 85)
Report No.: SR-1; EPA/560/5-85/010
NTIS Prices: PC A04/MF A01

Midwest Research Inst., Kansas City, MO.
PB83-127696
Analytical Methods for By-Products PCBs--Preliminary Validation and Interim Methods
(Interim rept. no 4, 24 Apr-31 Aug 82)
Report No.: EPA-560/5-82-006
NTIS Prices: PC A11/MF A01

Midwest Research Inst., Kansas City, MO.
PB88-124086/XAB
Assessment of Airborne Exposure and Dermal Contact to Acrylamide during Chemical Grouting Operations
(Final rept.)
Report No.: MRI-8850-A(01); EPA/560/5-87/009
NTIS Prices: PC A07/MF A01

Midwest Research Inst., Kansas City, MO.
PB85-110435/XAB
Assessment of Emissions of Specific Compounds from a Resource Recovery Municipal Refuse Incinerator
(Final rept.)
Report No.: EPA/560/5-84/002
NTIS Prices: PC A05/MF A01

Midwest Research Inst., Kansas City, MO.
PB87-177218/XAB
Broad Scan Analysis of Human Adipose Tissue. Volume 1. Executive Summary
(Final rept.)
Report No.: EPA/560/5-86/035
NTIS Prices: PC A03/MF A01

Midwest Research Inst., Kansas City, MO.
PB87-177226/XAB
Broad Scan Analysis of Human Adipose Tissue. Volume 2. Volatile Organic Compounds
(Final rept.)
Report No.: EPA/560/5-86/036
NTIS Prices: PC A09/MF A01

Midwest Research Inst., Kansas City, MO.
PB87-180519/XAB
Broad Scan Analysis of Human Adipose Tissue. Volume 3. Semivolatile Organic Compounds
(Final rept.)
Report No.: EPA/560/5-86/037
NTIS Prices: PC A08/MF A01

Midwest Research Inst., Kansas City, MO.
PB87-177234/XAB
Broad Scan Analysis of Human Adipose Tissue. Volume 4. Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) (Final rept.)
Report No.: EPA/560/5-86/038
NTIS Prices: PC A04/MF A01

Midwest Research Inst., Kansas City, MO.
PB87-180527/XAB
Broad Scan Analysis of Human Adipose Tissue. Volume 5. Trace Elements (Final rept.)
Report No.: EPA/560/5-86/039
NTIS Prices: PC A05/MF A01

Midwest Research Inst., Kansas City, MO.
PB88-100375/XAB
Characterization of HRGC/MS Unidentified Peaks from the Analysis of Human Adipose Tissue. Volume 2. Appendices
(Final rept. Jan 86-Jan 87)
Report No.: EPA/560/5-87/002B
NTIS Prices: PC A05/MF A01

Midwest Research Inst., Kansas City, MO.
PB88-100367/XAB
Characterization of HRGC/MS Unidentified Peaks from the Analysis of Human Adipose Tissue. Volume 1. Technical Approach
(Final rept. Jan 86-Jan 87)
Report No.: EPA/560/5-87/002A
NTIS Prices: PC A04/MF A01

Midwest Research Inst., Kansas City, MO.
PB88-210430/XAB
Chlorinated Paraffins: A Report on the Findings from Two Field Studies, Sugar Creek, Ohio, Tinkers Creek, Ohio. Volume 2. Appendix D, The Quality Assurance Project Plan
(Final rept. 1986-87)
Report No.: EPA/560/5-87/012
NTIS Prices: PC A07/MF A01

Midwest Research Inst., Kansas City, MO.
PB88-210422/XAB
Chlorinated Paraffins: A Report on the Findings from Two Field Studies, Sugar Creek, Ohio, Tinkers Creek, Ohio. Volume 1. Technical Report (Final rept. 1986-87)
Report No.: EPA/560/5-87/012
NTIS Prices: PC A07/MF A01

Midwest Research Inst., Kansas City, MO.
PB84-140870
Comprehensive Assessment of the Specific Compounds Present in Combustion Processes. Volume 1. Pilot Study of Combustion Emissions Variability (Final rept.)
Report No.: EPA-560/5-83-004
NTIS Prices: PC A14/MF A01

Midwest Research Inst., Kansas City, MO.
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NTIS Prices: PC A07/MF A01

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NTIS Prices: PC A07/MF A01

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DE85008768/XAB
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Oak Ridge National Lab., TN.
DE83006367
Chemicals Identified in Human Biological Media: A Data Base. Fourth Annual Report, October 1982
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DE83006369
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Oak Ridge National Lab., TN.
DE82016319
Chemicals Identified in Human Biological Media, a Data Base. Interim Report, May 1982 Volume IV
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Oak Ridge National Lab., TN.
DE85008769/XAB
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DE83006368
Chemicals Identified in Feral and Food Animals: A Data Base. Volume II. Records 533-1515. Second Annual Report, October 1982
Report No.: EPA-560/5-82-004
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Oak Ridge National Lab., TN.
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PEI Associates, Inc., Cincinnati, OH.
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NTIS Prices: PC A04/MF A01

Science Applications International Corp., Oak Ridge, TN. Public Information and Presentations.
DE86004687/XAB
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Report No.: EPA-560/5-84-003-V.7-PT.1
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Science Applications International Corp., Oak Ridge, TN. Public Information and Presentations.
DE86004686/XAB
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Science Applications International Corp., Oak Ridge, TN. Public Information and Presentations.
DE86004685/XAB
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Science Applications International Corp., Oak Ridge, TN. Public Information and Presentations.
DE86004684/XAB
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Science Applications International Corp., Oak Ridge, TN. Technical Information Analysis Div.
DE88000823/XAB
National Body-Burden Database: Chemicals Identified in Animals, 1985-1986: Volume 5, Part 1
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NTIS Prices: PC A16

Science Applications International Corp., Oak Ridge, TN. Technical Information Analysis Div.
DE88000824/XAB
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Science Applications International Corp., Oak Ridge, TN. Technical Information Analysis Div.
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Science Applications International Corp., Oak Ridge, TN. Technical Information Analysis Div.
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Tracor JITCO, Inc., Rockville, MD.
PB83-139758
Metabolism Summaries of Selected Halogenated Organic Compounds in Human and Environmental Media - A Literature Survey, Second Update (Rept. for 1978-80)
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Versar, Inc., Springfield, VA.
PB86-107067/XAB
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PB86-132156/XAB
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EXAMPLE:

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EPA/560/5-83/005
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NTIS Prices: CP T02

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NTIS Prices: CP T02

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NTIS Prices: Subscription

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Each entry is followed by a corresponding title, plus other information such as publication date, document date, and publisher's name/address, where available.

An abstract for each entry is provided for your information. Descriptors/Identifiers are included for your convenience when implementing a search on Techlib database.

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EXAMPLE:

Title:	Acute Hazardous Events Data Base Interim Report (Final)
Report Number:	Report No. EPA/560/5-85-029
NTIS Order Number:	PB86-158946
NTIS Price Code:	PC A10/MF A01 (Please refer to "NTIS Price Schedules" on page ii).

(THIS TITLE NOT AT NTIS)

Polychlorinated Biphenyls: A Bibliography of Regulatory Action and EPA Related Research 1987 Environmental Protection Agency, Information Services Section. This document has been prepared to help interested persons locate EPA information on Polychlorinated Biphenyls (PCBs). Users of this document are advised that this is not intended as an all inclusive bibliography of published literature on PCBs. It is limited to Federal Register Notices, and to reports which have been funded in whole or in part by EPA. Federal Register Notices - arranged chronologically beginning with the most recent notice. EPA reports in the Government Printing Office (GPO) DATABASE - arranged alphabetically by report title. EPA reports in the National Technical Information Service (NTIS) DATABASE - arranged alphabetically by report title.

DE82016319

Chemicals Identified in Human Biological Media, a Data Base. Interim Report, May 1982 Volume IV, Oak Ridge National Lab., TN. M.V. Cone, M.F. Baldauf, D.M. Opresko, M.S. Uziel

A comprehensive data base of chemicals identified in human biological media has been established under the direction of the Exposure Evaluation Division in the U.S. Environmental Protection Agency's Office of Toxic Substances. This centralized resource of body-burden information has grown out of the concern of government scientists over continuing reports of toxic chemicals in human tissues and body fluids. Body burden is a reflection of exposures to food, air, and water contaminants, as well as administration of pharmaceuticals. The systematic acquisition of body-burden data will facilitate a more relevant assessment of human exposure to xenobiotics than was previously possible using environmental contamination levels. Data were obtained primarily from the open literature (retrospective to 1974), and contains information on over 950 different substances. For the user's convenience, cross-referenced chemical lists of CAS preferred names and common names are provided. The human tissues and body fluids found to be contaminated by these chemicals are also listed. The data base is published annually in tabular format with indices and chemical listings that allow specific searching. The file is now available online in the US Department of Energy's RECON and is being prepared for Lockheed's DIALOG. The purpose of the data base is to provide a centralized resource of body-burden data. (ERA citation 08:016379)

Descriptors: *Metals; *Organic compounds; *Drugs; *Body burden; Ingestion; Inhalation; Man; Contamination; Data base management; Indexes; Environmental exposure pathway; Food; Surface air; Drinking water

DE83006367

Chemicals Identified in Human Biological Media: A Data Base. Fourth Annual Report, October 1982, Oak Ridge National Lab., TN. M.V. Cone, M.F. Baldauf, D.M. Opresko, M.S. Uziel

A comprehensive data base of chemicals identified in human biological media (tissues and body fluids) has been established. This two-part volume is the annual publication of the data base for 1982. Data were obtained primarily from the open literature through manual searches (retrospective to 1974. The data base now contains information on over 1000 different substances, all of which are listed by Chemical Abstracts Service (CAS) preferred names. The data base is published annually in tabular format with indices and chemical listings that allow specific searching. The purpose of the data base is to provide a centralized resource of body-burden data, and in no way is it intended to obviate the need for the user to ultimately refer to the original literature or data source. (ERA citation 08:021899)

Descriptors: *Tissues; Body burden; Data compilation; Man; Organic compounds; Inorganic compounds; Metals; Chemical composition; Drugs

DE83006368

Chemicals Identified in Feral and Food Animals: A Data Base. Volume II. Records 533-1515. Second Annual Report, October 1982, Oak Ridge National Lab., TN. M.V. Cone, R.A.Faust, M.F. Baldauf

A comprehensive data base of chemicals identified in feral and food animals has been established. This effort has grown out of the concern over continuing reports of toxic chemicals in human tissues and body fluids. Feral populations and food animals are regarded as indicators of environmental contamination and subsequent human body burden. This data file is a companion to Chemicals Identified in Human Biological Media, A Data Base, and follows basically the same format. Data were obtained primarily from the open literature through manual searches (retrospective to 1979). The data base contains information on 134 different substances. (ERA citation 08:021827)

Descriptors: *Animals; Toxic materials; Chemical composition; Tissues; Data compilation.

DE83006369

Chemicals Identified in Human Biological Media: A Data Base. Fourth Annual Report Oak Ridge National Lab., TN. M.V. Cone, M.F. Baldauf, D.M. Opresko, M.S. Uziel

A comprehensive data base of chemicals identified in human biological media (tissues and body fluids) has been established. This two-part volume is the annual publication of the data base for 1982. Data were obtained primarily from the open literature through manual searches (retrospective to 1974). The data base now contains information on over 1000 different substances, all of which are listed by Chemical Abstracts Service (CAS) preferred names. The data base is published annually in tabular format with indices and chemical listings that allow specific searching. The purpose of the data base is to provide a centralized resource of body-burden data, and in no way is it intended to obviate the need for the user to ultimately refer to the original literature or data source. (ERA citation 08:021900)

Descriptors: *Tissues; Body burden; Data compilation; Man; Organic compounds; Inorganic compounds; Metals; Chemical composition; Drugs

DE84013519

Nutritional Requirements and Contaminant Analysis of Laboratory Animal Feeds, Oak Ridge National Lab., TN.

The primary objectives of this report are to present information concerning the nutritional requirements of several commonly used laboratory animal species (i.e., mouse, rat, hamster, guinea pig, rabbit, and dog) and to discuss various aspects of the problem of contamination of laboratory animal feeds. In addition, this document discusses the different types of laboratory animal diets (e.g., open vs closed formula), the ingredients used in these diets, the interaction of dietary components, and the public comments received respective to the EPA proposed guidelines for the nutrient composition of laboratory animal diets. Much of the data are presented in tabular form. 567 references; 3 figures; 19 tables; 5 appendices. (ERA citation 09:034481)

Descriptors: *Animal Feeds; *Laboratory Animals; Contamination; Estrogens; Lead; Nitroso Compounds; Nutrition; Pesticides; Toxins; Vitamins

Identifiers: ERDA/560305; NTISDE; NTISEPAP

DE85008767/XAB

Chemicals Identified in Human Biological Media, a Data Base. Fifth Annual Report, October 1983, Volume 6, Part 2, Oak Ridge National Lab., TN.

A comprehensive data base of chemicals identified in human biological media (tissues and body fluids) has been established under the direction of the Environmental Protection Agency's Office of Toxic Substances Exposure Evaluation Division. This centralized resource of body-burden information was inspired by the concern of government scientists over continuing reports of toxic chemicals in human tissues and body fluids. Data were obtained primarily from the open literature through manual searches of selected journals. The file contains information on over 1000 chemicals that have been found in human biological media. Part 2 contains body burden data extracted since the last publication of the data base. (ERA citation 10:023109)

Descriptors: *Tissues; *Body Burden; Chemical Composition; Data Compilation; Drugs; *Inorganic Compounds; Metals; *Organic Compounds

Identifiers: ERDA/550200; Data bases; Body fluids; Human; Toxicology; NTISDE; NTISEPAP

DE85008768/XAB

Chemicals Identified in Human Biological Media, a Data Base. Fifth Annual Report, October 1983. Volume VI, Part 1, Oak Ridge National Lab., TN.

A comprehensive data base of chemicals identified in human biological media (tissues and body fluids) has been established under the direction of the Environmental Protection Agency's Office of Toxic Substances Exposure Evaluation Division. This centralized resource of body-burden information was inspired by the concern of government scientists over continuing reports of toxic chemicals in human tissues and body fluids. Data were obtained primarily from the open literature through manual searches of selected journals. The file contains information on over 1000 chemicals that have been found in human biological media. Part 1 contains introductory materials, references, literature citations, indices, and a chemical directory. (ERA citation 10:021745)

Descriptors: *Tissues; Body Burden; Chemical Composition; Data Compilation; Drugs; *Inorganic Compounds; Man; Metals; *Organic Compounds

Identifiers: ERDA/550200; *Toxicity; Data bases; NTISDE; NTISEPAP

DE85008769/XAB

Chemicals Identified in Feral and Food Animals, a Data Base. Third Annual Report, October 1983. Volume 3. Records 1516-2627, Oak Ridge National Lab., TN.

A comprehensive data base of chemicals identified in feral and food animals has been established under the direction of the Exposure Evaluation Division in the Environmental Protection Agency's Office of Toxic Substances. This effort has grown out of the concern over continuing reports of toxic chemicals in human tissues and body fluids. Feral populations and food animals are regarded as indicators of environmental contamination and subsequent human body burden. Data were obtained primarily from the open literature through manual searches retrospective to 1979. The file contains information on 150 different substances. (ERA citation 10:021681)

Descriptors: *Tissues; Animals; Chemical Composition; Data Compilation; Inorganic Compounds; Metals; Organic Compounds; Pesticides

Identifiers: ERDA/510200; ERDA/550200; ERDA/520200; Data base; Food chains; NTISDE; NTISEPAP

DE86003507/XAB

Scientific Rationale for the Selection of Toxicity Testing Methods. 2. Teratology, Immunotoxicology, and Inhalation Toxicology, Oak Ridge National Lab., TN.

This document is the second of a two-part literature analysis of parameters associated with the various toxicity testing methods (test anial selection, pathology, etc.). Acute, subchronic, chronic, and carcinogenic testing methods are covered in ORNL/EIS-151. Testing methods for developmental toxicity, immunotoxicology, and inhalation toxicology and research needs associated with these areas are covered in this volume, ORNL-6094. These reports were prepared for the purpose of assisting and supporting the US Environmental Protection Agency in its efforts to develop guidelines for more efficient and economical testing procedures. 416 refs., 29 figs., 27 tabs. (ERA citation 11:007872)

Descriptors: *Aerosol Generators; *Experiment Planning; *Exposure Chambers; *Inhalation; *Teratogen Screening; *Toxicity; Data Compilation; Design; Dictionaries; Immune Reactions; Immunosuppression; Recommendations; Species Diversity; Structure-Activity Relationships

Identifiers: ERDA/560400; *Air pollution; NTISDE; NTISEPAP

DE86004684/XAB

National Body-Burden Database. Chemicals Identified in Feral and Food Animals, 1984. Volume 4, Part 2 Science Applications International Corp., Oak Ridge, TN. Public Information and Presentations.

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposure to environmental contaminants and the assessment of the significance of such exposure. Data included are obtained through routine manual searches of selected scientific journals, augmented by computer searches. The database, which includes the separately published files, Chemicals Identified in Human Biological Media and Chemicals Identified in Feral and Food Animals, contains information on more than 1600 chemicals. The database is used in exposure, hazard and risk assessment; identifying potential human and environmental health problems including sources of contamination; planning research and comparing results; and in teaching at medical and public health schools. The database is under the aegis of the Interagency Collaborative Group on Environmental Carcinogenesis, National Cancer Institute (NCI), and is maintained by the Health and Environmental Information Section, Science Applications International Corporation under the direction of the Exposure Evaluation Division, US Environmental Protection Agency (EPA). Funding is provided through interagency agreements involving NCI, EPA, and the US Department of Energy. (ERA citation 11:028342)

Descriptors: Inorganic Compounds; Organic Compounds; *Tissues; Body Burden; Chemical Composition; Chemical Effluents; Compiled Data; Domestic Animals; Pesticides; Pollutants; Quantity Ratio; Tissue Distribution; Wild Animals

Identifiers: ERDA/510200; ERDA/550200; ERDA/520200; *Toxicology; NTISDE; NTISEPAP

DE86004685/XAB

National Body-Burden Database: Chemicals Identified in Feral and Food Animals, 1984. Volume 4, Part 1 Science Applications International Corp., Oak Ridge, TN. Public Information and Presentations.

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposure to environmental contaminants and the assessment of the significance of such exposure. Data included are obtained through routine manual searches of selected scientific journals, augmented by computer searches. The database, which includes the separately published files, Chemicals Identified in Human Biological Media and Chemicals Identified in Feral and Food Animals, contains information on more than 1600 chemicals. The database is used in exposure, hazard and risk assessment; identifying potential human and environmental health problems including sources of contamination; planning research and comparing results; and in teaching at medical and public health schools. The database is under the aegis of the Interagency Collaborative Group on Environmental Carcinogenesis, National Cancer Institute (NCI), and is maintained by the Health and Environmental Information Section, Science

Applications International Corporation under the direction of the Exposure Evaluation Division, US Environmental Protection Agency (EPA). Funding is provided through interagency agreements involving NCI, EPA, and the US Department of Energy. (ERA citation 11:028339)

Descriptors: Inorganic Compounds; Organic Compounds; *Tissues; Body Burden; Chemical Composition; Chemical Effluents; Compiled Data; Domestic Animals; Pesticides; Pollutants; Quantity Ratio; Tissue Distribution; Wild Animals

Identifiers: ERDA/510200; ERDA/550200; ERDA/520200; *Toxicology; NTISDE; NTISEPAP

DE86004686/XAB

National Body-Burden Database. Chemicals Identified in Human Biological Media, 1984. Volume 7, Part 3. Science Applications International Corp., Oak Ridge, TN. Public Information and Presentations.

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposure to environmental contaminants and the assessment of the significance of such exposure. Data included are obtained through routine manual searches of selected scientific journals, augmented by computer searches. The database, which includes the separately published files, Chemicals Identified in Human Biological Media and Chemicals Identified in Feral and Food Animals, contains information on more than 1600 chemicals. The database is used in exposure, hazard and risk assessment; identifying potential human and environmental health problems including sources of contamination; planning research and comparing results; and in teaching at medical and public health schools. The database is under the aegis of the Interagency Collaborative Group on Environmental Carcinogenesis, National Cancer Institute (NCI) and is maintained by the Health and Environmental Information Section, Science Applications International Corporation under the direction of the Exposure Evaluation Division, US Environmental Protection Agency (EPA). Funding is provided through interagency agreements involving NCI, EPA, and the US Department of Energy. (ERA citation 11:028340)

Descriptors: *Drugs; *Tissues; Body Burden; Chemical Composition; Compiled Data; Inorganic Compounds; Man; Organic Compounds; Quantity Ratio; Tissue Distribution

Identifiers: ERDA/510200; ERDA/550200; *Toxicology; NTISDE; NTISEPAP

DE86004687/XAB

National Body-Burden Database. Chemicals Identified in Human Biological Media, 1984. Volume 7, Part 1. Science Applications International Corp., Oak Ridge, TN. Public Information and Presentations.

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposure to environmental contaminants and the assessment of the significance of such exposure. Data included are obtained through routine manual searches of selected scientific journals, augmented by computer searches. The database, which includes the separately published files, Chemicals Identified in Human Biological Media and Chemicals Identified in Feral and Food Animals, contains information on more than 1600 chemicals. The database is used in exposure, hazard and risk assessment; identifying potential human and environmental health problems including sources of contamination; planning research and comparing results; and in teaching at medical and public health schools. The database is under the aegis of the Interagency Collaborative Group on Environmental Carcinogenesis, National Cancer Institute (NCI) and is maintained by the Health and Environmental Information Section, Science Applications International Corporation under the direction of the Exposure Evaluation Division, US Environmental Protection Agency (EPA). Funding is provided through interagency agreements involving NCI, EPA, and the US Department of Energy. (ERA citation 11:028338)

Descriptors: Inorganic Compounds; Organic Compounds; *Tissues; Body Burden; Chemical Composition; Chemical Effluents; Compiled Data; Drugs; Man; Pesticides; Pollutants; Quantity Ratio; Tissue Distribution

Identifiers: ERDA/510200; ERDA/550200; *Toxicology; NTISDE; NTISEPAP

DE86004688/XAB

National Body-Burden Database. Chemicals Identified in Human Biological Media, 1984. Volume 7, Part 2. Science Applications International Corp., Oak Ridge, TN. Public Information and Presentations.

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposure to environmental contaminants and the assessment of the significance of such exposure. Data included are obtained through routine manual searches of selected scientific journals, augmented by computer searches. The database, which includes the separately published files, Chemicals Identified in Human Biological Media and Chemicals Identified in Feral and Food Animals, contains information on more than 1600 chemicals. The database is used in exposure, hazard and risk assessment; identifying potential human and environmental health problems including sources of contamination; planning research and comparing results; and in teaching at medical and public health schools. The database is under the aegis of the Interagency Collaborative Group on Environmental Carcinogenesis, National Cancer Institute (NCI) and is maintained by the Health and Environmental Information Section, Science Applications

International Corporation under the direction of the Exposure Evaluation Division, US Environmental Protection Agency (EPA). Funding is provided through interagency agreements involving NCI, EPA, and the US Department of Energy. (ERA citation 11:028341)

Descriptors: Inorganic Compounds; Organic Compounds; *Tissues; Body Burden; Chemical Composition; Chemical Effluents; Compiled Data; Man; Pesticides; Pollutants; Quantity Ratio; Tissue Distribution

Identifiers: ERDA/510200; ERDA/550200; Toxicology; NTISDE; NTISEPAP

DE88000823/XAB

National Body-Burden Database: Chemicals Identified in Animals, 1985-1986: Volume 5, Part 1. Science Applications International Corp., Oak Ridge, TN. Technical Information Analysis Div.

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposures to environmental contaminants and the assessment of the significance of such exposure. Data are obtained primarily through routine, manual searches of selected, scientific journals. Information on chemical nomenclature and properties is from online sources and standard handbooks. This publication contains introductory materials, chemical and journal lists, indices and, in tabular form, the records added to the database since the 1984 publication. (ERA citation 13:016400)

Descriptors: *Animals; *Body Burden; Hydrocarbons; Metals; Organic Compounds; Pesticides; Pollutants; Quantity Ratio; Radioisotopes; Tissues

Identifiers: NTISDE; NTISEPAP

DE88000824/XAB

National Body-Burden Database: Chemicals Identified in Animals, 1985-1986: Volume 5, Part 2. Science Applications International Corp., Oak Ridge, TN. Technical Information Analysis Div.

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposures to environmental contaminants and the assessment of the significance of such exposure. Data are obtained primarily through routine, manual searches of selected, scientific journals. Information on chemical nomenclature and properties is from online sources and standard handbooks. This publication contains records added to the database since the 1984 publication. (ERA citation 13:016401)

Descriptors: *Animals; *Body Burden; Compiled Data; Hydrocarbons; Metals; Organic Compounds; Pesticides; Pollutants; Quantity Ratio; Radioisotopes; Tissues

Identifiers: NTISDE; NTISEPAP

DE88000825/XAB

National Body-Burden Database: Chemicals Identified in Animals, 1985-1986: Volume 5, Part 3. Science Applications International Corp., Oak Ridge, TN. Technical Information Analysis Div.

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposures to environmental contaminants and the assessment of the significance of such exposure. Data are obtained primarily through routine, manual searches of selected, scientific journals. Information on chemical nomenclature and properties is from online sources and standard handbooks. The publication contains records added to the database since the 1984 publication. (ERA citation 13:016404)

Descriptors: *Animals; *Body Burden; Compiled Data; Hydrocarbons; Metals; Organic Compounds; Pesticides; Pollutants; Progress Report; Quantity Ratio; Radioisotopes; Tissues

Identifiers: NTISDE; NTISEPAP

DE88000826/XAB

National Body-Burden Database: Chemicals Identified in Animals, 1985-1986: Volume 5, Part 4. Science Applications International Corp., Oak Ridge, TN. Technical Information Analysis Div.

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposures to environmental contaminants and the assessment of the significance of such exposure. Data are obtained primarily through routine, manual searches of selected, scientific journals. Information on chemical nomenclature and properties is from online sources and standard handbooks. This publication contains records added to the database since the 1984 publication. (ERA citation 13:016403)

Descriptors: *Animals; *Body Burden; Hydrocarbons; Metals; Organic Compounds; Pesticides; Pollutants; Quantity Ratio; Radioisotopes; Tissues

Identifiers: NTISDE; NTISEPAP

DE88000827/XAB

National Body-Burden Database: Chemicals Identified in Humans, 1985-1986: Volume 8 Science Applications International Corp., Oak Ridge, TN. Technical Information Analysis Div.

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposures to environmental contaminants and the assessment of the significance of such exposure. Data are obtained primarily through routine, manual searches of selected, scientific journals. Information on chemical nomenclature and properties is from online sources and standard handbooks. This publication contains introductory materials, chemical and journal lists, indices and, in tabular form, the records added to the database since the 1984 publication. (ERA citation 13:016402)

Descriptors: *Man; Body Burden; Compiled Data; Hydrocarbons; Metals; Organic Compounds; Pesticides; Pollutants; Quantity Ratio; Tissues

Identifiers: NTISDE; NTISEPAP

PB82-194036

The Progress of Regulations to Protect Stratospheric Ozone: Report to Congress (Rept. for Aug 79-Dec 81) Environmental Protection Agency, Washington, DC. Office of Toxic Substances.

As mandated by Section 155 of the Clean Air Act Amendments of 1977, EPA has submitted to Congress in February 1982, a report on the progress of regulation to protect stratospheric ozone covering the period from August 1979 to December 1981. The report reviews activities related to the production of stratospheric ozone from potential depletion due to emissions of chlorofluorocarbons (CFCs) and other ozone-depleting substances.

Although the 1978 EPA & FDA regulations prohibited the manufacturing and processing of CFCs for non-essential aerosol uses, anticipated market growth in some non-aerosol uses may eventually offset the reductions achieved by the aerosol rule. In addition to CFCs, other potential ozone depleting substances are being investigated by EPA and other agencies. At the international level Japan and the European Economic Community have limited CFC-11 and CFC-12 production capacity to present levels while several nations are assessing the feasibility of reducing emissions from other uses. EPA and other Federal agencies will continue to monitor and support research to improve our understanding of atmospheric, health & environmental science of ozone depletion, technological capabilities and costs for limiting CFC emissions. Any decision regarding EPA action would be based on an evaluation of all these factors.

Descriptors: *Ozone; *Air pollution; *Regulations; Stratosphere; Aerosols; Monitoring; Forecasting; Chlorine organic compounds; Fluorine organic compounds

Identifiers: *Freons; Clean air act amendments of 1977; NTISEPAOTS

PB82-195330

Toxic Substances Control Act (TSCA): Report to Congress for Fiscal Year 1981 Environmental Protection Agency, Washington, DC. Office of Toxic Substances.

The fourth annual report to Congress summarizes progress made during FY 1981 by the Environmental Protection Agency (EPA) in implementing the Toxic Substances Control Act (Public Law 94-469, 94th Congress). The Agency's basic approach in implementing TSCA has been to use the Act's various provisions to stimulate better and more timely industry assessments of chemical risks. This approach should lead to more rapid and cost-effective achievement of the Agency's main statutory goals than would a chemical-by-chemical regulatory approach.

Descriptors: National government; Implementation; Legislation; Risks; Assessments

Identifiers: *Toxic Substances Control Act; Public Law 94-469; *Environmental Protection Agency; NTISEPAOTS

PB82-203290

Toxic Substances Control Act (TSCA) Chemical Substance Inventory: Cumulative Supplement II to the Initial Inventory Chemical Abstracts Service, Columbus, OH.

This is the second Cumulative Supplement to EPA's 'Toxic Substance Control Act Chemical Substance Inventory: Initial Inventory' which was published in May 1979. This Cumulative Supplement II supersedes both the Supplement I published in October 1979 and the first Cumulative Supplement of July 1980. The Initial Inventory and the Cumulative Supplement II now constitute the Revised Inventory representing a total of over 58,000 chemical substances, including 1,800 generic names generated for chemicals whose identities have been claimed as confidential. The Cumulative Supplement II lists over 13,000 chemical substances, including over 1,400 generic names for substances with confidential identities and 168 'new' substances for which premanufacturing notification review has been completed and that have actually been introduced in the U.S. market.

Descriptors: *Chemical compounds; *Environmental surveys; Inventories

Identifiers: *Toxic Substance Control Act; Listings; NTISEPAOTS

PB82-224320

Dermatotoxicity: Selected Issues in Testing for Dermal Toxicity, Including Irritation, Sensitization, Phototoxicity, and Systemic Toxicity (Technical rept. (Final)) Tracor JITCO, Inc., Rockville, MD.

Four categories of Dermatotoxicity testing are examined: Dermal Irritation Sensitization, Systemic Toxicity, and Phototoxicity. The rabbit is most widely used for irritation; the guinea pig is also acceptable, as its sensitivity is comparable. Factors affecting dermal irritation include: the degree of occlusion, use of abrasion, the application site, and duration of exposure and observation. This review suggests a tier-like strategy utilizing pH limits and preliminary screening in the hairless mouse may be useful in evaluating irritation potential.

Descriptors: *Dermatology; *Skin diseases; *Toxicology; Sensitizing; Absorption; Mice; Rabbits; Guinea pigs; Laboratory animals; Lethal dosage; Photosensitivity; Contact dermatitis; Allergic skin diseases; Standards; Toxic tolerances

Identifiers: Phototoxicity; NTISEPAOTS

PB82-232984

Test Guidelines: Health Effects (Annual rept); Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

These documents constitute a set of 39 health effects test guidelines (and, in some cases, support documents) that may be cited as methodologies to be used in chemical specific test rules promulgated under Section 4(a) of the Toxic Substances Control Act (TSCA). These guidelines cover testing for general toxicity, specific organ/tissue toxicity, mutagenicity, neurotoxicity and special studies. The guidelines will be published in loose leaf form and updates will be made available as changes are dictated by experience and/or advances in the state-of-the-art.

Descriptors: *Toxicology; *Guidelines; *Chemical tests; Bioassay; Exposure; Mutations; Chromosomes; Deoxyribonucleic acid; Tests; Assessments; Evaluation

Identifiers: Toxic Substances Control Act; Public Law 94-469; Mutagenesis; Neurotoxicity; State of the art; NTISEPAOTS

PB82-232992

Test Guidelines: Environmental Effects (Annual rept) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

These documents constitute a set of 21 environmental effects test guidelines (and, in some cases, support documents) that may be cited as methodologies to be used in chemical specific test rules promulgated under Section 4(a) of the Toxic Substances Control Act (TSCA). These guidelines cover testing for invertebrate toxicity, aquatic vertebrate toxicity, avian toxicity, phytotoxicity, and bioconcentration. The guidelines will be published in loose leaf form and updates will be made available as changes are dictated by experience and/or advances in the state-of-the-art.

Descriptors: *Toxicology; *Guidelines; *Chemical compounds; Invertebrates; Aquatic animals; Birds; Plants(Botany); Concentration (Composition); Risk; Tests; Assessments; Evaluation; Bioassay

Identifiers: Phytotoxicity; Bioaccumulation; Toxic Substances Control Act; Public Law 94-469; Health risks; *Environmental effects; State of the art; NTISEPAOTS

PB82-233008

Test Guidelines: Chemical Fate (Annual rept) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

These documents constitute a set of 21 chemical fate test guidelines (and, in some cases, support documents) that may be cited as methodologies to be used in chemical specific test rules promulgated under Section 4(a) of the Toxic Substances Control Act (TSCA). These guidelines cover testing for physical and chemical properties, transport processes and transformation processes. The guidelines will be published in loose leaf form and updates will be made available as changes are dictated by experience and/or advances in the state-of-the-art.

Descriptors: *Toxicology; *Guidelines; *Chemical tests; Physical properties; Chemical properties; Transformations; Biodeterioration; Transport properties; Chemical compounds; Decomposition; Reaction kinetics; Hydrolysis; Photolysis

Identifiers: Toxic Substances Control Act; Public Law 94-469; Biodegradation; Path of the pollutant; State of the art; NTISEPAOTS

PB83-105742

Regulatory Impact Analysis of the Use for PCB-Containing Electrical Equipment (Final rept.) Putnam, Hayes and Bartlett, Inc., Cambridge, MA.

On 12 February 1981, the U.S. Court of Appeals for the District of Columbia Circuit ordered EPA to conduct a rulemaking concerning the use of Polychlorinated Biphenyls (PCBs) in electrical equipment. EPA is now authorizing the use of PCBs in eight types of equipment. This Regulatory Impact Analysis was prepared to accompany the final rule. For each equipment type, the base case is the case where the use of all PCB equipment is authorized indefinitely. Alternatives include equipment phase-outs of varying length, retrofilling, secondary containment, and inspection and maintenance programs to reduce spill volume and/or exposure.

The benefits of alternative regulations are the avoided injury to health and environment that would otherwise have resulted from the incremental release of PCBs into the environment.

Descriptors: *Electric equipment; *Regulations; Economic impact; Transformers; Materials replacement; Capacitors

Identifiers: *Polychlorinated biphenyls; NTISEPAOTS

PB83-114405

Analysis of TSCA Section 8(a) Small Manufacturer Exemption ICF, Inc., Washington, DC.

This report presents analyses in support of EPA's development of a small manufacturer definition required for Section 8(a) of the Toxic Substances Control Act. Under Section 8(a), manufacturers designated as 'small' are exempt from certain reporting requirements. The report develops a framework for balancing off reporting costs with the benefits of receiving information from manufacturers. Production data are used in examples of how this balancing of costs and benefits can be performed for various types of small manufacturer definitions.

Descriptors: *Chemical industry; *Load regulations; Forecasting; Manufacturing; Chemical compounds; Pesticides

Identifiers: *Toxic Substances Control Act; NTISEPAOTS

PB83-126573

Methods of Analysis for By-Product PCBs-Literature Review and Preliminary Recommendations (Interim rept. no. 1, Mar-Apr 82) Midwest Research Inst., Kansas City, MO.

A review of the literature on polychlorinated biphenyl (PCB) analysis and recommendations for methods to determine by-product PCBs in commercial products and other matrices is presented. This report was prepared to assist EPA in formulating a rule regulating by-product PCBs. The published literature on PCB analysis is critically reviewed. Several hundred references are cited in a bibliography. The review if subdivided into extraction, cleanup, determination, data reduction, confirmation, screening, quality assurance, and by-product analysis sections. The determination section includes TLC, HPLC, GC (PGC and CGC), GC detectors (ECD, FID, HECD, EIMS, and other MS) and nonchromatographic analytical methods (NMR, IR, electrochemistry, NAA, and RIA). Techniques applicable to analysis of commercial products, air, and water for by-product PCBs are discussed. The final section of this report presents a recommended overall primary analytical scheme.

Descriptors: *Chemical analysis; Byproducts; Gas analysis; Water analysis; Water pollution; Air pollution; Gas chromatography; Electrochemistry; Spectrochemical analysis; Reviews

Identifiers: *Polychlorinated biphenyls; *Air pollution detection; *Water pollution detection; High performance liquid chromatography; NTISEPAOTS

PB83-127696

Analytical Methods for By-Products PCBs--Preliminary Validation and Interim Methods (Interim rept. no 4, 24 Apr-31 Aug 82) Midwest Research Inst., Kansas City, MO.

This document presents proposed analytical methods for analysis of by-products PCBs in commercial products, product waste streams, wastewaters, and air. The analytical method for commercial products and product waste streams consist of a flexible approach for extraction and cleanup of particular matrices. The 13C-labeled PCB surrogates are added as part of a strong quality assurance program to determine levels of recovery.

The wastewater method is based on EPA Methods 608 and 625 with revisions to include use of the 13C-labeled PCB surrogates. The air method is a revision of a proposed EPA method for the collection and analysis of PCBs in air and flue gas emissions. Capillary or packed column gas chromatography/electron impact ionization mass spectrometry is proposed as the primary instrumental method. Response factors and retention times of 77 PCB congeners relative to tetrachlorobiphenyl-d6 are presented in addition to statistical analysis to project validity of the data and extrapolation of relative response factors to all 209 possible congeners. Preliminary studies using the 13C-labeled surrogates to validate specific cleanup procedures and to analyze several commercial

products and product wastes indicate that the proposed analytical methods are both feasible and practical.

Descriptors: *Chemical analysis; Water analysis; Gas analysis; Air pollution; Water pollution; Gas chromatography; Mass spectroscopy

Identifiers: *Polychlorinated biphenyls; *Air pollution detection; *Water pollution detection; Tracer techniques; NTISEPAOTS

PB83-139758

Metabolism Summaries of Selected Halogenated Organic Compounds in Human and Environmental Media - A Literature Survey, Second Update (Rept. for 1978-80) Tracor JITCO, Inc., Rockville, MD.

This report updates available data from 1978 - 1980 on 23 halogenated hydrocarbons (HHC's) identified as environmental pollutants and potential health hazards, including two chemicals not covered in the earlier reports. Included is information on the uptake and retention of the compounds, their subsequent distribution and elimination patterns, the identification and observed concentrations of metabolites, and the metabolic pathways involved. This report includes, as an appendix, a tabular summary of the experimental data reported.

Descriptors: *Metabolism; *Halohydrocarbons; Hazardous materials; Distribution; Uptake; Concentration (Composition); Physiology

Identifiers: *Toxic substances; Literature surveys; Metabolites; Bioaccumulation; NTISEPAOTS

PB83-152173

Office of Pesticides and Toxic Substances Scientific and Technical Reports 1968-1982 (Annual rept) National Technical Information Service, Springfield, VA.

This publication contains bibliographic citations with abstracts of Office of Pesticides and Office of Toxic Substances scientific and technical reports submitted to the National Technical Information Service between the years 1968 and August 1982. Sections in the order of arrangement are Report Title; Abstracts and Bibliography; Contract/Grant Number; NTIS Order/Report Number; Personal Author; Corporate Author; and Subject (Keyword).

Descriptors: *Pesticides; *Bibliographies; Abstracts; Authors

Identifiers: *Toxic substances; NTISEPAOTS

PB83-181917

Chemical Activities Status Report. Third Edition, Volume I (Toxics Integration Information series) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

Volume I provides names and synonyms for chemicals included in the data base, both alphabetically and by registry number. Volume II gives brief descriptions of chemical-specific regulations, guidelines, and studies of EPA. Together, the reports permit users to identify chemicals of interest to EPA, and describe EPA activities related to those chemicals.

Descriptors: *Chemical compounds; *Environmental surveys; Tables(Data); Water pollution; Air pollution; Radioactive contaminants; Potable water; Pesticides

Identifiers: *Toxic substances; *Hazardous materials; Solid wastes; Listings; NTISEPAOTS

PB83-181925

Chemical Activities Status Report. Third Edition, Volume II (Toxics Integration Information series) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

Volume I provides names and synonyms for chemicals included in the data base, both alphabetically and by registry number. Volume II gives brief descriptions of chemical-specific regulations, guidelines and studies of EPA. Together, the reports permit users to identify chemicals of interest to EPA, and describe EPA activities related to those chemicals.

Descriptors: *Chemical compounds; *Environmental surveys; Air pollution; Water pollution; Radioactive contaminants; Pesticides; Potable water; Tables (Data)

Identifiers: *Toxic substances; *Hazardous materials; Solid wastes; Listings; NTISEPAOTS

PB83-187815

Preliminary Evaluations of Initial TSCA (Toxic Substances Control Act) Section 8(e) Substantial Risk Notices (Report for 1 Feb 80-31 Dec 82) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

This volume contains, in ascending submission number order status reports' (i.e., preliminary evaluations) prepared by staff of the Office of Toxic Substances in the Office of Pesticides and Toxic Substances for initial submissions received by EPA from chemical manufacturers, processors, and distributors between February 1, 1980, and December 31, 1982, pursuant to Section 8(e), the 'substantial risk' information reporting provision of the Toxic Substances Control Act (TSCA, 90 Stat. 2029, 15 U.S.C. 2607). The status reports contained in this volume reflect only the initial phases of EPA's evaluation process for the submitted information.

Descriptors: *Risk; *Regulations; Public health; Environmental surveys; Law enforcement

Identifiers: *Toxic Substances Control Act; NTISEPAOTS

PB83-195206

State Integrated Toxics Management: 18 Profiles Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

During 1982, the authors examined the health and environmental programs of eighteen states to assess state capabilities and common needs with respect to identifying and solving cross-media toxic substances problems.

Discussions with a variety of state officials covered such areas as statutory and executive authorities, organizational structures, data management and toxics control efforts. In addition, problems and issues such as proprietary information, risk assessment, and resource cutbacks sometimes surfaced. Using this information, the State Profiles were prepared. Drafts of the Profiles were reviewed by officials in the respective states, and their comments have been incorporated into this document. In addition, drafts were reviewed by selected EPA Regional and program office staff; EPA comments are incorporated also.

Descriptors: *Hazardous materials; Toxicology; State government; National government; Cooperation; Coordination; Management; Legislation; Projects

Identifiers: *Toxic substances; *Intergovernmental relationships; Programs; NTISEPAOTS

PB83-213843

Chemical Selection Methods: An Annotated Bibliography - Second Edition (Toxics Integration Information series (Final)) Tracor JITCO, Inc., Rockville, MD.

Persons interested in the control of toxic chemicals have examined and are examining methods to select chemicals of concern from the universe of chemical substances. Chemical selection refers to such activities as priority-setting, ranking, indexing, and sorting. These efforts have included the development of various systematic selection methods, such as scoring systems. This annotated bibliography is intended to provide brief summaries of a variety of chemical selection methods.

Descriptors: *Chemical compounds; *Bibliographies; Pesticides; Water pollution; Air pollution; Radioactive contaminants; Abstracts

Identifiers: *Toxic substances; Toxic Integration Information Series; Listings; Solid wastes; NTISEPAOTS

PB83-214924

Guidance for Controlling Friable Asbestos-Containing Materials in Buildings Battelle Columbus Labs., Washington, DC.

This document provides information that supplements previous EPA guidance on controlling asbestos-containing materials found in buildings. The document (1) provides a current summary of data on exposure to airborne asbestos, (2) identifies organizational and procedural issues in establishing an asbestos program, (3) reviews technical issues confronted when assessing the potential for exposure to airborne asbestos in particular indoor settings, (4) summarizes and updates information on applicability, effectiveness, and relative costs of alternative remedial actions, (5) suggests a structured process for selecting a particular course of action given information on exposure levels, assessment methods, and abatement techniques, (6) introduces and discusses criteria for determining successful asbestos control. The material presented is a summary of information and experience gained over the 4 years since previous guidance was published.

Descriptors: *Asbestos; *Air pollution; *Construction materials; Exposure; Assessments; Cost analysis; Substitutes; Buildings

Identifiers: *Air pollution abatement; NTISEPAOTS

PB83-234146

Economic Impact of Regulating Chlorofluorocarbon Emissions from Aerosols: A Retrospective Study JACA Corp., Fort Washington, PA.

In May of 1977, the U.S. Environmental Protection Agency, along with the Food and Drug Administration and the Consumer Product Safety Commission, proposed a time table for the phase-out of the use of chlorofluorocarbons for nonessential aerosol uses. The purpose of the study is to evaluate the economic impact and cost estimates in the original economic impact studies and to construct estimates of the actual economic burden imposed once the total ban had taken effect. EPA's intention in sponsoring this study was to improve its ability to conduct similar economic analyses by examining how markets actually responded to a product ban regulation. The study was not intended to address prospectively the economic costs and benefits of continuing the aerosol ban.

Descriptors: *Economic impact; *Regulations; *Aerosols; Cost analysis; Halogenated hydrocarbons; Chlorine organic compounds; Fluorine organic compounds; Profits; Losses; Demand(Economics); Prices; Market research; Compressed air; Carbon dioxide; Market value; Manufacturing; Containers; Investments; Graphs (Charts); Industries

Identifiers: *Freons; NTISEPAOTS

PB83-245175

Directory of Federal and International Coordinating Groups for Toxic Substances, 3rd Edition Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

This directory provides a ready reference to Federal and international toxic chemical coordinating groups. It should facilitate communication among agencies and the groups themselves. Included are committees, task forces, and other groups that coordinate functions of Federal toxic control and testing agencies. There are Federal, State, non-profit and private sector members on most of these groups. In third edition, international coordinating groups have been included given the increasing visibility of other countries' activities related to chemicals.

Descriptors: *Toxicology; *Directories; Personnel; Organizations; National government; Pesticides; Asbestos; Hazards; Carcinogens; Research projects; State government; Foreign countries

Identifiers: NTISEPAOTS

PB83-253179

Polychlorinated Biphenyls in Human Adipose Tissue and Mother's Milk (Final rept.) Research Triangle Inst., Research Triangle Park, NC. Corp. Source Codes: 045968000 Statistical Analysis of trends of polychlorinated biphenyl levels in human adipose tissue specimens collected in the EPA National Human Adipose Tissue Survey and in milk specimens collected in an EPA human mother's milk study.

Descriptors: *Connective tissue; Tissues (Biology); Trends; Chlorine organic compounds; Humans; Milk; Exposure; Public health; Concentration (Composition); Sampling

Identifiers: *Polychlorinated biphenyls; *Mother's milk; *Toxic substances; Occupational safety and health; NTISEPAOTS

PB83-254102

TSCA (Toxic Substance Control Act) Chemical Substances Inventory: Initial Inventory and Cumulative Supplement Two, Plantsite Information File (Data file) Environmental Protection Agency, Washington, DC.

The TSCA Chemical Substances Inventory: Initial Inventory and Cumulative Supplement Two, Plant Site Information File lists names and addresses for more than 6000 processors and manufactures of chemicals. This file, with the Production Information File and the TSCA Perferred and Synonyms files, provides the complete Toxic Substances Control Act.

Descriptors: *Data file; *Chemical compounds; *Environmental surveys; Inventories; Chemical industry; Manufacturing; Magnetic tapes

Identifiers: *Toxic Substances Control Act; NTISEPAOTS

PB83-254110

TSCA (Toxic Substance Control Act) Chemical Substances Inventory: Initial Inventory and Cumulative Supplement Two, Production Information File (Data file) Environmental Protection Agency, Washington, DC.

The TSCA Chemical Substances Inventory: Initial Inventory and Cumulative Supplement Two, Production Information File contains production information for more than 50,000 chemicals. This file includes Manufacturing Identification Number (MID) but not manufacturer names and locations. The TSCA Chemical Substances Inventory Initial Inventory Cumulative Supplement Two - Plantsite Information File tape must be used to find this information. The MID links the production figure to the plantsites. See also TSCA Chemical Substances Inventory and Cumulative Supplement Two - Preferred Name File and Synonym File to obtain the complete inventory.

Descriptors: *Data file; *Chemical compounds; *Environmental surveys; Inventories; Chemical industry; Manufacturing; Magnetic tapes

Identifiers: *Toxic Substances Control Act; NTISEPAOTS

PB83-257683

New and Revised Test Guidelines for Health Effects, Environmental Effects, and Chemical Fate Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances. No abstract available.

Identifiers: NTISEPAOTS

PB83-257691

New and Revised Health Effects Test Guidelines (Annual rept) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

These documents constitute a set of 2 new health effects test guidelines and support documents as well as 35 existing health effects test guidelines and 3 existing support documents that had been subjected to minor revisions in response to public comment. These will be added to (new guidelines) and serve as substitutes for (revised guidelines) the health effects test guidelines published by NTIS in October, 1982.

Descriptors: *Toxicology; *Guidelines; *Chemical tests; Bioassay; Exposure; Mutations; Chromosomes; Deoxyribonucleic acid; Tests; Assessments; Evaluation

Identifiers: Toxic Substances Control Act; Public Law 94-469; Mutagenesis; Neurotoxicity; State of the art; NTISEPAOTS

PB83-257709

New Environmental Effects Test Guidelines (Annual rept) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

These documents constitute a set of 2 new environmental effects test guidelines and 1 new support document. These will be additions to the set of environmental effects guidelines published by NTIS in October, 1982.

Descriptors: *Toxicology; *Guidelines; *Chemical compounds; Invertebrates; Aquatic animals; Birds; Plants(Botany); Concentration(Composition); Risk; Tests; Assessments; Evaluation; Bioassay

Identifiers: Phytotoxicity; Bioaccumulation; Toxic Substances Control Act; Public Law 94-469; Health risks; *Environmental effects; State of the art; NTISEPAOTS

PB83-257717

New and Revised Chemical Fate Test Guidelines (Annual rept) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

These documents constitute a set of 2 new chemical fate test guidelines and support documents that will be added to the chemical fate test guidelines and support documents that had been published by NTIS in October, 1982. There is also a major revision of one test guideline and support document and minor revisions of 4 test guidelines and support documents that had appeared in the October, 1982 publication. These revisions were made in response to public comments.

Descriptors: *Toxicology; *Guidelines; *Chemical tests; Physical properties; Chemical properties; Transformations; Biodeterioration; Transport properties; Chemical compounds; Decomposition; Reaction kinetics; Hydrolysis; Photolysis

Identifiers: Toxic Substances Control Act; Public Law 94-469; Biodegradation; Path of pollutants; State of the art; NTISEPAOTS

PB83-262345

Regulatory Impact Analysis for New Chemical Reporting Alternatives under Section 5 of TSCA (Toxic Substances Control Act) (Final rept.) ICF, Inc., Washington, DC.

This report presents the results of analysis of various information reporting alternatives for the Premanufacture Notification (PMN) process under section 5 of TSCA. The PMN process is the method by which the Office of Toxic Substances of EPA reviews data submitted by manufacturers and importers of new chemicals. The data must be submitted to EPA for review at least 90 days prior to when actual manufacturing or import begins. The analysis shows that the private costs of the rule range from 1 million to $13 million annually and that Agency PMN review costs are about $7 million per year. Although the data are incomplete, adverse chemical innovation effects associated with the PMN rule are not believed to be large. The

PMN process conducted under the final rule is expected to maintain the Agency's effectiveness in preventing adverse human health effects.

Descriptors: *Chemical compounds; *Regulations; Substitutes; Economic analysis; Public health; Comparison; Toxicity; Exposure

Identifiers: *Toxic Substances Control Act; *Premanufacture notification; NTISEPAOTS

PB83-262626

Toxic Substances Control Act (TSCA) Report to Congress for Fiscal Year 1982 (Annual rept) Environmental Protection Agency, Washington, DC. Office of Toxic Substances.

The report to Congress summarizes progress made by the Environmental Protection Agency in implementing Toxic Substances Control Act.

Descriptors: National government; Implementation; Legislation; Risk; Assessments

Identifiers: *Toxic Substances Control Act; Public Law 94-469; *Environmental Protection Agency; NTISEPAOTS

PB84-102870

Overview of the Industry File Index System (Summary rept.) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

This document provides data base users with a description of a new on-line data file being developed. Its purpose, intended uses and data elements are discussed and sample printouts using the UNIVAC System 2000 are provided.

Descriptors: *Chemical industry; *Information systems; Technology

Identifiers: Data base management; Industrial structure; NTISEPAOTS

PB84-111541

Nutritional Requirements and Contaminant Analysis of Laboratory Animal Feeds (Final rept.) Oak Ridge National Lab., TN.

The primary objectives of this report are to present information concerning the nutritional requirements of several commonly used laboratory animal species (i.e. mouse, rat, hamster, guinea pig, rabbit, and dog) and to discuss various aspects of the problem of contamination of laboratory animal feeds. In addition, this document discusses the different types of laboratory animal diets (e.g. open versus closed formula), the ingredients used in these diets, the interaction of dietary components, and the public comments received respective to the EPA

proposed guidelines for the nutrient composition of laboratory animal diets. Much of the data are presented in tabular form.

Descriptors: *Feeding stuffs; *Nutritional requirements; *Contaminants; *Laboratory animals; Animal nutrition; Diet; Tables (Data)

Identifiers: *Toxic substances; NTISEPAOTS

PB84-118538

Chemicals Identified in Human Breast Milk: A Literature Search. Oak Ridge National Lab., TN.

This computerized literature search for data on chemicals identified in human breast milk was accomplished for the Office of Toxic Substances' Exposure Evaluation Division, Environmental Protection Agency. These data were collected from a comprehensive human body-burden data base being developed under the direction of the Environmental Protection Agency and the National Cancer Institute. The comprehensive data base was searched for data on chemicals identified in four tissues--the mammary gland, milk, milk fat and whole milk. This search is provided to aid in the planning stages of a National Human Milk Monitoring Study. An objective of this study will be to obtain national baseline estimates of certain chemicals in milk.

Descriptors: *Public health; *Environmental surveys; Tissues (Biology); Tables (Data); Exposure; Concentration (Composition); Bibliographies

Identifiers: *Toxic substances; *Mother's milk; NTISEPAOTS

PB84-124585

Chemical Information Resources Handbook. Second Edition: Toxics Integration Information Series (Final rept.) Koba Associates, Inc., Washington, DC.

This handbook describes several of the more important chemical information resources available and accessible through government and private organizations. It also provides a framework for searching and retrieving chemical and environmental data.

Descriptors: *Hazardous materials; *Information systems; *Chemical compounds; *Handbooks; Toxicology; Regulations

Identifiers: *Toxic substances; NTISEPAOTS

PB84-129683

Airborne Asbestos Levels in Schools (Final rept. Apr 81-Apr 82) Midwest Research Inst., Kansas City, MO.

Air (116) and bulk (192) samples were collected from 48 units at 25 different schools of an urban independent school district. These were analyzed respectively by transmission electron microscopy and polarized light microscopy techniques for asbestos fiber concentrations. The new factor of releasability (of fibers) rating resulted from the bulk fiber analysis. Each sampling site was rated by a special five-person team for assessment tools: algorithm, condition, accessibility, part of air moving system, material exposure, friability and water damage, and people's activity at the site. The results were statistically analyzed to document potential exposure to airborne asbestos resulting from the friable, asbestos-containing material in schools and to develop an exposure assessment tool that would be based on the above stated factors.

Descriptors: *Asbestos; *Schools; *Air pollution; Sampling; Urban areas; Chemical analysis; Concentration (Composition); Sites; Surveys; Statistical analysis

Identifiers: *Indoor air pollution; *Air pollution sampling; Transmission electron microscopy; Polarized light microscopy; NTISEPAOTS

PB84-140870

Comprehensive Assessment of the Specific Compounds Present in Combustion Processes. Volume 1. Pilot Study of Combustion Emissions Variability (Final rept.) Midwest Research Inst., Kansas City, MO.

This pilot study was conducted as a prelude to a nation wide survey of organic emissions from major stationary combustion sources, The primary objectives of the pilot study were to obtain data on the variability of organic emissions from two such sources and to evaluate the sampling and analysis methods. These data are used to construct the survey design for the nationwide survey. The compounds of interest are polynuclear aromatic hydrocarbons (PAHs) and chlorinated aromatic compounds, including polychlorinated biphenyls (PCBs), polychlorinated dibenzo-p-dioxins (PCDDs), and polychlorinated di-benzofurans (PCDFs). Of particular interest is 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). In addition total cadmium was also determined in special samples from both plants to meet special Environmental Protection Agency (EPA) needs. A summary of the results of this study is contained in Section 2 of this report. Section 3 presents recommendations for future work. Brief descriptions of the two combustion sources are contained in Section 4. The sampling and analysis methods are described in Sections 5 and 6. Sections 7 and 8 present the field test data and analytical results. The analytical quality assurance results are summarized in Section 9. Section 10 presents the emissions results and Section 11 is a statistical summary of the emissions results.

Descriptors: *Organic compounds; *Air pollution; Surveys; Combustion products; Incinerators; Electric power plants; Chlorine organic compounds; Cadmium; Chemical analysis; Aromatic polycyclic hydrocarbons; Chlorine aromatic compounds; Sampling; Tables (Data); Gas analysis

Identifiers: *Stationary sources; *Air pollution sampling; *Air pollution detection; Polychlorinated dibenzofurans; Polychlorinated dibenzodioxins; Total organic chlorine; Polychlorinated biphenyls; Dibenzodioxin/tetrachloro; NTISEPAOTS

PB84-142579

Environmental Transport and Transformation of Polychlorinated Biphenyls Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

This report summarizes the environmental transport and transformation of polychlorinated biphenyls and contains nine separate chapters describing water solubility and octanol/water partition coefficient, vapor pressure, Henry's law constant and volatility from water, adsorption (sorption) to soils and sediments, bioconcentration in fish, atmospheric oxidation, hydrolysis and oxidation in water, photolysis, and biodegradation. In the preparation of each of these chapters, the emphasis has been on obtaining experimental data on environmentally relevant rate constants and equilibrium constants for these processes/properties for individual PCB congeners and Arochlors. If no experimental data were found, then estimation techniques were used wherever possible to obtain values for the rate constants or equilibrium constants for each individual congener or for groups of congeners (i.e., for monochloro-, dichloro-, trichloro-, etc., biphenyls). It must be emphasized that these estimates of rates for transport and transformation involved simplifying assumptions and thus these data should not be regarded as precise but rather as a best estimate based on the available data.

Descriptors: *Transport properties; *Water pollution; *Air pollution; Chlorine organic compounds; Reaction kinetics; Chemical properties; Vapor pressure; Hydrolysis; Photolysis; Oxidation; Biodeterioration; Adsorption; Soils; Sediments

Identifiers: *Polychlorinated biphenyls; *Path of pollutants; *Air-water interfaces; Aroclors; Toxic substances; Bioaccumulation; Water pollution effects (Animals); NTISEPAOTS

PB84-151984

Comprehensive Assessment of the Specific Compounds Present in Combustion Processes. Volume 3. National Survey of Organic Emissions from Coal Fired Utility Boiler Plants (Final rept., task 52) Midwest Research Inst., Kansas City, MO.

This study was conducted as a part of a nationwide survey to determine organic emissions from major stationary combustion sources. The principal compounds of interest are polynuclear aromatic hydrocarbons (PAHs) and chlorinated aromatic compounds, including polychlorinated biphenyls (PCBs), polychlorinated

dibenzo-p-dioxins (PCDDs), and polychlorinated dibenzofurans (PCDFs). This report describes the methods and results of sampling and analysis activities at the seven plants constituting the nationwide survey of coal fired utility boiler plants.

Descriptors: *Air pollution; *Organic compounds; Combustion products; Industrial wastes; Sources; Aromatic polycyclic hydrocarbons; Assessments; Surveys; Gas analysis; Sampling; Field tests; Quality assurance

Identifiers: *Coal fired power plants; *Stationary sources; *Air pollution detection; *Air pollution sampling; Polychlorinated biphenyls; Polychlorinated dibenzodioxins; Polychlorinated diberzofurans; NTISEPAOTS

PB84-170414

Federal Activities in Toxic Substances (Toxic Integration Information series) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances. Reprint/revision of 1981 document -- describes the toxic substances regulatory activities of 22 offices in 8 Federal agencies or departments. The document covers the breakdown of each organization, summarizes the statutory authorities, highlights regulatory development processes, and describes the various toxics-related programs and activities. There is also a graphic summary of 14 major statutes involved with controlling toxic substances.

Descriptors: *Toxicology; National government

Identifiers: *Federal government; *Toxic substances; Consumer Product Safety Commission; Council on Environmental Quality; NTISEPAOTS

PB84-186063

Compendium of Reported Physical and Chemical Characterization Data for Petroleum and Synthetic Fuel Products. Volume 1. Petroleum and Shale Oil Products TRW Energy Systems Group, Redondo Beach, CA.

This compendium consolidates a large quantity of diverse data which have been generated and reported by numerous investigators over the past several decades. The products for which data have been compiled are: crude petroleum, raw and hydrotreated shale oil, raw and hydrotreated whole coal liquids and intermediates, and petroleum-, coal-, and shale-derived naphtha, jet and diesel fuels and other light fuel oils, heavy fuel oils, and residua. Coal liquids addressed are those from H-Coal, EDS, SRC-I and SRC-II direct coal liquefaction processes. Sixty-six individual properties relating to the following six characterization categories are covered: general physical and chemical properties, elemental composition data, hydrocarbon compound class properties, nitrogen-, oxygen-, and sulfur-containing compounds/compound class properties, properties of various distillation fractions, and properties of 'non-primary' products and their distillation fractions. Primarily, this effort has consisted of assembling data and has not included evaluation of data quality or the development of conclusions

as to similarities and differences between a synfuel and its analogous petroleum product. Limitations of the data base are noted.

Descriptors: *Petroleum products; *Physical properties; *Chemical properties; *Shale oil; Chemical compounds; Distillation; Crude oil; Fuels; Tables (Data); Jet engine fuels; Diesel fuels; Air pollution

Identifiers: *Synthetic fuels; *Toxic substances; NTISEPAOTS

PB84-186071

Compendium of Reported Physical and Chemical Characterization Data for Petroleum and Synthetic Fuel Products. Volume 2. Direct Coal Liquefaction Products TRW Energy Systems Group, Redondo Beach, CA.

This compendium consolidates a large quantity of diverse data which have been generated and reported by numerous investigators over the past several decades. The products for which data have been compiled are: crude petroleum, raw and hydrotreated shale oil, raw and hydrotreated whole coal liquids and intermediates, and petroleum-, coal-, and shale-derived naphtha, jet and diesel fuels and other light fuel oils, heavy fuel oils, and residua. Coal liquids addressed are those from H-Coal, EDS, SRC-I and SRC-II direct coal liquefaction processes. Sixty-six individual properties relating to the following six characterization categories are covered: general physical and chemical properties, elemental composition data, hydrocarbon compound class properties, nitrogen-, oxygen-, and sulfur-containing compounds/compound class properties, properties of various distillation fractions, and properties of 'non-primary' products and their distillation fractions. Primarily, this effort has consisted of assembling data and has not included evaluation of data quality or the development of conclusions as to similarities and differences between a synfuel and its analogous petroleum product. Limitations of the data base are noted.

Descriptors: *Petroleum products; *Coal liquids; *Chemical properties; *Physical properties; Jet engine fuels; Diesel fuels; Chemical compounds; Tables (Data); Distillation; Air pollution; Fuels

Identifiers: *Coal liquefaction; *Synthetic fuels; *Toxic substances; NTISEPAOTS

PB84-188655

OTS (Office of Toxic Substances) Information Architecture Notebook (Final rept.) Tracor JITCO, Inc., Rockville, MD.

This notebook represents the first attempt by EPA's Office of Toxic Substances (OTS) to identify and assess both its scientific/technical information requirements and major information resources containing pertinent data. OTS' information requirements are expressed in terms of data categories and subcategories which are properly defined and classified. These data categories and subcategories are matched against a total of 700 computerized data bases and manual information resources in a series of matrices indicating where information

may be available. Furthermore, these 700 information resources are evaluated by using a series of search and system attributes in a series of matrices depicting the search and system capabilities for many of these resources. Also included in this information assessment are the computer models that OTS has developed for predicting physical/chemical properties or for assessing chemical fate and environmental and human exposure. The major objective of this effort is to evaluate the adequacy of existing information resources and to identify major information gaps. As information requirements and information resources capabilities change, this Notebook will be periodically updated to reflect these changes.

Descriptors: *Information systems; *Chemical compounds; *Public health; *Environmental surveys; Risks; Assessments; Physical properties; Chemical properties; Economic analysis; Chemical analysis; Regulations; Toxicity

Identifiers: *Toxic substances; Path of pollutants; Pollution control; NTISEPAOTS

PB84-213750

User's Manual for TOX-SCREEN: A Multimedia Screening-Level Program for Assessing the Potential Fate of Chemicals Released to the Environment (Final rept.) Oak Ridge National Lab., TN.

A screening-level multimedia model called TOX-SCREEN has been developed to assess the potential fate of toxic chemicals released to air, surface water, or soil. Four types of surface water bodies are considered: lakes, rivers, estuaries, and oceans. TOX-SCREEN was developed at the request of the U.S. Environmental Protection Agency (USEPA) to provide a means by which chemicals classified under Section 4 of the Toxic Substances Control Act (TSCA) can be rapidly evaluated with respect to their potential for accumulation in environmental media. The model is simplified in nature and is intended to be used as a screening device to identify chemicals that are unlikely to pose problems under conservative assumptions. The purpose of this report is to provide a user's manual for the FORTRAN IV computer code, TOX-SCREEN, which implements the multimedia model. A brief description of the model assumptions and structure is included. The structure of the TOX-SCREEN program and individual subroutines are described in detail. Input to and output from the code are thoroughly explained. Parameter definitions, sample job control language, sample input data, output from TOX-SCREEN using the sample input data, and a listing of the program are provided in appendixes.

Descriptors: *Chemical compounds; *Manuals; *Environmental surveys; *Mathematical models; Fortran; Assessments; Air pollution; Water pollution; Surface waters; Soils; Computer programming; Computer programs

Identifiers: *Path of pollutants; *Tox-screen model; *User manuals (Computer programs); *Toxic substances; Land pollution; NTISEPAOTS; NTISDE

PB84-213958

Chemical Activities Status Report, Fourth Edition. Volume 1. (Toxics Integration Information series) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

The EPA Chemical Activity Status Report (EPACASR) is a guide to Agency activities relating to chemical substances. The report is organized into three sections: (1) Alphabetized Chemical Name Reference Listing (an index of names used for chemicals included in the text), (2) Chemical Name Synonym List (showing all synonyms for chemicals in the text, and arranged by CAS Registry Number), and (3) EPA Chemical Activities Report (arranged sequentially by CAS Registry Number). Sections 1 and 2 are in Volume I, Section 3 is in Volume II.

Descriptors: *Chemical compounds; *Environmental surveys; Tables (Data); Water pollution; Air pollution; Hazardous materials; Radioactive contaminants; Potable water; Pesticides

Identifiers: *EPA chemical activity status report; *Toxic substances; Listings; Solid wastes; Land pollution; NTISEPAOTS

PB84-213966

Chemical Activities Status Report, Fourth Edition. Volume 2. (Toxics Integration Information series) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

The EPA Chemical Activity Status Report (EPACASR) is a guide to Agency activities relating to chemical substances. The report is organized into three sections: (1) Alphabetized Chemical Name Reference Listing (an index of names used for chemicals included in the text), (2) Chemical Name Synonym List (showing all synonyms for chemicals in the text, and arranged by CAS Registry Number), and (3) EPA Chemical Activities Report (arranged sequentially by CAS Registry Number). Sections 1 and 2 are in Volume I, Section 3 is in Volume II.

Descriptors: *Chemical compounds; *Environmental surveys; Tables(Data); Water pollution; Air pollution; Hazardous materials; Radioactive contaminants; Potable water; Pesticides

Identifiers: *EPA chemical activity status report; *Toxic substances; Listings; Solid wastes; Land pollution; NTISEPAOTS

PB84-233287

New and Revised Chemical Fate Test Guidelines, October 1984 (Annual rept) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

These documents constitute a set of 2 new chemical fate test guidelines and support documents that will be added to the chemical fate test guidelines and support documents that had been published by NTIS in October, 1982. There is also a major revision of one test guideline and support document and minor revisions of 4 test guidelines and support documents that had appeared in the October, 1982 publication. These revisions were made in response to public comments.

Descriptors: *Toxicology; *Guidelines; *Chemical tests; Chemical analysis; Chemical compounds; Chromatographic analysis; Partition coefficient; Octanol; Water; Environmental surveys; Photolysis; Sunlight; Photochemistry; Solutions; Laboratory equipment; Chemical compounds

Identifiers: *Toxic substances; Toxic Substances Control Act; Public Law 94-469; Path of pollutants; NTISEPAOTS

PB84-233295

New and Revised Health Effects Test Guidelines, October 1984 (Annual rept) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

These documents constitute a set of 2 new health effects test guidelines as well as 3 existing health effects test guidelines that had been subjected to major revision. These will be added to (new guidelines) and serve as substitutes for (revised guidelines) the health effects test guidelines published by NTIS in October, 1982.

Descriptors: *Toxicology; *Guidelines; *Chemical tests; Bioassay; Exposure; Tissues (Biology); Dermatology; Mutagens; Chromosomes; Deoxyribonucleic acid; Dosage; Environmental surveys; Metabolism

Identifiers: *Toxic substances; Toxic Substances Control Act; Mutagenesis; Neurotoxicity; Public Law 94-469; NTISEPAOTS

PB85-110435/XAB

Assessment of Emissions of Specific Compounds from a Resource Recovery Municipal Refuse Incinerator (Final rept.) Midwest Research Inst., Kansas City, MO.

This study was conducted as a part of a nationwide survey to determine organic emissions from major stationary combustion sources. The principal compounds of interest were polynuclear aromatic hydrocarbons (PAHs) and polychlorinated aromatic compounds, including polychlorinated biphenyls (PCBs), polychlorinated dibenzo-p-dioxins (PCDDs), and polychlorinated dibenzofurans (PCDFs). This report

describes an assessment of emissions from a resource recovery municipal refuse incinerator.

Descriptors: *Incinerators; *Chemical compounds; *Air pollution; *Solid waste disposal; Assessments; Sewage; Gas analysis; Sampling; Chemical analysis; Aromatic polycyclic hydrocarbons

Identifiers: *Resource recovery facilities; *Refuse derived fuels; Polychlorinated biphenyls; Polychlorinated dibenzodioxins; Polychlorinated dibenzofurans; NTISEPAOTS

PB85-114114/XAB

Toxics '95: Outlook of Factors and Trends for Toxic Chemicals Coates (J.F.), Inc., Washington, DC.

The objective of this project is to assist the Office of Toxic Substances in identifying the factors and trends that will shape the next decade of toxic substances control and thereby support OTS' long-term policy and budget planning. The core of this document, Chapter 2, is three heuristic scenarios of the chemical industry in 1995. One scenario envisions the results of 'rapid evolution,' another the results of 'multidimensional change,' and the third a state of relative 'stability.' The authors have grounded these scenarios in their ideas generated from wide ranging reading and discussions during two Toxics '95 workshops.

Descriptors: *Chemical compounds; *Chemical industry; *Environmental surveys; Trends; Forecasting; Economic analysis; Regulations; Technology; Toxicology; National government; Pesticides

Identifiers: *Toxic substances; Chemical feedstocks; NTISEPAOTS

PB85-135085/XAB

Evaluation of the Asbestos-in-Schools Identification and Notification Rule (Final rept. Mar 83-May 84) Battelle Columbus Labs., Washington, DC.

The Asbestos-in-Schools Identification and Notification Rule effective June 28, 1982, required all public and private local education agencies (LEAs) to (1) inspect for friable materials; (2) sample and analyze these materials when found; (3) post notice of inspection results and notify employees and parents in schools with asbestos-containing friable materials (ACFM); and (4) maintain records of the findings at the LEAs and schools. A stratified systematic sample of 1,800 public and 800 private LEAs was randomly selected proportionate to the square root of enrollment. A telephone survey found that 83 percent of the LEAs have begun or completed inspections and 94 percent of all schools have been inspected. Of the schools inspected, 35 percent found ACFM. Almost all LEAs with ACFM have abatement programs (93%), about one-third of which (31%) are operations/ maintenance only. Only 9 percent of the LEAs were in compliance with the rule by June 28, 1983, the rule's compliance date; and 11 percent were by January 1984,

the date of the survey. Record-keeping and notification were the major problem areas of noncompliance. QA site visits were made to 38 LEAs and 94 schools within these LEAs were inspected. The LEA data collected during the site visits agreed substantially with the telephone survey data.

Descriptors: *Asbestos; *Schools; *Air pollution; *Regulations; Sampling; Maintenance; Sites; Inspection

Identifiers: *Toxic substances; NTISEPAOTS

PB85-136653/XAB

Asbestos in Buildings: A National Survey of Asbestos-Containing Friable Materials (Final rept.) Battelle Columbus Labs., Washington, DC.

A nationally representative sample of 231 buildings at 10 sites were inspected for potentially asbestos-containing materials. Bulk samples (1,510) were taken and analyzed by Polarized Light Microscopy. Estimates were made of the number and percent of buildings with asbestos-containing friable materials, the square footage of such materials, and the percent asbestos content of the materials. In buildings constructed prior to 1960, ACFM was concentrated primarily in pipe and boiler insulation; in buildings constructed between 1960 and the early 1970's, ACFM was concentrated primarily in sprayed-on or trowelled-on materials. In 1973, EPA banned the use of asbestos thermal and acoustical insulation materials except for decorative purposes, and in 1978 EPA banned them for all purposes.

Descriptors: *Asbestos; *Buildings; *Environmental surveys; National government; Residential buildings; Sampling; Insulation; Urban areas; Field tests; Quality assurance

Identifiers: *Indoor air pollution; *Air pollution sampling; Air pollution detection; NTISEPAOTS

PB85-137305/XAB

TSCA (Toxic Substances Control Act) Confidential Business Information Security Manual Environmental Protection Agency, Washington, DC. Office of Toxic Substances.

The procedures in this manual prescribe standards and establish responsibility and accountability for the control of documents and computer systems that contain Confidential Business Information (CBI) received by the U.S. Environmental Protection Agency (EPA) under the Toxic Substances Control Act (TSCA).

Descriptors: *Contractors; *Data processing security; Businesses; Information; Documents; Contract administration; Contracted services

Identifiers: *Computer information security; *Confidentiality; Privacy; Toxic Substances Control Act; NTISEPAOTS

PB85-138535/XAB

Thermal Degradation Products from Dielectric Fluids (Interim rept. no. 1) Midwest Research Inst., Kansas City, MO.

Electrical transformer fires can cause extensive smoke damage, especially when polychlorinated biphenyls (PCBs) are involved since they can form polychlorinated dibenzofurans (PCDFs) and other toxic by-products. To characterize the potential for by-product formation, this study was undertaken to optimize conditions for PCDF formation from PCBs and to study the potential for formation of PCDFs and polychlorinated dibenzodioxins (PCDDs) from combustion of selected dielectric fluids, including those contaminated with PCBs. A bench-scale thermal destruction system was used to combust the samples. The dielectric fluid was fed continuously using a syringe pump. The concentrations of CO, CO2, and O2 in the effluent were monitored continuously. The entire effluent from the thermal destruction system was passed through an XAD-2 trap to collect PCDFs and other semivolatile organics. The XAD-2 trap and a rinse of connective tubing were Soxhlet extracted. Extracts were cleaned using column chromatography to isolate the PCDFs and PCDDs. All samples were analyzed for PCDFs using HRGC/EIMS in the selected ion monitoring mode. The results of this work indicate that the optimum conditions for PCDF formation from PCBs are near 675C for 0.8 s or longer, with 8% excess oxygen. Under these conditions, percent levels of PCDFs are formed from mineral oil or silicone oil contaminated with PCBs at 5ppm or greater. PcDFs and PCDDs are also formed from a trichlorobenzene dielectric fluid which contained no detectable PCBs.

Descriptors: *Insulating oil; *Transformers; *Combustion products; *Pyrolysis; *Air pollution; Samples; Industrial hygiene; Degradation; Thermal degradation; Flammability testing

Identifiers: *Polychlorinated biphenyls; *Toxic substances; Indoor air pollution; Polychlorinated dibenzodioxins; Polychlorinated dibenzofurans; Dibenzodioxin/tetrachloro; Dibenzofuran/tetrachloro; NTISEPAOTS

PB85-183085/XAB

Exposure Assessment for Asbestos-Contaminated Vermiculite (Final rept.) Versar, Inc., Springfield, VA.

This document is an exposure assessment for asbestos-contaminated vermiculite. Such exposure is found to occur mainly via inhalation: ingestion and dermal adsorption are insignificant routes of exposure. Vermiculite is released to the air during mining, milling, exfoliation, transport, and use. These operations may also release some asbestos fibers, which are readily transported through the atmosphere.

Descriptors: *Asbestos; *Industrial hygiene; *Environmental surveys; *Vermiculite; *Public health; Exposure; Assessments; Air pollution; Mining; Transport properties; Dosage; Toxicity; Mineralogy

Identifiers: *Indoor air pollution; *Occupational safety and health; *Air pollution sampling; *Toxic substances; Path of pollutants; Consumer products; Point sources; NTISEPAOTS

PB85-205607/XAB

Empirical Test of Economic Model for Innovation in the Chemical Industry Meta Systems, Inc., Cambridge, MA.

The object of this report was to develop a model describing the innovation process in the chemical industry. The model developed provides a means of measuring and analyzing the impacts on innovation of various regulations. Of particular interest is the Toxic Substance Control Act (TSCA), which many critics argue has had a detrimental impact on innovation in the Chemical industry. First, a model of the innovation process is developed. This model contains three equations, which are also estimated using available data. The model works well explaining a great deal about the innovation process. Second, an attempt was made to analyze the impacts of TSCA. The data needed to complete a complete analysis of TSCA.

Descriptors: *Chemical industry; *Economical analysis; *Mathematical models; *Waste disposal; Regulations; Tables(Data); Assessments; Toxicology; Patents; Trends; Forecasting

Identifiers: *Toxic substance control act; *Innovations; NTISEPAOTS

PB85-207447/XAB

Development of a Baseline for Use in Assessing Impacts of the Toxic Substances Control Act (TSCA) on the Chemicals Industry Meta Systems, Inc., Cambridge, MA.

A three equation model of innovation in the chemical industry has been developed. The model includes the following three relationships: (1) a technical knowledge production function with technical knowledge as a function of research and development input, (2) a production function with output as a function of conventional inputs (capital, labor, and materials) and a 'stock' of knowledge, and (3) a derived demand equation for innovation inputs. The model was tested using data on 48 publicly owned firms covering a 20 year period 1960-1980. Financial data were taken from the firms' 10-K annual reports, and patent data, used as measures of innovation, were obtained from the U.S. Patent Office. The resulting regression estimates (1) supported the hypothesis that all firms have the same elasticity of patenting with respect to their R & D stock, (2) yielded estimates of elasticity of output relative to R & D stock about twice as large as an earlier study, and (3) supported a model of R & D intensity as a function of expected growth rate. The report suggests additional refinements and testing of the model and methods for utilizing it in assessing the impact of the Toxic Substances Control Act.

Descriptors: *Chemical industry; *Law(Jurisprudence); *Economic analysis; *Stockpile management; Regulations; Assessments; Comparison; Forecasting; National government; Industrial wastes; Drug industry; Agricultural products

Identifiers: *Toxic substances control act; *Baseline measurements; NTISEPAOTS

PB85-207876/XAB

Impact of Suspect Hazard Designation on Chemical Use and Activity: A Pilot Study (Final rept.) Heiden Associates, Inc., Washington, DC.

How chemical firms regulated by EPA respond when their products are designated as suspect toxic hazards (as distinguished from being formally regulated) was the subject of a pilot study to: (1) determine the types of public data and methodological approaches available to study the problem; and (2) assess and measure actual impact based on (1). Ten chemicals were selected for initial study, based on: (1) their presence on NIOSH and EPA or OSHA lists of potential carcinogenic substances; (2) availability of sufficient public data for analysis (3) reasonable diversity and representativeness. A total of 28 categories of production or use were studied for these ten chemicals. They were supplemented by eight uses for three additional chemicals in some of the analyses conducted. Economic case history studies and formal econometric statistical models were the investigation tools used. It was concluded that although important data gaps and limitations in economic methodology existed in this pilot study, sufficient public data were available for a number of high-profile chemicals to conduct a meaningful pilot assessment of the impact of suspect hazard designation on their production/use, and that for these chemicals suspect hazard designation frequently had a significant impact on production/consumption.

Descriptors: *Chemical industry; *Hazardous materials; *Economic analysis; *Regulations; *Public health; *Environmental surveys; *Industrial hygiene; Pilot plants; Assessments; Industrial wastes; Carcinogens; Manufacturers; Arsenic; Cadmium; Chromium inorganic compounds; Pesticides; Mathematical models; Tables (Data); State government; Federal government

Identifiers: *Toxic substances; *Occupational safety and health; Ethylene/trichloro; Ethylene/perchloro; Case studies; NTISEPAOTS

PB85-248987/XAB

Products of Thermal Degradation of Dielectric Fluids (Interim rept. Nov 84-May 85) Midwest Research Inst., Kansas City, MO.

The report describes the results of a series of experiments which were conducted to augment the data presented in a previous report (EPA 560-5-84-009). The work presented here includes both repeat runs of those previously reported and also investigations of materials not previously tested. The results of the repeat runs correlate well with the previously reported results. The formation of PCDFs and PCDDs from the PCB-spiked mineral oil, as well as the calculated destruction efficiencies for PCBs, closely match the previously reported results. The repeat chlorobenzene runs show higher levels of PCDF and PCDD formation than previously. However, several concentrations in the previous report are 'greater than' values; hence, comparison is difficult. Significant amounts of PCDFs and PCDDs were formed from the tetrachloroethylene fluid. The two high temperature hydrocarbon

fluids did not produce PCDFs or PCDDs. It appears that, under these thermal destruction conditions, the extent of PCDF formation varies among dielectric fluids by several orders of magnitude.

Descriptors: *Insulating oil; *Transformers; *Combustion products; *Pyrolysis; *Air pollution; Industrial hygiene; Degradation; Flammability testing

Identifiers: *Polychlorinated biphenyls; *Toxic substances; NTISEPAOTS

PB86-103041/XAB

Comprehensive Assessment of the Specific Compounds Present in Combustion Processes. Volume 2. Design for a National Survey of Emission of Specific Compounds from Coal Fired Utility Boiler Plants (Final rept.) Midwest Research Inst., Kansas City, MO.

The emission of several toxic compounds in the polycyclic organic group has been reported from stationary combustion processes. It has been demonstrated that a theoretical potential exists for the formation of these compounds as the results of combustion of coal-refuse, wood, municipal refuse, waste oil, and coal. To investigate this topic further, a pilot study was designed to obtain data on which to base a national survey. The overall objectives of the pilot study were to ascertain the number of combustion sites and the number of days of sampling required at each site to adequately estimate the level and prevalence of these toxic substances in the emissions from combustion processes and to do so at a minimum cost. For each facility a complex, multimedia sampling design was developed for the collection of solid, liquid, and gaseous influents and effluents. In addition, measurements of process parameters were also taken. This design allowed for the estimation of the inputs into the process, the efficiency of the combustion process, and the emissions from the process. Using the estimates of the variability of the resulting data and cost estimates based on the experience gained in the pilot, a national survey design was developed. Sampling is planned for seven coal and nine refuse combustion facilities for 5 days each. Estimates of the levels of toxic substances are anticipated to have a precision of + or - 5 to + or - 60%.

Descriptors: *Polycyclic compounds; Air pollution; Surveys; Assessments; Boilers; Combustion products; Industrial wastes; Sampling; Aromatic polycyclic hydrocarbons; Field tests; Wood; Tables(Data); Sites; Gas analysis; Extraction; Design criteria; Performance evaluation; Cost analysis

Identifiers: *Toxic substances; *Coal fired power plants; *Stationary sources; *Air pollution sampling; *Air pollution detection; Refuse derived fuels; Waste oil; Polychlorinated biphenyls; Polychlorinated dibenzodioxins Polychlorinated dibenzofurans; Municipal wastes; NTISEPAOTS

PB86-103058/XAB

Comprehensive Assessment of the Specific Compounds Present in Combustion Processes. Volume 4. National Estimates of Emission of Specific Compounds from Coal Fired Utility Boiler Plants (Final rept.) Midwest Research Inst., Kansas City, MO.

Specimens were acquired from influents and effluents from seven coal-fired utility boilers. The specimens were chemically analyzed for toxic compounds in the polycyclic organic matter group. The specific target compounds were polychlorinated dibenzo(p)-dioxins (PCDDs), dibenzofurans (PCDFs), biphenyls (PCBs), selected polynuclear aromatic hydrocarbons (PAHs) and selected phthalates. Twelve PAH compounds and six phthalate compounds were included among the targetted compounds. Naphthalene was the most prevalent PAH compound detected. It was found in the flue gas emissions from all seven facilities. Other PAHs were also detected in the coal at all seven facilities but were only rarely detected in the other media. No PCDDs or PCDFs were detected in any of the acquired specimens. PCBs were only detected in one other media, the influent combustion air.

Descriptors: *Aromatic polycyclic hydrocarbons; *Phthalates; *Gas analysis; Air pollution; Flue gases; Assessments; Concentration (Composition); Industrial wastes; Chemical analysis; Combustion products; Tables(Data); Biphenyls

Identifiers: *Coal fired power plants; *Toxic substances; *Air pollution detection; Polychlorinated biphenyls; Polychlorinated dibenzofurans; Polychlorinated dibenzodioxins; NTISEPAOTS

PB86-107042/XAB

Methods for Assessing Exposure to Chemical Substances. Volume 4. Methods for Enumerating and Characterizing Populations Exposed to Chemical Substances (Final rept.) Versar, Inc., Springfield, VA.

The report, one of a series of reports concerning exposure assessment, describes methods for estimating the sizes of populations potentially exposed to chemical substances. Five categories of exposed populations are covered: (1) populations exposed to chemicals in the ambient environment, (2) workers, (3) populations exposed through ingestion of chemicals in food, (4) users of consumer products, and (5) populations exposed through ingesting chemicals in drinking water. The report contains general data on populations from governmental agencies such as the U.S. Bureau of Census, U.S. Department of Labor, U.S. Department of Agriculture, and EPA's Office of Drinking Water. It also contains step-by-step methods for locating and using data to enumerate each subpopulation identified as potentially exposed to toxic chemicals. Appendix A contains sample calculations illustrating the methods presented in the text. Appendix B is OSHA's Industry-Occupation (I-O) Matrix, described in Section 3 of the report.

Descriptors: *Hazardous materials; *Environmental surveys; *Toxicology; *Public health; *Industrial hygiene; *Chemical compounds; Exposure; Risk; Assessments; Sources; Industrial wastes; Ecology; Air pollution; Water pollution; Food

analysis; Populations; Humans; Exhaust emissions; Materials tests; Plants(Botany); Animals; Microorganisms; Potable water

Identifiers: *Health risks; *Toxic substances; *Environmental health; *Occupational safety and health; Path of pollutants; Land pollution; NTISEPAOTS

PB86-107059/XAB

Methods for Assessing Exposure to Chemical Substances. Volume 3. Methods for Assessing Exposure from Disposal of Chemical Substances (Final rept.) Versar, Inc., Springfield, VA.

The report, which is part of a series of volumes on exposure assessment, presents methods for estimating environmental releases of chemical substances from disposal sites. These release estimates must be used in conjunction with procedures given in Volume 2 (ambient exposure category) and Volume 5 (drinking water exposure category) in order to complete the exposure assessment. A five-stage methodological framework outlines the major steps that must be taken in order to estimate releases from disposal by landfilling, land treatment, surface impoundment, municipal wastewater treatment, incineration, and deep-well injection. The methods are applicable to chemical substances in all of the following waste categories: municipal solid waste, industrial solid waste (hazardous and nonhazardous), municipal wastewater, wastewater treatment sludges, and incinerator residues. The report provides guidance on information resources useful in completing each step and also discusses data gaps and limitations in predictive capability. Sample data and summaries of information resources are included in appendices.

Descriptors: *Hazardous materials; *Environmental surveys; *Toxicology; *Public health; *Industrial hygiene; *Chemical compounds; Exposure; Risk; Assessments; Sources; Industrial wastes; Incinerators; Air pollution; Water pollution; Ecology; Humans; Exhaust emissions; Materials tests; Plants(Botany); Animals; Microorganisms

Identifiers: *Health risks; *Toxic substances; *Environmental health; *Occupational safety and health; Path of pollutants; Land pollution; Land treatment; Municipal wastes; Sludge treatment; Surface impoundments; NTISEPAOTS

PB86-107067/XAB

Methods for Assessing Exposure to Chemical Substances. Volume 2. Methods for Assessing Exposure to Chemical Substances in the Ambient Environment (Final rept.) Versar, Inc., Springfield, VA.

The document is the second in a series of volumes developed for the U.S. Environmental Protection Agency, Office of Toxic Substances to assist in the assessment of exposure to chemical substances. This report presents methods that can be used to estimate exposure to chemical substances in the ambient environment and includes many tools, data sources, and models that are useful in the exposure

estimation procedures. The volume is organized to reflect the flow of information in an ambient exposure assessment.

Sections 2 and 3 provide information on the preliminary data required, i.e., production volume, physicochemical properties, and uses of the chemical substance. Section 4 contains a description of the availability and use of monitoring data bases and how monitoring data are integrated in the overall methods. Section 5 indicates how the population methods (Volume 4) fit into the overall process. Section 6 is the core of this volume; it addresses the analytical framework for calculating exposure and discusses how to access appropriate data for each of the analytical elements. To supplement the text, an Information Resource Matrix which indexes data bases and other resources is included as Appendix A; a list of chemicals studied and regulated by federal agencies as of 1984 is provided as Appendix B; and examples of pertinent data base outputs are given in Appendix C.

Descriptors: *Hazardous materials; *Environmental surveys; *Toxicology; *Public health; *Industrial hygiene; *Chemical compounds; Exposure; Risk; Assessments; Sources; Industrial wastes; Ecology; Air pollution; Water pollution; Humans; Exhaust emissions; Materials tests; Plants(Botany); Animals; Microorganisms; Mathematical models; Chemical analysis

Identifiers: *Health risks; *Toxic substances; *Environmental health; *Occupational safety and health; Path of pollutants; Land pollution; NTISEPAOTS

PB86-107083/XAB

Methods for Assessing Exposure to Chemical Substances. Volume 1. Introduction (Final rept.) Versar, Inc., Springfield, VA.

The document is the first in a series of volumes developed for the U.S. Environmental Protection Agency, Office of Toxic Substances to assist in the assessment of exposure to chemical substances. This introductory volume discusses issues of general interest in all exposure assessments, including a discussion on planning an assessment, and summarizes the contents of the next eight volumes. Planning an exposure assessment is a function of the purpose, scope, depth, and approach of the assessment. The report presents a list of questions that, when answered, aid the assessor in determining the resources and tools needed to do the assessment. The organization of an exposure assessment is discussed, and a basic outline that can be used is provided. The content of major sections in an exposure assessment are discussed: General Information, Sources, Exposure Pathways and Environmental Fate, Monitoring or Estimated Concentrations, Exposed Populations, and the Integrated Exposure Analysis. An overview of exposure assessments in different settings is presented. Different types of assessments (screening level, intermediate level, detailed, and special assessments) are described.

Descriptors: *Hazardous materials; *Environmental surveys; *Toxicology; *Public health; *Industrial hygiene; *Chemical compounds; Exposure; Risk; Assessments; Sources; Industrial wastes; Ecology; Air pollution; Water pollution; Humans; Exhaust emissions; Materials tests; Plants(Botany); Animals; Microorganisms

Identifiers: *Health risks; *Toxic substances; *Environmental health; *Occupational safety and health; Path of pollutants; Land pollution; NTISEPAOTS

PB86-107315/XAB

Verification of PCB (Polychlorinated Biphenyl) Spill Cleanup by Sampling and Analysis (Interim rept. no 2) Midwest Research Inst., Kansas City, MO.

The report, intended primarily for EPA enforcement personnel, outlines specific sampling and analysis methods to determine compliance with EPA policy on the cleanup of PCB spills. The sampling and analysis methods can be used to determine the residual levels of PCBs at a spill site following the completion of cleanup activities. Although the methodologies outlined in this document are applicable to PCB spills in general, specific incidents may require special efforts beyond the scope of this report. A sampling design is proposed for use by EPA enforcement staff in detecting residual PCB contamination above a designated limit after a spill site has been cleaned. The proposed design involves sampling on a hexagonal grid which is centered on the cleanup area and extends just beyond its boundaries. Quality assurance (QA) must be applied throughout the entire monitoring program. Quality control (QC) measures, including protocls, certification and performance checks, procedural QC, sample QC, and sample custody as appropriate, should be stipulated in a QA plan.

Descriptors: *Environmental surveys; Sampling; Chemical analysis; Chlorine organic compounds; Design criteria; Quality control; Quality assurance; Performance evaluation

Identifiers: *Chemical spills; *Polychlorinated biphenyls; *Waste treatment; Liquid wastes; NTISEPAOTS

PB86-109089/XAB

Analytical Method: The Analysis of By-Product Chlorinated Biphenyls in Commercial Products and Product Wastes. Revision 2 (Special rept. Sep 84-May 85) Midwest Research Inst., Kansas City, MO.

This is a gas chromatographic/electron impact mass spectrometric (GC/EIMS) method applicable to the determination of chlorinated biphenyls (PCBs) in commercial products and product wastes. The PCBs present may originate either as synthetic by-products or as contaminants derived from commercial PCB products (e.g., Aroclors). The PCBs may be present as single isomers or complex mixtures and may include all 209 congeners from monochlorobiphenyl through decachloro biphenyl. A variety of general and specific sample preparation options are presented in this method. This method takes a different approach from those which rely on Aroclor mixtures for calibration and quantitation. In this method PCBs are detected and quantitated by homolog group. The results can be summed to give a total PCB value comparable to results generated by other methods or they may be presented as 10 individual homolog values. This homolog distribution can provide additional quantitative information on the composition and source of the PCBs. The method performance is assessed for each sample. A set of four (sup 13)C labeled PCBs is

employed as recovery surrogates. If the surrogates are recovered and other QC parameters are within acceptable limits, then the data may be considered valid.

Descriptors: *Chemical analysis; *Byproducts; *Industrial wastes; *Environmental surveys; Chlorine organic compounds; Performance evaluation; Gas chromatography; Mass spectroscopy; Isotopic labeling; Sources; Design criteria; Concentration (Composition); Chemical industry; Quality control; Quality assurance; Reagents; Sampling; Safety; Calibration; Laboratory equipment

Identifiers: *Polychlorinated biphenyls; *Consumer products; Chlorinated biphenyls; *Solid wastes; *Liquid wastes; Electron impact spectra; Arocols; NTISEPAOTS

PB86-109097/XAB

Analytical Method: The Analysis of By-Product Chlorinated Biphenyls in Air. Revision 2 (Special rept. Sep 84-May 85) Midwest Research Inst., Kansas City, MO.

This is a gas chromatographic/electron impact mass spectrometric (GC/EIMS) method applicable to the determination of chlorinated biphenyls (PCBs) in air emitted from commercial production through stacks, as fugitive emissions, or static (room, other containers, or outside) air. The PCBs present may originate either as synthetic by-products or as contaminants derived from commercial PCB products (e.g., Aroclors). The PCBs may be present as single isomers or complex mixtures and may include all 209 congeners from monochlorobiphenyl through decachloro-biphenyl. A variety of general and specific sample preparation options are presented in this method. This method takes a different approach from those which rely on Aroclor mixtures for calibration and quantitation. In this method PCBs are detected and quantitated by homolog group. The results can be summed to give a total PCB value comparable to results generated by other methods or they may be presented as 10 individual homolog values. This homolog distribution can provide additional quantitative information on the composition and source of the PCBs. The method performance is assessed for each sample. A set of four (sup 13)C-labeled PCBs is employed as recovery surrogates. If the surrogates are recovered and other QC parameters are within acceptable limits, then the data may be considered valid.

Descriptors: *Chemical analysis; *Byproducts; *Industrial wastes; *Gas analysis; Chimneys; Chlorine organic compounds; Performance evaluation; Gas chromatography; Mass spectroscopy; Isotopic labeling; Sources; Design criteria; Concentration (Composition); Chemical industry; Quality control; Quality assurance; Reagents; Sampling; Safety; Calibration; Laboratory equipment

Identifiers: *Polychlorinated biphenyls; *Air pollution detection; *Consumer products; Electron impact spectra; Arocols; Fugitive emissions; NTISEPAOTS

PB86-109105/XAB

Analytical Method: The Analysis of By-Product Chlorinated Biphenyls in Water. Revision 2 (Special rept. Sep 84-May 85) Midwest Research Inst., Kansas City, MO.

This is a gas chromatographic/electron impact mass spectrometric (GC/EIMS) method applicable to the determination of chlorinated biphenyls (PCBs) in industrial wastewater. The PCBs present may originate either as synthetic by-products or as contaminants derived from commercial PCB products (e.g., Aroclors). The PCBs may be present as single isomers or complex mixtures and may include all 209 congeners from monochlorobiphenyl through decachlorobiphenyl. A variety of general and specific sample preparation options are presented in this method. This method takes a different approach from those which relyo n Aroclor mixtures for calibration and quantitation. In this method PCBs are detected and quantitated by homolog group. The results can be summed to give a total PCB value comparable to results generated by other methods or they may be presented as 10 individual homolog values. This homolog distribution can provide additional quantitative information on the composition and source of the PCBs. The method performance is assessed for each sample. A set of four (sup 13)C-labeled PCBs is employed as recovery surrogates. If the surrogates are recovered and other QC parameters are within acceptable limits, then the data may be considered valid.

Descriptors: *Chemical analysis; *Byproducts; *Industrial wastes; *Water analysis; Chlorine organic compounds; Performance evaluation; Gas chromatography; Mass spectroscopy; Isotopic labeling; Sources; Design criteria; Concentration (Composition); Chemical industry; Quality control; Quality assurance; Reagents; Sampling; Safety; Calibration; Laboratory equipment

Identifiers: *Polychlorinated biphenyls; *Consumer products; *Water pollution detection; *Chlorinated biphenyls; Electron impact spectra; Arocols; NTISEPAOTS

PB86-116522/XAB

Guidance for Controlling Asbestos-Containing Materials in Buildings: 1985 Edition Battelle Columbus Labs., Washington, DC.

The revised document provides EPA guidance on controlling asbestos-containing materials found in buildings. The document (1) provides a current summary of data on exposure to airborne asbestos, (2) survey procedures for determining if asbestos-containing material is present in buildings, (3) explains how to establish a special operations and maintenance program in a building found to contain asbestos, (4) reviews technical issues confronted when assessing the potential for exposure to airborne asbestos, in particular indoor settings, (5) suggests a structured process for selecting a particular course of action given information on physical condition of the asbestos, exposure levels, assessment methods, and abatement techniques, (6) summarizes and updates information on applicability, effectiveness, and relative costs of alternative remedial actions, (7) introduces and discusses criteria for determining successful asbestos control. The material presented is a summary of information and experience gained by EPA

through its Asbestos in Schools and Buildings Program and by a wide spectrum of experts in the field.

Descriptors: *Asbestos; *Construction materials; *Buildings; *Environmental surveys; *Schools; *Guidelines; Exposure; Revision; Air pollution control; Operation; Maintenance; Operation; Public health; Industrial hygiene; Public buildings; Commercial buildings

Identifiers: *Toxic substances; *Indoor air pollution; Occupational safety and health; NTISEPAOTS

PB86-132156/XAB

Methods for Assessing Exposure to Chemical Substances. Volume 5. Methods for Assessing Exposure to Chemical Substances in Drinking Water (Final rept.) Versar, Inc., Springfield, VA.

The report, one of a series of reports concerning exposure assessment, describes methods for estimating exposure to chemical substances via drinking water. The report is organized to reflect the framework or flow of required information. Section 2 provides an overview of drinking water systems and the pathways of exposure to chemical substances in drinking water, from the source of the substance through the treatment and distribution systems to the consuming population. Section 3 catalogues and discusses the various data bases and information sources that aid in the identification of contaminated drinking water supplies. Section 4 presents and discusses methods and simulation models that can be used to estimate the concentration of chemical substances in both surface and ground water.

Section 5 discusses drinking water treatment systems and processes, the effect the systems and processes have on different types of chemical substances, and how the information can be used to predict the concentration of a chemical substance in finished drinking water. Section 6 briefly discusses the enumeration and characterization of exposed populations; detailed information on the subject is provided in Volume 4 of the series. Finally, Section 7 discusses the procedures for calculating exposure as a result of contact with contaminated drinking water.

Descriptors: *Hazardous materials; *Environmental surveys; *Toxicology; *Public health; *Industrial hygiene; *Potable water; *Chemical compounds; Exposure; Risk; Assessments; Sources; Industrial wastes; Ecology; Air pollution; Water pollution; Ecology; Humans; Exhaust emissions; Materials tests; Plants(Botany); Animals; Microorganisms

Identifiers: *Health risks; *Toxic substances; *Environmental health; *Occupational safety and health; Path of pollutants; Land pollution; NTISEPAOTS

PB86-146230/XAB

Gastrointestinal Chemical Absorption Database, 1967-March 1985 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

The datafile contains 3273 articles on the absorption, distribution, metabolism, and excretion of approximately 2600 chemicals for oral routes of administration in laboratory animals or in man. Both quantitative and qualitative studies were included. Extracted data fields include number of figures, CAS registry number, chemical name, chemical type, chemical characteristics, study purpose, organism class, species name, strain, test duration, and route/method. Articles were selected from a literature search of Chemical Abstracts from 1967 - March 1985.

Descriptors: *Data file; *Gastrointestinal system; *Absorption(Biology); Magnetic tapes; Digestive system; Metabolism; Excretion; Tissues(Biology); Laboratory animals; Humans; Distribution

Identifiers: CAS registry numbers; *Toxic substances; NTISEPAOTS

PB86-147923/XAB

Sampling and Analysis Protocol for Assessing Organic Emissions from Stationary Combustion Sources in Exposure Evaluation Division Combustion Studies (Methods manual) Midwest Research Inst., Kansas City, MO.

The sampling and analysis methods described in the report were specifically designed for use in an ongoing nationwide survey of emissions of organic pollutants from stationary combustion sources. The primary focus of the survey is on polynuclear aromatic hydrocarbons (PAHs) and polychlorinated aromatic hydrocarbons including polychlorinated biphenyls (PCBs), polychlorinated dibenzo-p-dioxins (PCDDs), and polychlorinated dibenzofurans (PCDFs). To date, these procedures have been used by Midwest Research Institute (MRI) to survey emissions from coal-fired utility boilers, a co-fired (coal + refuse-derived fuel) utility boiler, and a municipal refuse incinerator. The document was prepared by MRI as a guideline for laboratories who may participate in the study, and for other researchers who wish to use these methods.

Descriptors: *Gas analysis; *Aromatic polycyclic hydrocarbons; *Chlorine organic compounds; *Air pollution; *Manuals; Sampling; Assessments; Industrial wastes; Combustion products; Environmental surveys; Extraction; Quality assurance; Sites; Laboratory equipment

Identifiers: *Air pollution detection; *Air pollution sampling; *Stationary sources; Coal fired power plants; Polychlorinated dibenzodioxins; Polychlorinated dibenzofurans; Polychlorinated biphenyls; Refuse derived fuels; Procedures; NTISEPAOTS

PB86-155256/XAB

Chemical Emergency Preparedness Program: Organizing the Community, Gathering Site-Specific Information, Contingency Plan Development, Contingency Plan Appraisal, The Criteria, Appendices (Interim guidance) Environmental Protection Agency, Washington, DC.

The document, developed by the U.S. Environmental Protection Agency (USEPA) is part of the USEPA National Air Toxics Strategy. The purpose of the document is to provide the public and state and local officials with information to assist them in planning how to respond to accidental releases of acutely toxic chemicals. It provides recommendations on how communities get organized, gather relavent information, and develop, evaluate and update contingency plans. It also describes the criteria used by the EPA to classify chemicals as acutely toxic and provides a list of 402 chemicals that meet these criteria.

Descriptors: *Chemical compounds; *Toxicity; *Air pollution; *Management planning; *Hazardous materials; Sites; State government

Identifiers: *National air toxics strategy; *Toxic substances; Environmental Protection Agency; Listings; NTISEPAOTS

PB86-155264/XAB

Chemical Emergency Preparedness Program: Chemical Profiles (Interim guidance) Environmental Protection Agency, Washington, DC.

The document, developed by the U.S. Environmental Protection Agency (USEPA) is part of the USEPA National Air Toxics Strategy. The document is provided in support of EPA Chemical Emergency Preparedness Program (CEPP) which deals with accidental release of acutely toxic chemicals. For each acutely toxic chemical listed in the CEPP guidance document (report number PB86-155256), a chemical profile is available. A chemical profile is a collection of information on the chemical identity hazardous identity, physical/chemical characteristics, fire and explosive hazard, reactivity, health hazard, use, and precautions for handling and use of the chemical. The information is presented in the format that conforms as closely as possible to the Occupational Safety and Health Administration (OSHA) recommended format for a Material Safety Data Sheet (MSDS).

Descriptors: *Chemical compounds; *Toxicity; *Air pollution; *Management planning; *Hazardous materials; Sites; State government; Accidents; Tables (Data); Safety; Chemical properties; Physical properties; Chemical analysis; Fire safety

Identifiers: *National air toxics strategy; *Toxic substances; Environmental Protection Agency; Listings; Occupational safety and health; NTISEPAOTS

PB86-157211/XAB

Methods for Assessing Exposure to Chemical Substances. Volume 6. Methods for Assessing Occupational Exposure to Chemical Substances (Final rept.) Versar, Inc., Springfield, VA.

The report, one of a series of reports concerning exposure assessment, describes methods and catalogs informations sources for estimating exposure to chemical substances in the occupational environment. The report provides specific guidance for conducting the various component analyses of an occupational exposure assessment. It details approaches used to identify chemical manufacturing, processing, and use locations, and for determining the chemical processes used. The types of monitoring data useful in occupational exposure assessments are addressed, as are relevant QA/QC considerations. The mass balance approach to estimating workplace contaminant concentrations in the absence of pertinent monitoring data is detailed, as are methods for evaluating contaminant transport and transformation in the workplace, and attendant worker exposure pathways.

Procedures for identifying, characterizing, and enumerating exposed worker populations are outlined, and methods are provided for calculating the level of exposure experienced by each population. The report concludes by providing two appendices. The first details the exposure potential associated with a number of major industrial processes, while the second identifies a large number of information sources useful in conducting occupational exposure assessments.

Descriptors: *Hazardous materials; *Environmental surveys; *Toxicology; *Public health; *Industrial hygiene; *Chemical compounds; Exposure; Risk; Assessments; Sources; Industrial wastes; Ecology; Air pollution; Water pollution; Ecology; Humans; Exhaust emissions; Materials tests; Plants (Botany); Animals; Microorganisms; Tables (Data)

Identifiers: *Health risks; *Toxic substances; *Environmental health; *Occupational safety and health; Path of pollutants; Land pollution; NTISEPAOTS

PB86-158946/XAB

Acute Hazardous Events Data Base
(Interim rept. (Final))
Industrial Economics, Inc., Cambridge, MA.

The Acute Hazardous Events Data Base (AHE) document contains summaries of records of 3,121 accidental releases of hazardous substances. Because of sampling, these records represent a larger population of 6,928 events. One section describes the background and methodology. Another discusses the 468 events associated with the reported 4,717 injuries and 138 deaths. Other sections summarize the events as a whole, with attention to end effects, causes and quantities. A section considers large-scale atmospheric releases, assessing similarities to the Bhopol accident. Appendices contain the data coding procedures; summary data base profiles; a list of chemicals reportedly released; summary statistics for events with reported deaths of injuries and for events with spills or vapor releases, but not fires or explosions; and a brief listing of all events with reported deaths or injuries.

Descriptors: *Hazardous materials; *Information systems; *Accident investigations; Public health; Air pollution; Exposure

Identifiers: *Toxic substances; *Chemical spills; *Environmental health; NTISEPAOTS

PB86-161759/XAB

Baseline Estimates and Time Trends for Beta-Benzene Hexachloride, Hexachlorobenzene, and Polychlorinated Biphenyls in Human Adipose Tissue 1970-1983 (Final rept.) Battelle Columbus Div., OH.

The National Human Adipose Tissue Survey (NHATS) is an on-going annual program to collect and chemically analyze adipose tissue specimens from a representative national sample of autopsied cadavers and surgical patients. The objective of the program is to estimate baseline levels and time trends for the presence of toxic chemicals in the adipose tissue of the U.S. population. This report presents the results of a statistical analysis conducted on three specific chemicals: Beta-benzene hexachloride (beta-BHC), hexachlorobenzene (HCB), and polychlorinated biphenyls (PCBs). The results are based on NHATS data collected between 1970 and 1983. The results include baseline estimates of the percentages of the population having detectable levels of these compounds in their adipose tissue as well as estimates of the mean and median levels. Estimates are given separately for various demographic groups and geographic regions of the country as well as national estimates. Results of the analysis indicate that nearly 100 percent of the population have detectable levels of these compounds in their adipose tissue. However, the actual levels of these compounds are either decreasing or remaining nearly constant.

Descriptors: Surveys; Humans; Public health; Tissues(Biology); Chlorine organic compounds; Trends

Identifiers: Baseline data; Toxic substances; *Adipose tissue; *Polychlorinated biphenyls; *Benzene/hexachloro; *Hexachloride/beta-benzene; NTISEPAOTS

PB86-165057/XAB

Evaluation of Asbestos Abatement Techniques. Phase 1. Removal (Final rept.) Battelle Columbus Div., Washington, DC.

Airborne asbestos levels were measured by transmission electron microscopy (TEM), scanning electron microscopy (SEM) and phase constrast microscopy (PCM) before, during and after removal of sprayed-on acoustical plaster from the ceilings of four suburban schools. Air samples were collected at three types of sites: indoor sites with asbestos-containing material (ACM), indoor sites without ACM (indoor control), and sites outside the building (outdoor control). Bulk samples of the ACM were collected prior to the removal and analyzed by polarized light microscopy (PLM). A vigorous quality assurance program was applied to all aspects of the study. Airborne asbestos levels were low before and after removal. Elevated, but

still relatively low levels were measured outside the work area during removal. This emphasizes the need for careful containment of the work area.

Descriptors: *Asbestos; *Air pollution control; *School buildings; Electron microscopy; Hazardous materials; Inspection; Removal

Identifiers: *Toxic substances; *Indoor air pollution; NTISEPAOTS

PB86-179819/XAB

Dermal Absorption of (14)C-Labeled 4,4'-Methylenedianiline (4,4'-MDA) in Rats, Guinea Pigs, and Monkeys (Final rept.) Midwest Research Inst., Kansas City, MO.

To help determine workplace exposure to 4,4'-MDA, studies were performed in male rats, guinea pigs and monkeys treated topically with a low (2 mg/kg) or high (20 mg/kg) dose of 14C-4,4'-MDA. Conditions of treatment (dosage, dose regimens, and occlusion) were assessed.The disposition of 4,4'-MDA was also examined after i.v. dosing. In rats, 43 and 10% of the low dose was recovered in urine and feces during a 96 h period; 2% remained in tissues and skin washing removed 25% of dose. The remainder (26%) was recovered by skin extraction and solubilization. The percent of dose absorbed decreased by increasing the dose, but the total amount absorbed (approx. 0.25 mg/rat) was similar after both doses. In g. pigs, 10 and 18% of the low dose was excreted in urine and feces; 1% was recovered in tissue, 41% in the skin wash and 29% from the application area. The percent of dose absorbed decreased following the high dose, but the amounts absorbed (in mg/animal) doubled.

Descriptors: *Absorption (Biology); *Skin (Anatomy); Rats; Guinea pigs; Monkeys; Laboratory animals; Measurement; Therapy; Dosage

Identifiers: *Methylenedianiline; *Dermal absorption; NTISEPAOTS

PB86-180148/XAB

Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials Battelle Columbus Labs., Washington, DC.

The simplified document provides EPA guidance for sampling friable sprayed-on or trowelled-on materials on ceilings, walls, and other surfaces for asbestos. The document furnishes advice for (1) identifying a sampling area, (2) applying a sampling scheme to the area, (3) determining the number to collect, (4) deciding upon sampling locations within the area, (5) formulating a quality assurance program for sampling and analysis, (6) collecting the samples, (7) submitting the samples for analysis, and (8) interpreting the laboratory results.

Descriptors: *Asbestos; Buildings; Friability; Surface finishing

Identifiers: NTISEPAOTS

PB86-196565/XAB

New Chemical Review Process Manual Dynamac Corp., Rockville, MD.

The purpose of the manual is to provide an introduction to the new chemical review process as it takes place in the Office of Toxic Substances (OTS) in EPA. The manual presents the process in terms of component procedures and meetings. A flow diagram of the process is included in the Appendix. The manual also presents EPA's statutory authority and options for action under section 5 of the Toxic Substances Control Act.

Descriptors: *Chemical compounds; *Regulations; Law enforcement; Public health; Manuals

Identifiers: *Toxic Substances Control Act; NTISEPAOTS

PB86-216512/XAB

Underground Motor Fuel Storage Tanks: A National Survey. Vol. 1. Technical Report. Vol. 2. Appendices (Final rept. Feb 84-May 86) Westat, Inc., Rockville, MD. Research Div.

A nationally representative sample of 2,812 establishments were interviewed to determine the presence of underground motor fuel storage tanks. The sample represented establishments in fuel-related industries (1,612), large establishments in all other industries (600), and farms (600). A total of 890 of these establishments were found to have a total of 2,445 underground motor fuel storage tanks. A subsample of 218 establishments was selected for tank tightness testing, using a modification of a commercially available test. The method over-filled the tank system into a standpipe, and thus detected leakage anywhere in the system of tank vessel, pipes, lines, joints, and fittings.

Descriptors: *Fuel tanks; *Fuel storage; Storage tanks; Tank linings; Leakage; Underground storage; Survey; Automotive fuels

Identifiers: NTISEPAOTS

PB86-216942/XAB

Field Manual for Grid Sampling of PCB (Polychlorinated Biphenyl) Spill Sites to Verify Cleanup (Interim rept. no. 3 May 85-May 86) Midwest Research Inst., Kansas City, MO.

The purpose of this manual is to provide detailed, step-by-step guidance to EPA staff for using hexagonal grid sampling at a PCB spill site. Guidance is given for preparing the sample design; collecting, handling, and preserving the samples taken; maintaining quality assurance and quality control; and documenting and reporting the sampling procedures used. An optional strategy for compositing samples is given in the appendix. This is a companion document to the report 'Verification of PCB Spill Cleanup by Sampling and Analysis' (EPA 560/5-85-026,

August 1985, Second Printing). This 'how-to' report concentrates on detailed guidance for field sampling personnel and does not attempt to provide background information on the techniques presented. The types of field sampling situations discussed in this manual are those typically found when a PCB spill results from a PCB article, PCB container, or PCB equipment spill. Unusual PCB spill situations, such as elongated spills on highways from a moving vehicle, large spills in waterways, and large, catastrophic spills, are not addressed.

Descriptors: *Environmental surveys; *Manuals; Sampling; Chemical analysis; Chlorine organic compounds; Performance; Quality assurance; Quality control

Identifiers: *Chemical spills; *Polychlorinated biphenyls; *Waste treatment; Liquid wastes; Procedures; NTISEPAOTS

PB86-220795/XAB

Toxic Substances Control Act (TSCA) Chemical Substances Inventory: Reissued Inventory Plantsite Information, May 1986 (Data file) Environmental Protection Agency, Washington, DC.

The Toxic Substances Control Act (TSCA) of 1976 tasks the Environmental Protection Agency to maintain an inventory of chemical substances (with certain exclusions) that are in United States commerce. The inventory was gathered from reports on substances that were produced or imported in 1975-1978. An updated version of the inventory, from which the data in these tapes were drawn, was published in October 1985. The TSCA Chemical Substance Inventory: Reissued Inventory Plansite Information File lists names and addresses for more than 7000 processors and manufacturers of chemicals. Each segment of the Production File contains data relevant to one submitter, identified by a manufacturer's ID, for one chemical substance, identified by a CAS registry number. The data elements present on the production file are: CAS registry number, production volume, activity, manufacturer's ID and processor activity. This file, with the TSCA production information, preferred name, and synonym files, provides the complete Toxic Substances Control Act inventory.

Descriptors: *Data file; *Chemical compounds; *Environmental surveys; Inventories; Chemical industry; Manufacturing; Magnetic tapes

Identifiers: *Toxic Substances Control Act; NTISEPAOTS

PB86-220803/XAB

Toxic Substances Control Act (TSCA) Chemical Substances Inventory: Reissued Inventory - Production Information File, May 1986 (Data file) Environmental Protection Agency, Washington, DC.

The Toxic Substances Control Act (TSCA) of 1976 tasks the Environmental Protection Agency to maintain an inventory of chemical substances (with certain exclusions) that are in United States commerce. This Inventory was gathered from reports on substances that were produced or imported in 1975-1978. An updated version of the

Inventory, from which the data in these tapes were drawn, was published in October 1985. The TSCA Chemical Substances Inventory: Reissued Inventory Production Information File contains production information for more than 50,000 chemicals. Each segment on the Production File contains data relevant to one submitter, identified by a Manufacturer's ID, for one chemical substance, identified by a CAS Registry Number. The data elements present on the Production File are: CAS Registry Number, Production Volume, Activity, Manufacturer's ID and Processor Activity. The file, with the TSCA Plantside Information, Preferred Name and Synonym files, provides the complete Toxic Substances Control Act Inventory.

Descriptors: *Data file; *Chemical compounds; *Environmental surveys; Inventories; Chemical industry; Manufacturing; Magnetic tapes

Identifiers: *Toxic Substances Control Act; NTISEPAOTS

PB86-220860/XAB

Toxic Substances Control Act (TSCA) Chemical Substances Inventory: Reissued Inventory Synonym File, May 1986 (Data file) Environmental Protection Agency, Washington, DC.

The Toxic Substances Act Chemical Substances Inventory: Reissued Inventory lists names for more than 50,000 chemical substances. This is the second file which is an index to the first by way of synonymous chemical names. Its entries are ordered alphabetically by name with the entries containing the same information as the Preferred Name File. The names included in the file are those valid names reported by submitters and the preferred CA Index Names. Because of possible ambiguities in nomenclature, the user should obtain and review the preferred CA Index Name in the Preferred Name File using the CAS Registry Number associated with the synonym concerned. This will not be necessary, however, in those cases where the name has an associated Name Code (e.g., 9CI) which signifies a preferred CA Index Name. The workunits in the file are in chemical name order. The order is not based on the EBCDIC form of the name, but rather a sortkey generated by a complex algorithm which queries various portions of the chemical name. Consequently, the file does not have a data element that identifies the sort order of the chemical names. However, for each physical file, the Sequence Number (data element 0012 01) can serve to identify the proper sequence of the names. The number is in ascending order having been generated during computer processing of the file. Each workunit of data can contain the following data elements: Molecular Formula, CAS Registry Number, Sequence Number, Preferred CA Index Name, Name Codes, UVCB Flag, Submitter Substance Name (reported), Chemical Substance Definition and EPA Flags. The file, with the TSCA Plantside Information, Production Information, and Preferred Name files, provides the complete Toxic Substances Control Act Inventory.

Descriptors: *Data file; *Chemical compounds; *Environmental surveys; Inventories; Magnetic tapes; Manufacturing

Identifiers: *Toxic Substances Control Act; NTISEPAOTS

PB86-220878/XAB

Toxic Substance Control Act (TSCA) Chemical Substances Inventory: Reissued Inventory Preferred Name File, May 1986 (Data file) Environmental Protection Agency, Washington, DC.

The Toxic Substance Act Chemical Substances Inventory: Reissued Inventory lists names and more than 50,000 Chemical Substances. The computer-readable TSCA Chemical Substance Inventory - 1985 Edition and its subsequent computer-readable supplements or cumulative reissues contain chemical substance information for those substances on the non-confidential substance identity portion of the TSCA Master Inventory File. For a complete understanding of the data contained on these tapes, it is necessary to consult the introductory material of the printed 1985 Edition. The revised inventory consists of two files: (1) Inventory preferred name file (EPA-560/7-86-003C); (2) Inventory synonym name file (EPA-560/7-86-003D). This is the first file which contains each substance with its CAS Registry Number, preferred CA Index Name, molecular formula, and other appropriate information. The entries are in ascending CAS Registry Number order. The workunits in the file are in ascending order by CAS Registry Number. Each workunit of substance data can contain the following data elements: Molecular Formula, CAS Registry Number, Sequence Number, Preferred CA Index Name, Name Codes, Replaced Registry Numbers, UVCB Flag, Chemical Substances Definition and EPA Flags. The file with the TSCA Plantside Information, Production Information, and Synonym files, provides the complete Toxic Substances Control Act Inventory.

Descriptors: *Data file; *Chemical compounds; *Environmental surveys; Inventories; Magnetic tapes; Manufacturing

Identifiers: *Toxic Substances Control Act; NTISEPAOTS

PB86-224078/XAB

Development of a Tank Test Method for a National Survey of Underground Storage Tanks (Revised Draft) (Final rept. Jun 85-Jan 86) Midwest Research Inst., Kansas City, MO.

Leaking underground storage tanks have become a matter of national concern. Materials leaking from underground tanks can pose a risk of groundwater contamination and in the case of flammable materials, a risk of fire or explosion. The United States Congress, in recognition of this problem, mandated the Environmental Protection Agency to develop regulations for underground storage tanks containing motor fuels. As a part of the regulatory process, EPA was mandated to conduct a national survey of underground fuels storage tanks. The objectives of the project were to evaluate and select a suitable method for testing the tanks, quantify the performance of the recommended method, and develop a standard operating procedure for tank testing for the national survey. The initial phase of the project was a preliminary evaluation of existing tank test methods by literature review and field observation.

Descriptors: *Fuel storage; *Underground storage; *Fuel tanks; Leakage; Storage tanks; Tests

Identifiers: NTISEPAOTS

PB86-233301/XAB

Statistical Support Document for Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials Battelle Columbus Labs., Washington, DC.

Provides the statistical support for the EPA document 'Asbestos In Buildings: Simplified Sampling Scheme for Friable Surfacing Materials.' Designed to supplement the sampling scheme document by demonstrating the statistical basis for the scheme.

Descriptors: *Asbestos; *Buildings; Sampling; Statistical samples; Statistical analysis

Identifiers: NTISEPAOTS

PB87-107850/XAB

Methods for Assessing Exposure to Chemical Substances. Volume 8. Methods for Assessing Environmental Pathways of Food Contamination (Final rept.) Little (Arthur D.), Inc., Cambridge, MA.

The report describes methods for evaluating exposure to chemical substances in food. It is intended to provide an approach for estimating human exposure to toxic substances in food when those substances enter the food through environmental pathways. The methodology provides guidelines and methods in the form of a step-by-step approach. It allows the use of available residue data, but also provides methods for identification of important contamination pathways based on chemical uses and properties. Estimation methods for some contamination pathways are suggested as well as sources of information to assist the user.

Descriptors: *Toxicity; *Food contamination; Assessments; Exposure; Humans; Evaluation; Concentration(Composition); Estimates; Diets; Food consumption; Chemical properties; Ingestion; Feeding stuffs; Pollution; Sources; Food chains

Identifiers: *Chemical compounds; *Path of pollutants; NTISEPAOTS

PB87-119053/XAB

Evaluation of Asbestos Abatement Techniques. Phase 2. Encapsulation with Latex Paint (Final rept. May 84-Nov 85) Battelle Columbus Div., Washington, DC.

Airborne asbestos levels were measured by transmission electron microscopy (TEM) before, during and after encapsulation of asbestos-containing material with latex paint in a suburban junior high school. The ceilings of the school were covered

with a sprayed-on material containing chrysotile asbestos. Air samples were collected at four types of sites: indoor sites with unpainted asbestos material scheduled for painting, indoor sites with asbestos material which had been painted 16 months prior to the study, indoor sites with no asbestos material, and outdoor sites on the roof of the building. Bulk samples were collected prior to painting and analyzed by polarized light microscopy (PLM) to characterize the asbestos-containing material.

Descriptors: *Asbestos; *Air pollution control; *School buildings; *Encapsulating; Hazardous materials; Inspection; Paints; Latex; Protective coatings; Concentration(Composition); Abatement

Identifiers: *Toxic substances; *Indoor air pollution; NTISEPAOTS

PB87-120614/XAB

Exposure Assessment for Hexachlorobenzene (Final rept.) Versar, Inc., Springfield, VA.

The report analyzes the exposure of the human population to hexachlorobenzene (HCB), a fully chlorinated, six-membered aromatic carbon compound that has been used as a pesticide and is also present as a contaminant in other agriculturally dispersed organochlorine compounds. HCB also has been used, in the past, in several manufacturing processes not related directly to agriculture. It has been detected in nearly all human fat samples monitored in the U.S.A. Section 2 of the report lists the chemical and physical properties of HCB. Section 3 presents a source assessment, which contains estimates on HCB releases to the environment. Section 4 provides information of the environmental fate of HCB in air, water, and soil, along with a discussion of the bioaccumulation of HCB in plants and animals. A discussion of the available monitoring data is included in Section 5. Section 6 presents the modeling results of the estimated HCB concentrations in air near incinerators that may release HCB and in air and ground water near model landfills that contain HCB. Several exposure scenarios are presented in Section 7. Finally, conclusions and hypotheses are provided in Section 8.

Descriptors: *Humans; *Exposure; Chlorine organic compounds; Assessments; Public health; Air pollution; Water pollution; Land pollution; Pesticides; Bioaccumulation; Concentration (Composition)

Identifiers: *Toxic substances; *Benzene; *Environmental monitoring; Environmental health; Environmental transport; Environmental fate; Ingestion; NTISEPAOTS

PB87-120978/XAB

Asbestos in Buildings: Guidance for Service and Maintenance Personnel Battelle Columbus Labs., Washington, DC.

The illustrated booklet has been prepared by the United States Environmental Protection Agency to assist service and maintenance personnel in implementing

special Operating and Maintenance procedures in buildings containing asbestos. The information is extracted from 'Guidance for Controlling Asbestos-Containing Materials in Buildings' (EPA 560/5-85-024).

Descriptors: *Asbestos; *Buildings; Removal; Guidance; Maintenance; Materials handling; Air pollution control; Public health; Disposal

Identifiers: *Indoor air pollution; Health hazards; NTISEPAOTS

PB87-120986/XAB

Asbestos En Edificios: Guia para el Personal di Servicio y Mantenimiento (Asbestos in Buildings: Guidance for Service and Maintenance Personnel) Battelle Columbus Labs., Washington, DC.

The illustrated booklet for spanish speaking employees, has been prepared by the United States Environmental Protection Agency to assist service and maintenance personnel in implementing special Operating and Maintenance procedures in buildings containing asbestos. The information is extracted from 'Guidance for Controlling Asbestos-Containing Materials in Buildings' (EPA 560/5-85-024).

Descriptors: *Asbestos; Buildings; Maintenance; Guidance; Removal; Materials handling; Air pollution control; Public health; Disposal

Identifiers: *Indoor air pollution; Health hazards; NTISEPAOTS

PB87-129409/XAB

Preliminary Evaluations of Initial TSCA (Toxic Substances Control Act) Section 8(e) Substantial Risk Notices. January 1, 1983 to December 31, 1984 Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

The volume contains, in ascending submission number order, 'status report' (i.e., preliminary evaluations) prepared by staff of the Office of Toxic Substances in EPA's Office of Pesticides and Toxic Substances for initial submissions received by EPA from chemical manufacturers, importers, processors, and distributors from January 1, 1983 to December 31, 1984 under Section 8(e), the 'substantial risk' information reporting provision of the Toxic Substances Control Act (TSCA). The status reports contained in this compendium reflect only the initial phases of EPA's evaluation process for the submitted information.

Descriptors: Aldehydes; Chemical compounds; Plastics; Evaluation; Risk; Hazards; Public health; Environmental surveys

Identifiers: *Toxic Substances Control Act; *Toxic substances; NTISEPAOTS

PB87-139283/XAB

Environmental Fate Data Base (ENVIROFATE): Chemical Name File (CASLST), March 1986 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

Environmental fate is a term describing the behavior of a chemical which is released to the environment. This is particularly important in determining whether a chemical will come in contact with a critical species or with man in sufficient concentrations to cause a toxic effect or, in contrast, be rapidly degraded to innocuous products. The Environmental Fate includes physical and chemical properties, transport and degradation studies, ambient monitoring data, and field studies. The Environmental Fate Data Base (ENVIROFATE) is composed of four interrelated files: CASLST, BIOLOG, DATALOG and XREF. CASLST is a listing of CAS Registry Numbers, molecular formulae, and names for chemicals included in the next two tapes. They are linked by CAS Registry Number.

Descriptors: *Data file; *Chemical compounds; Degradation; Molecular structure; Chemical properties; Physical properties; Field tests; Concentration (Composition); Ecology

Identifiers: *Environment pollution; *Environmental fate; *Environmental transport; *Path of pollutants; Environmental monitoring; CAS registry numbers; Toxic substances; Fate of pollutants; ENVIROFATE data base; Data bases; NTISEPAOTS

PB87-139291/XAB

Environmental Fate Data Base (ENVIROFATE): Environmental Fate Data (DATALOG), March 1986 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

Environmental fate is a term describing the behavior of a chemical which is released to the environment. This is particularly important in determining whether a chemical will come in contact with a critical species or with man in sufficient concentrations to cause a toxic effect or, in contrast, be rapidly degraded to innocuous products. The Environmental Fate includes physical and chemical properties, transport and degradation studies, ambient monitoring data, and field studies. The Environmental Fate Data Base (ENVIROFATE) is composed of four interrelated files: CASLST, BIOLOG and DATALOG, and XREF. DATALOG is a data index file that indicates types of fate data available in the open literature. Each DATALOG record contains a CAS registry number, one of 18 data types relevant to environmental fate and human exposure, and an abbreviated reference. A chemical name and formula are included to aid in identification.

Descriptors: *Data file; *Toxicity; *Chemical compounds; Chemical properties; Physical properties; Transport; Degradation; Magnetic tapes

Identifiers: *Environment pollution; *Data bases; *Environmental exposure pathway; *Chemical attack (Degradation); Files (Records); NTISEPAOTS

PB87-139309/XAB

Environmental Fate Data Base (ENVIROFATE): Microbial Degradation/Toxicity Data (BIOLOG), March 1986 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

Environmental fate is a term describing the behavior of a chemical which is released to the environment. This is particularly important in determining whether a chemical will come in contact with a critical species or with man in sufficient concentrations to cause a toxic effect or, in contrast, be rapidly degraded to innocuous products. The Environmental Fate includes physical and chemical properties, transport and degradation studies, ambient monitoring data, and field studies. The Environmental Fate Data Base (ENVIROFATE) is composed of four interrelated files: CASLST, BIOLOG, DATALOG and XREF. BIOLOG is a bibliographic file containing open literature information on microbial biodegradation and toxicity of chemicals. The references are indexed according to six data categories, which enables the user to select references which contain the indicated types of data within the data category. The data categories are: degradation/toxicity; oxygen condition (anaerobic/aerobic); culture (pure enzyme, pure culture, mixed culture, cell-free extract); source (soil, sediment, sewage, water-fresh, water-marine, other); mechanism reported and data source. As of February, 1986, there were over 25,000 records in the file.

Descriptors: *Data file; *Chemical compounds; *Toxicity; Degradation; Sources; Reaction mechanisms; Aerobic bacteria; Anaerobic conditions; Cultures (Biology)

Identifiers: *Microbial processes; *Biodegradation; *Environmental fate; ENVIRONFATE database; Data bases; NTISEPAOTS

PB87-139317/XAB

Environmental Fate Data Base (ENVIROFATE): Journal Citations (XREF), March 1986 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

Environmental fate is a term describing the behavior of a chemical which is released to the environment. This is particularly important in determining whether a chemical will come in contact with a critical species or with man in sufficient concentrations to cause a toxic effect or, in contrast, be rapidly degraded to innocuous products. Environmental Fate includes physical and chemical properties, transport and degradation studies, ambient monitoring data, and field studies. The Environmental Fate Data Base (ENVIPOFATE) is composed of four interrelated files: CASLST, BIOLOG, DATALOG, and XREF. XREF is a file containing the complete references to journal articles cited in DATALOG and BIOLOG. The abbreviated references in DATALOG and BIOLOG can retrieve the complete references contained in the file. XREF is keyed alphabetically by author.

Descriptors: *Data file; *Toxicity; *Chemical compounds; Chemical properties; Physical properties; Toxic shock; Transport; Degradation; Monitoring; Magnetic tapes

Identifiers: *Environment pollution; *Data bases; *ENVIROFATE data base; *Environmental exposure pathway; *Chemical attack (Degradation); Files (Records); NTISEPAOTS

PB87-146817/XAB

Layman's Guide to the Toxic Substances Control Act, Environmental Protection Agency, Washington, DC. Office of Toxic Substances.

Contents: Introduction; Scope of the law; Testing of chemicals; Premanufacture and significant new use notifications; Control of hazardous chemicals; Recordkeeping and reporting; Relationship to other federal laws; Research, monitoring, and data systems; Exports and imports; Disclosure of data; Effect on state laws; State programs; Judicial review; Actions by citizens; Employee protection; Civil and criminal penalties; Enforcement; TSCA assistance office; Further information; EPA regional offices.

Descriptors: Law (Jurisprudence); Hazardous materials; Toxicity; Instructions; Regulations

Identifiers: *Environmental legislation; *Toxic Substances Control Act; *Toxic substances; Premanufacture notice; Significant new use rule; Chemical testing; NTISEPAOTS

PB87-148284/XAB

Formaldehyde and Cancers of the Pharynx, Sinus and Nasal Cavity. Tape Documentation Battelle Washington Operations, DC.

The tape contains eight files of data collected for an EPA-sponsored case-control study of nasal and pharyngeal cancer and formaldehyde associations. The study was conducted by the Fred Hutchinson Cancer Research Center and is published as 'Formaldehyde and Cancers of the Pharynx, Sinus, and Nasal Cavity,' T. L. Vaughan et al. Int. J. Cancer: 38, 677-688 (1986).

Descriptors: *Formaldehyde; *Toxicology; Interviews; Demography; Exposure; Smoking; Alcohol; Medical examination

Identifiers: *Malignant neoplasms; *Cancer; *Pharynx; *Sinus; *Nasal cavity; NTISEPAOTS

PB87-148292/XAB

Formaldehyde and Cancers of the Pharynx, Sinus and Nasal Cavity (Data file), Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

The tape contains eight files (listed below) of data collected for an EPA-sponsored case-control study of nasal and pharyngeal cancer and formaldehyde

associations. The study was conducted by the Fred Hutchinson Cancer Research Center between December, 1982 and February, 1986 through a subcontract from Science Applications International Corporation. The study attempted to include all incident cases of cancer of the nasal cavity and sinus occurring between 1/1/79 - 12/31/83, and cancer of the pharynx occurring between 1/1/80 - 12/31/83. The study population included residents of 13 counties in western Washington who were between the ages of 20-74 at the time of diagnosis. The study data were collected through interviews, and include information on the demographic, chemical exposure, smoking, alcohol, and medical histories of the persons interviewed. Data Files: NASDB1 General interview data, including medical history, tobacco use, occupation, alcohol history, and background information. NASDBC Chemical exposure data. NASDBF Diet data. NASDBO Occupation data. NASDBR Residence data. NASCSS Cancer registry data. IDNUM List of numbers identifying the cases and controls analyzed for the study. FORMOCC Formaldehyde exposure - job linkage system data.

Descriptors: *Data file; *Formaldehyde; *Toxicology; Magnetic tapes; Interviews; Demography; Exposure; Smoking; Alcohol; Medical examination

Identifiers: *Malignant neoplasms; *Cancer; *Pharynx; *Sinus; *Nasal cavity; NTISEPAOTS

PB87-157574/XAB

Guide to Respiratory Protection for the Asbestos Abatement Industry (Revised) (Final rept.) National Inst. for Occupational Safety and Health, Morgantown, WV. Div. of Safety Research.

The guide provides practical guidance for selection and use of respiratory protection to persons who work in asbestos abatement operations or other activities, such as maintenance or repair, where exposure or the potential for exposure to asbestos exists. The guide recommends controlling exposures to the lowest level possible as determined by the most sensitive and reliable monitoring methods. The guide has five parts. Part I is an introduction to the hazards associated with airborne asbestos and to the issues involving respiratory protection against asbestos. Part II presents a model respiratory protection program for the asbestos industry which both satisfies current Federal regulations and incorporates the most current information on appropriate respirators for use against airborne asbestos fibers. Part III contains a checklist for developing or evaluating a respiratory protection program. Part IV presents information on breathing air systems for supplied-air respirators. Part V lists sources of help for problems involving respirator use.

Descriptors: *Asbestos; *Air pollution control; *Respirators; Hazardous materials; Exposure; Inspection

Identifiers: *Air pollution abatement; *Protective devices; Toxic substances; Occupational safety; Health hazards; NTISEPAOTS

PB87-176004/XAB

Preliminary Evaluations of Initial TSCA (Toxic Substances Control Act) Section 8(e) Substantial Risk Notices. January 1, 1985 to December 31, 1986 Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

The volume contains, in ascending submission number order, 'status reports' (i.e., preliminary evaluations) prepared by staff of the Office of Toxic Substances in EPA's Office of Pesticides and Toxic substances for initial submissions received by EPA from chemical manufacturers, importers, processors and distributors from January 1, 1985 to December 31, 1986 under Section 8(e), the 'substantial risk' information reporting provision of the Toxic Substances Control Act (TSCA). The status reports contained in this compendium reflect only the initial phase of the Agency's evaluation process for the submitted information. The TSCA Section 8(e) status reports volume has been published by the Agency for two reasons. First, a volume of Section 8(e) status reports with appropriate indices will make the submitted information more accessible. Second, this volume may, by providing specific examples of submitted information and EPA's preliminary evaluation of that information, help those persons subject to Section 8(e) understand better the types of information that should be submitted to EPA under this mandatory reporting provision of TSCA.

Descriptors: Risk; Public health; Hazards; Chemical compounds; Environmental surveys; Evaluation

Identifiers: *Toxic substances control act; *Toxic substances; Health hazards; NTISEPAOTS

PB87-177218/XAB

Broad Scan Analysis of Human Adipose Tissue. Volume 1. Executive Summary (Final rept.) Midwest Research Inst., Kansas City, MO.

The National Human Adipose Tissue Survey (NHATS) provides the U.S. EPA with a unique capability for monitoring human exposure to potentially toxic substances that persist in the environment. NHATS is an annual program to collect and chemically analyze adipose tissues from a cross-section of the general U.S. population. Historically, the analysis of the tissues has focused on PCBs and organochlorine pesticides. EPA's Office of Toxic Substances (OTS) has developed an aggressive approach to provide a comprehensive assessment of potentially toxic substances in human adipose tissue. A broad scan analysis concept was introduced beginning with specimens collected in fiscal year 1982. The tissues were analyzed as composites based on the nine U.S. Census divisions and three age groups. The composites were analyzed for volatile and semivolatile organics at the parts per billion level and PCDD and PCDF at the parts per trillion level. Several tissue samples were analyzed by individually coupled plasma-atomic emission spectroscopy (ICP-AES) and neutron activation analyses (NAA). The report provides a synopsis of each of these analytical efforts.

Descriptors: *Environmental surveys; *Humans; Exposure; Inspection; Concentration (Composition); Bioassays; Chemical analysis

Identifiers: *Toxic substances; *Adipose tissues; *Volatile organic compounds; *Polychlorinated dibenzodioxins; *Polychlorinated dibenzo furans; NTISEPAOTS

PB87-177226/XAB

Broad Scan Analysis of Human Adipose Tissue. Volume 2. Volatile Organic Compounds (Final rept.) Midwest Research Inst., Kansas City, MO.

The U.S. EPA's Office of Toxic Substances (OTS) maintains a unique capability for monitoring human exposure to potentially toxic substances through the National Human Adipose Tissue Survey (NHATS). The primary focus for NHATS has been to document trends in human exposure to environmentally persistent contaminants, specifically organochlorine pesticides and polychlorinated biphenyls(PCBs). EPA/OTS has recognized a need to expand the use of the NHATs program to provide a more comprehensive assessment of toxic substances that are accumulated in adipose tissue. The report deals specifically with the measurement of volatile organic chemicals in composited adipose tissue specimens from the FY82 NHATS repository. Quantitative data are reported for 17 specific volatile compounds that are classified as aromatic, chlorinated aromatic, or halogenated aliphatic. The frequency of detection of each compound based on age group (0-14, 15-44, 45 plus years) are detailed in the report. The analytical procedures and QA/QC efforts are also described.

Descriptors: *Environmental surveys; *Humans; Exposure; Inspection; Concentration(Composition); Tissues; Chemical analysis; Bioassays; Quality control; Quality assurance; Tables (Data); Graphs (Charts)

Identifiers: *Volatile organic compounds; *Adipose tissue; *Toxic substances; National Human Adipose Tissue Survey; Bioaccumulation; *Clinical techniques; NTISEPAOTS

PB87-177234/XAB

Broad Scan Analysis of Human Adipose Tissue. Volume 4. Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) (Final rept.) Midwest Research Inst., Kansas City, MO.

The U.S. EPA's Office of Toxic Substances (OTS) maintains a unique capability for monitoring human exposure to potential toxic substances through the National Human Adipose Tissue Survey (NHATS). The primary focus for NHATS has been to document trends in human exposure to environmentally persistent contaminants, specifically, organochlorine pesticides and polychlorinated biphenyls (PCBs). The report deals specifically with the measurement of polychlorinated dibenzo-p-dioxins (PCDD) and polychlorinated dibenzofurans (PCDF) in composited adipose tissue samples from the FY82 NHATS repository. The results of the study demonstrate that the EPA NHATS program is an effective vehicle for documenting the exposure of the general U.S. population to PCDDs and PCDFs. The analysis of the 46 composite samples prepared from the fiscal year 1982 NHATS repository establishes the prevalence of the 2,37,8- substituted tetra- through octachloro-PCDD and PCDF congeners in the U.S.

population. The PCDD and PCDF levels are comparable to data presented from other studies that focus on samples collected in upstate New York, Canada, and Sweden.

Descriptors: *Environmental surveys; *Humans; Chemical analysis; Concentration (Composition); Tables (Data)

Identifiers: *Toxic substances; *Polychlorinated dibenzodioxins; *Polychlorinated dibenzofurans; *Adipose tissue; *Clinical techniques; NTISEPAOTS

PB87-180519/XAB

Broad Scan Analysis of Human Adipose Tissue. Volume 3. Semivolatile Organic Compounds (Final rept.) Midwest Research Inst., Kansas City, MO.

The U.S. EPA's Office of Toxic Substance (OTS) maintains a unique capability for monitoring human exposure to potentially toxic substances through the National Human Adipose Tissue Survey (NHATS). This report deals specifically with the measurement of semivolatile organic chemicals in composited adipose tissue specimens from the FY82 NHATS repository. Quantitative data for organochlorine pesticides, polychlorinated buphenyls (PCBs), polynuclear aromatic hydrocarbons, phthalate esters, and phosphate triesters were determined for each composite. The frequencies of detection for each of the compounds based on the specific age group and census division are detailed in the report. The feasibility of determining other halogenated aromatic compounds using this method was demonstrated through the analysis of spiked adipose tissue samples.

Descriptors: *Scanning; *Connective tissue; *Organic compounds; *Contaminants; Toxicology; Exposure; Detection; Aromatic compounds; Tables(Data)

Identifiers: *Adipose tissue; NHATS(National Human Adipose Tissue Survey); NTISEPAOTS

PB87-180527/XAB

Broad Scan Analysis of Human Adipose Tissue. Volume 5. Trace Elements (Final rept.) Midwest Research Inst., Kansas City, MO.

The U.S. EPA's Office of Toxic Substances (OTS) maintains a unique capability for monitoring human exposure to potentially toxic substances through the National Human Adipose Tissue Survey (NHATS). This report deals with the measurement of trace elements in selected adipose tissue specimens from the FY82 NHATS repository. The analyses of nine selected adipose tissue specimens from the FY82 NHATS repository were completed using two multielement techniques: inductively coupled plasma-atomic emission spectroscopy (ICP-AES) and neutron activation analysis (NAA). A total of 18 elements were detected using the two techniques and the estimated tissue levels are reported.

Descriptors: *Scanning; *Connective tissue; *Trace elements; Toxicology; Exposure; Detection; Spectroscopy; Neutron activation analysis; Tables (Data)

Identifiers: *Adipose tissue; NHATS(National Human Adipose Tissue Survey); NTISEPAOTS

PB87-183406/XAB

Use and Disposal of Nonbiodegradable Plastics in the Marine and Great Lakes Environments (Final rept.) Center for Environmental Education, Washington, DC.

The objectives of the report are to identify and examine existing control authorities concerning the use and disposal of nondegradable plastics in the marine environment and prepare a report that provides: A summary of existing data on the means, nature and extent of damage to the marine environment from the use and disposal of nondegradable plastics. Expert identification and review of all U.S. and international treaties and authorities applicable to the use and disposal of nondegradable plastics in the marine environment. Expert identification and review of current and future program plans of international, rational, state and local entities as they respond to the use and disposal of nondegradable plastics in the marine environment.

Descriptors: *Plastics; *Waste disposal; *Great Lakes; *Oceans; Legislation; Degradation; Treaties; Damage; International law; Seals (Mammals); State government; Local government; Fisheries; Marine terminals; Debris; Buoys; Packaging materials; North Pacific Ocean; Bands; Sheets

Identifiers: Nondegradation; NTISEPAOTS

PB87-186490/XAB

Environmental Fate Data Base (ENVIROFATE): Chemical Name File (CASLST), February 1987 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

The tape includes the chemical name, molecular formula, and CAS registry number for each chemical added to the ENVIROFATE database by these supplements. The tape is to be used in conjunction with DATALOG, BIOLOG, CHEMFATE and XREF files (transmitted together with these) in order to link chemical names and formulas to the CAS registry numbers contained in DATALOG, BIOLOG, and CHEMFATE. The CASLST file consists of three fields: (1) Chemical Abstract Service Registry Number (CAS) which is numberical and 9 bytes in length; (2) Chemical formula (FOR) which is textural and 23 bytes in length; and (3) Chemical name (CNA) which is textural and 48 bytes in length.

Descriptors: *Data file; *Chemical compounds; Magnetic tapes; Degradation; Molecular structure; Chemical properties; Physical properties; Field tests; Concentration (Composition); Ecology

Identifiers: *Environment pollution; *Environmental fate; *Environmental transport; *Path of pollutants; Environmental monitoring; CAS Registry numbers; Toxic substances; Fate of pollutants; Environfate database; Data bases; NTISEPAOTS

PB87-186508/XAB

Environmental Fate Data Base (ENVIROFATE): Data Pointer File (DATALOG), February 1987 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

DATALOG is a bibliographic pointer file of environmental fate data and each record contains a chemical CAS registry number (9 bytes), one of 18 data types (9 bytes), and a reference number (6 bytes) to the full citation in the XREF file. The data types identify physical properties, degradation and transport studies, and food, occupational and ambient monitoring data. The file should be used with CASLST (in order to link the chemical name and formula) and XREF (in order to link the full reference citation). A list of possible data types and their abbreviations are: Adsorption (ADSORP), Bioconcentration (BIOCON), Biodegradation (BIODEG), Dissociation constant (DISS CON), Ecosystem (ECOS), Effluent concentrations (EFFL), Evaporation from water (EVAP), Food and crop concentrations (FOOD), Field studies (FIELD), Henry's Law constant (HENRY CON), Hydrolysis (HYDROL), Monitoring (MONIT), Occupational concentrations (OCCUP), Octanol/water partition coefficient (O/W PART), Photoxidation (PHOTOOXID), UV Spectra (UV), Vapor pressure (UP) and Water solubility (WATER SOL).

Descriptors: *Data files; *Toxicity; *Chemical compounds; Chemical properties; Physical properties; Transport; Degradation; Magnetic tapes

Identifiers: *Environment pollution; *Environmental exposure; *Chemical attack (Degradation); Path of pollutants; Files (Records); Environfate database; Datalog database; CAS registry number; NTISEPAOTS

PB87-186516/XAB

Environmental Fate Data Base (ENVIROFATE): Microbial Degradation/Toxicity Data (BIOLOG), February 1987 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

BIOLOG is a bibliographic pointer file of microbial biodegradation/toxicity data. Each record contains a Chemical Abstract Services Registry Number (9 bytes), a string of data codes (total of 10 bytes) and a reference number (6 bytes). The string of data codes is divided into (1) an indication of biodegradation (B) or microbial toxicity (T) data (1 byte); (2) oxygen condition - aerobic (AE) or anaerobic (AN) (2 bytes); (3) culture type - pure enzyme (PE), pure culture (PC), mixed culture (MC), or cell-free extract (CF) (2 bytes); (4) source of microorganism - soil (SOI), sediment (SED), sewage (SEW), fresh water (WAF), marine water (WAM) or other (OTH) (3 bytes); (5) whether the pathway of degradation was (R) or was not (blank) studied (1 byte); and (6) data source - DATALOG (D) or various files from Dr. Martin Alexander at Cornell University (H, M, G, A, or P) (1 byte). The file should be used with CASLST (in order to link

the chemical name and formula) and XREF (in order to link the full reference citation).

Descriptors: *Data file; *Chemical compounds; *Toxicity; Degradation; Sources; Reaction mechanisms; Aerobic bacteria; Anaerobic conditions; Cultures (Biology); Magnetic tapes

Identifiers: *Microbial processes; *Biodegradation; *Environmental fate; Environfate database; Data bases; NTISEPAOTS

PB87-186524/XAB

Environmental Fate Data Base (ENVIROFATE): Journal Citations (XREF), February 1987 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

The file contains the full reference (authors, titles, and citation) for references included in DATALOG, BIOLOG, and CHEMFATE. The references are linked to the other files by reference number. Each record contains a reference number (RNO) (6 bytes), a list of authors separated by semi-colons (AUT) (150 bytes), a title (TLE) (244 bytes), the journal or source (JRN) (200 bytes), the citation (CIT) (200 bytes), and the year (YRP) (19nn or blank if not applicable) (4 bytes).

Descriptors: *Data file; Magnetic tapes

Identifiers: *Bibliographic data elements; Bibliographic information; CHEMFATE database; NTISEPAOTS

PB87-186532/XAB

Environmental Fate Data Base (ENVIROFATE): Chemical Identification Information File (CHEMFATE), February 1987 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

CHEMFATE is a data value file containing literature-derived data on environmental fate of several hundred chemicals. The file includes chemical identification information, physical/chemical properties, transport and degradation studies, field investigations and monitoring data. In all there are 23 data types covered in the file. For each data type, there is a pertinent set of fields qualifying the data, but a physical record only exists for those fields that contain data. Each physical record is made up of a CAS Registry No. (9 bytes), a record number (4 bytes), a data type code (2 bytes), a field type code (3 bytes) and data (240 bytes). With the exception of the identification field, each data type has a mandatory reference field which contains the reference number pointing to XREF, the full service file.

Descriptors: *Data file; *Chemical compounds; Magnetic tapes; Chemical properties; Degradation; Environmental effects; Pollution

Identifiers: CHEMFATE database; Monitoring; Environmental transport; NTISEPAOTS

PB87-200275/XAB

Toxicity of 3400 Chemicals to Fish (Part 1). Toxicity of 1085 Chemicals to Fish (Part 2) Environmental Protection Agency, Washington, DC. Office of Toxic Substances.

The document, containing data on the toxicity of chemicals to fish, is in two parts. Part 1 consists of a 1953 study by E.M. Wood, U.S. Fish and Wildlife Service, Kearneysville, West Virginia. Data are compiled on over 3400 Chemicals (mostly organic compounds) which were tested using trout, bluegill, yellow perch, and goldfish, at a 5 mg/L screening concentration. Those compounds producing toxicity at 5 mg/L were tested further at lower concentrations. Part 2 contains data developed during a 1954 study by E.H. Hollis and R.E. Lennon at the Kearneysville laboratory using the same fish toxicity screening test protocols. Parts 1 and 2 are published here for the first time. These documents were prepared at the National Fisheries Research Center, U.S. Fish and Wildlife Service Laboratory, La Crosse, Wisconsin, from original records. A preface has been prepared by R.L. Lipnick, Office of Toxic substances, EPA, reviewing the use of these data in the development of structure-activity relationships and quantitative structure-activity relationships.

Descriptors: *Hazardous materials; *Water pollution; *Toxicity; *Chemical compounds; Fishes

Identifiers: *Water pollution effects(Animals); NTISEPAOTS

PB87-202370/XAB

Gastrointestinal Chemical Absorption Database Supplement Tape, March 1987 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

The update brings the total coverage of the datafile to 4078 articles on the absorption, distribution, metabolism, and excretion of approximately 3000 chemicals for oral routes of administration in laboratory animals or in man. Both quantitative and qualitative studies are included. Extracted data fields include number of figures, CAS registry number, chemical name, chemical type, chemical characteristics, study purpose, organism class, species name, strain, test duration, and route/method. Articles were selected from a literature search of Chemical Abstracts from 1967 - April 1985.

Descriptors: *Data file; *Gastrointestinal system; *Absorption (Biology); Magnetic tapes; Digestive system; Metabolism; Excretion; Tissues (Biology); Laboratory animals; Humans; Distribution

Identifiers: CAS registry numbers; *Toxic substances; NTISEPAOTS

PB88-100367/XAB

Characterization of HRGC/MS Unidentified Peaks from the Analysis of Human Adipose Tissue. Volume 1. Technical Approach (Final rept. Jan 86-Jan 87) Midwest Research Inst., Kansas City, MO.

The National Human Adipose Tissue Survey (NHATS), administered by EPA's Office of Toxic Substances (OTS), is an ongoing chemical monitoring network designed to detect levels and prevalences of toxic substances in the adipose tissue of the general U.S. population. Adipose specimens collected in fiscal year 1982 were analyzed as composites for volatile and semivolatile organic compounds via High resolution gas chromatography/mass spectrometry (HRGC/MS) as part of a previous effort. The data files were then processed using a method developed to automatically identify unknown HRGC/MS peaks. The method consisted of automatic identification of unknown spectra via comparisons to reference mass spectra, transfer of the results of the identification step to a microcomputer, compilation of the data into a spreadsheet program and generation of compound identification tables from the spreadsheet. Application of the method to the adipose data resulted in the identification of volatile compounds from 18 separate chemical classes and semivolatiles from 29 chemical classes. Compound classes included saturated and unsaturated hydrocarbons, aldehydes, ketones, steroids, heterocyclic compounds, drugs, aliphatic and phthalate esters, phenols, halocarbons, and methyl-substituted organosiloxanes.

Descriptors: *Exposure; *Organic compounds; *Toxicity; Connective tissue; Chemical analysis; Sampling; Gas chromatography; Mass spectroscopy; Data collection; Computer applications; Tables (Data)

Identifiers: *National Human Adipose Tissue Survey; Adipose tissue; NTISEPAOTS

PB88-100375/XAB

Characterization of HRGC/MS Unidentified Peaks from the Analysis of Human Adipose Tissue. Volume 2. Appendices (Final rept. Jan 86-Jan 87) Midwest Research Inst., Kansas City, MO.

The National Human Adipose Tissue Survey (NHATS), administered by EPA's Office of Toxic Substances (OTS), is an ongoing chemical monitoring network designed to detect levels and prevalences of toxic substances in the adipose tissue of the general U.S. population. Adipose specimens collected in fiscal year 1982 were analyzed as composites for volatile and semivolatile organic compounds via (High Resolution Gas Chromatography/Mass Spectrometry) as part of a previous effort. The data files were then processed using a method developed to automatically identify unknown HRGC/PS peaks. The method consisted of automatic identification of unknown spectra via comparisons to reference mass spectra, transfer of the results of the identification step to a microcomputer, compilation of the data into a spreadsheet program and generation of compound identification tables from the spreadsheet. Application of the method to the adipose data resulted in the identification of volatile compounds from 18 separate chemical classes and semivolatiles from 29 chemical classes. Compound classes included saturated and unsaturated hydrocarbons, aldehydes, ketones, steroids, heterocyclic compounds,

drugs, aliphatic and phthalate esters, phenols, halocarbons, and methyl-substituted organosiloxanes.

Descriptors: *Exposure; *Organic compounds; *Toxicity; Connective tissue; Chemical analysis; Sampling; Gas chromatography; Mass spectroscopy; Data collection; Computer applications; Tables (Data)

Identifiers: *National Human Adipose Tissue Survey; Adipose tissue; NTISEPAOTS

PB88-101050/XAB

Guidelines for the Determination of Halogenated Dibenzo-p-Dioxins and Dibenzofurans in Commercial Products (Final rept. Mar 85-Jul 86)
Midwest Research Inst., Kansas City, MO.

The determination of halogenated dibenzo-p-dioxins (HDDs) and dibenzofurans (HDFs) in commercial products require specific and sensitive analytical procedures. The development of methods for the measurement of HDD and HDF in commercial products is complicated by the diverse range of matrices, the potentially large number of halogenated (specifically chloro, bromo, or bromo/chloro) HDD and HDF congeners and potential interference due to major components of the product matrices. The report provides: (1) a review of the literature pertaining to commercial product analyses for HDDs and HDFs; (2) detail on the total number of bromo, chloro, and bromo/chloro HDDs and HDFs; (3) a tentative scheme for the analysis of HDDs and HDFs in diverse matrices; and (4) guidelines for the high resolution gas chromatography/ mass spectrometry or electron capture detector analysis of commercial products for HDDs and HDFs. The guidelines specify a rigorous OA/QC program for the analysis of the commercial products.

Descriptors: *Hazardous materials; Guidelines; Mass spectroscopy; Halogen compounds; Furans; Chromatography; Sampling; Toxicology

Identifiers: *Toxic substances; HDDS (Halogenated dibenzo-p-dioxins); HDFs (Halogenated dibenzofurans); NTISEPAOTS

PB88-102918/XAB

Volatile Organic Compounds in Whole Blood--Determination by Heated Dynamic Headspace Purge and Trap Isotope Dilution GC/MS (Special rept. Nov 84-Aug 87)
Midwest Research Inst., Kansas City, MO.

The method described was developed for the determination of a selected list of 30 organic compounds in whole human blood. The method is a heated dynamic head-space purge and trap gas chromatographic method using mass spectrometry in the limited mass scan mode. A whole blood sample is diluted with organic free water and the mixture fortified with isotopically labeled compounds. The mixture is subsequently heated to 50 deg C while stirred and the volatile components are purged from the mixture and collected on an adsorbent trap. The volatile compounds are thermally desorbed from the trap onto a wide-bore fused silica capillary column. Detection of the compounds is accomplished using mass

spectrometry in the limited mass scan mode where only selected ions are scanned. Quantitation of the analytes is accomplished by using the specific ion responses from standards of the analytes and their corresponding labeled analogs or internal standards.

Descriptors: *Blood analysis; *Toxicology; Gas chromatography; Mass spectroscopy; Isotopes; Labeled substances; Dilution; Purging; Traps

Identifiers: *Volatile organic compounds; *Toxic substances; NTISEPAOTS

PB88-124086/XAB

Assessment of Airborne Exposure and Dermal Contact to Acrylamide during Chemical Grouting Operations (Final rept.) Midwest Research Inst., Kansas City, MO.

Acrylamide exposure may occur by inhalation, ingestion and skin absorption; Acrylamide is a neurotoxin and an irritant. The report details the results of field studies to assess airborne exposure and dermal contact to acrylamide during chemical grouting operations. Occupational exposures to acrylamide were characterized for sewer mainline, lateral line and manhole maintenance operations. The objective of the study was to collect exposure data based on observations and measurements to be used as an integral part of a quantitative risk assessment by the U.S. Environmental Protection Agency's Office of Toxic Substances.

Descriptors: *Acrylamide copolymers; *Air pollution; *Grouting; Risk; Exposure; Toxicity; Contamination; Hazardous materials

Identifiers: *Toxic substances; *Occupational safety and health; NTISEPAOTS

PB88-129556/XAB

Methods for Assessing Exposure to Chemical Substances. Volume 9. Methods for Estimating Releases of Chemical Substances Resulting from Transportation Accidents (Final rept.) Versar, Inc., Springfield, VA.

The report presents methods for calculating expected annual releases of manufactured chemicals resulting from transportation accidents. The scope of the report is limited to releases en route rather than leaks and other releases at transportation terminals. A step-by-step method of calculating annual quantity released per mode of transportation is presented, and sources and limitations of the supporting data are discussed in detail. The method is suitable for comparing estimates of annual releases of several chemicals or for comparing releases by various modes of transportation for one chemical. A statistical analysis of the Department of Transportation (DOT) HAZMAT data base is included as an appendix to the report.

Descriptors: *Leakage; *Hazardous materials; *Transportation; *Pollution; Accidents; Statistical analysis; Estimates; Periodic variations; Comparison; Exposure; Assessments; Waste disposal

Identifiers: *Chemical compounds; HAZMAT data base; NTISEPAOTS

PB88-193255/XAB

Chemicals Subject to Reporting Under the Emergency Planning and Community Right to Know Act (Title 3 of the Superfund Amendments and Reauthorization Act of 1986), January 1988 (for Microcomputers) (Data file) Environmental Protection Agency, Washington, DC. Office of Toxic Substances.

This is the disk based version of the Office of Toxic Substances' consolidated list of chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Title III is also known as the Emergency Planning and Community Right to Know Act. The document is a list of all chemicals subject to reporting under sections 302, 304, and 313 of Title III. The disk is designed to generate either a printout or a dbase III file from any IBM or IBM compatible system.

Descriptors: *Data file; Diskettes; Chemical compounds; Listings; Hazardous materials; Regulations

Identifiers: Superfund Amendments and Reauthorization Act of 1986; Emergency Planning and Community Right to Know Act; Superfund program; Toxic substances; H=IBM PB; L=DBASE III Plus; NTISEPAOTS

PB88-199526/XAB

Guidelines for the Determination of Halogenated Dibenzo-p-Dioxins and Dibenzofurans in Commercial Products (RE-ANNOUNCEMENT of PB88-101050) (Final rept. Mar 85-Jul 86) Midwest Research Inst., Kansas City, MO.

The determination of halogenated dibenzo-p-dioxins (HDDs) and dibenzofurans (HDFs) in commercial products require specific and sensitive analytical procedures. The development of methods for the measurement of HDD and HDF in commercial products is complicated by the diverse range of matrices, the potentially large number of halogenated (specifically chloro, bromo, or bromo/chloro) HDD and HDF congeners and potential interference due to major components of the product matrices. The report provides (1) a review of the literature pertaining to commercial product analyses for HDDs and HDFs, (2) detail on the total number of bromo, chloro, and bromo/chloro HDDs and HDFs, (3) a tentative scheme for the analysis of HDDs and HDFs in diverse matrices, and (4) guidelines for the high resolution gas chromatography/mass spectrometry or electron capture detector analysis of commercial products for HDDs and HDFs. The guidelines specify a rigorous QA/QC program for the analysis of the commercial products.

Descriptors: *Hazardous materials; Guidelines; Mass spectrometry; Halogen compounds; Furans; Chromatography; Sampling; Toxicology

Identifiers: *Toxic substances; HDDs(Halogenated dibenzo-p-dioxins); HDFs(Halogenated dibenzofurans); NTISEPAOTS

PB88-210380/XAB

Estimating Releases and Waste Treatment Efficiencies for the Toxic Chemical Release Inventory Form (Final rept.) PEI Associates, Inc., Cincinnati, OH.

The document provides an overview of methods for estimating releases of chemicals into the environment for facilities subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986. The methods include use of monitoring data, mass balance calculations, emission factors, and engineering judgement. Applicability of the various methods for particular process operations and environmental media are discussed, as well as example release calculations for each method. The document also discusses various waste treatment technologies and how to estimate treatment efficiency. The bibliography includes sources and availability of EPA air emission factor documents. Appendices include secondary wastewater treatment efficiencies for specific chemicals, fugitive emission factors for equipment leaks, storage tank emission equations, and some chemical/physical property data for the Section 313 listed chemicals.

Descriptors: *Waste treatment; *Air pollution control; Waste water; Concentration (Composition); Sources

Identifiers: *Toxic substances; *Water pollution control; Liquid wastes; Solid wastes; NTISEPAOTS

PB88-210422/XAB

Chlorinated Paraffins: A Report on the Findings from Two Field Studies, Sugar Creek, Ohio, Tinkers Creek, Ohio. Volume 1. Technical Report (Final rept. 1986-87) Midwest Research Inst., Kansas City, MO.

The report presents the results of two field studies conducted in 1986 by the Environmental Protection Agency's Office of Toxic Substances (EPA/OTS) under the existing chemicals program to screen selected waterbodies for the presence of chlorinated paraffins. Chlorinated paraffins are saturated straight-chain hydrocarbons ranging from 10 to 30 carbons in length and containing 20 to 70 percent chlorine by weight. The information gained from these field studies will be coupled with that from other environmental hazard and environmental exposure studies and collectively contribute to an EPA risk assessment for this chemical. The report also develops an analytical method for chlorinated paraffins in different environmental matrices and includes a rigorous statistical analysis of the data used to validate the method.

Descriptors: *Chlorinated hydrocarbons; *Paraffins; *Water pollution sampling; Sampling; Hydrocarbons; Water pollution; Toxic substances; Risk; Environmental monitoring; Environmental models; Statistical analysis

Identifiers: *Chlorinated paraffin; NTISEPAOTS

PB88-210430/XAB

Chlorinated Paraffins: A Report on the Findings from Two Field Studies, Sugar Creek, Ohio, Tinkers Creek, Ohio. Volume 2. Appendix D, The Quality Assurance Project Plan (Final rept. 1986-87) Midwest Research Inst., Kansas City, MO.

The report presents the results of two field studies conducted in 1986 by the Environmental Protection Agency's Office of Toxic Substances (EPA/OTS) under the existing chemicals program to screen selected waterbodies for the presence of chlorinated paraffins. Chlorinated paraffins are saturated straight-chain hydrocarbons ranging from 10 to 30 carbons in length and containing 20 to 70 percent chlorine by weight. The information gained from these field studies will be coupled with that from other environmental hazard and environmental exposure studies and collectively contribute to an EPA risk assessment for this chemical. The report also develops an analytical method for chlorinated paraffins in different environmental matrices and includes a rigorous statistical analysis of the data used to validate the method.

Descriptors: *Chlorinated hydrocarbons; *Paraffins; *Water pollution sampling; Hydrocarbons; Water pollution; Toxic substances; Risk; Environmental monitoring; Environmental models; Statistical analysis

Identifiers: *Chlorinated paraffin; NTISEPAOTS

PB88-229547/XAB

Preliminary Experiments in a Research House to Investigate Contaminant Migration in Indoor Air (Final rept.) Geomet Technologies, Inc., Germantown, MD.

Controlled experiments were performed in an unoccupied research house to provide (1) a detailed characterization of the migration patterns of contaminants released indoors from consumer products and (2) a basis for assessment of the exposure implications of contaminant migration and the accuracy of currently used exposure assessment models. To enable relatively detailed spatial and temporal monitoring with readily available instrumentation, carbon monoxide (CO) was chosen as a surrogate contaminant for the investigation. Within an hour after the release was terminated, concentrations approached spatial uniformity even though a central air circulation fan that would have promoted contaminant migration was turned off as part of the experimental design. A single-chamber indoor air quality model provided closer approximation of passive than active exposures. Use of a two-chamber model resulted in better estimates of each type of exposure.

Descriptors: *Air pollution; *Carbon monoxide; *Houses; Residential buildings; Gas flow; Exposure; Contaminants

Identifiers: *Indoor air pollution; *Path of pollutants; NTISEPAOTS

PB88-230909/XAB

Assessing Asbestos Exposure in Public Buildings, Battelle Columbus Div., Washington, DC.

Airborne asbestos levels were measured by direct transmission electron microscopy in 49 public buildings from three categories: (1) buildings without asbestos-containing material (ACM); (2) buildings with all or most of the ACM in good condition allowing for a limited number of areas of moderate damage; and (3) buildings which had at least one area of significantly damaged ACM or numerous areas of moderate damage. Although the absolute airborne asbestos levels were very low, Category (3) had the highest median levels followed by Category (2), Category (1), and outdoors. Category (3) levels were significantly higher than Category (1). Another objective was to field test an assessment method for ACM developed facilitate abatement decision making in the context of an asbestos management program. Using rate consistency as an evaluation criterion, the three factors showed promise as assessment tools for use in the field. Each factor showed statistically significant consistency among raters.

Descriptors: *Air pollution control; *Asbestos; *Public buildings; *Standards; *Exposure

Identifiers: *Indoor air pollution; *Toxic substances; *Environmental monitoring; Risk assessment; NTISEPAOTS

PB88-245188/XAB

Gastrointestinal Chemical Absorption Data Base, 1985-1987 (Data file) Environmental Protection Agency, Washington, DC. Office of Toxic Substances.

The update for 1985-1987 covers 863 articles on the absorption, distribution, metabolism, and excretion of chemicals for oral routes of administration in laboratory animals or in humans. Quantitative and qualitative studies are included. Extracted data fields include number of figures, CAS registry number, chemical name, chemical type, chemical characteristics, study purpose, organism class, species name, strain, test duration, and route/method. Articles were selected from a literature search of Chemical Abstracts from May 1985 - December 1987. A correction file to previous data is also included in the tape. The update brings the total datafile to 4941 articles and approximately 3000 chemicals for the period 1967-1987.

Descriptors: *Data file; *Gastrointestinal system; *Chemical compounds; Metabolism; Digestive system; Humans; Laboratory animals; Magnetic tapes

Identifiers: *Intestinal absorption; Tissue distribution; Biological availability; NTISEPAOTS

PB88-912900/XAB

Toxic Substances Control Act (TSCA) Test Submissions Database (TSCATS) - Comprehensive Update Tape (Data file) Environmental Protection Agency, Washington, DC. Office of Toxic Substances.

The Toxic Substances Control Act Test Submissions Database (TSCATS) was developed to make unpublished test data available to the public. The test data is submitted to the US Environmental Protection Agency by industry under the Toxic Substances Control Act. Test is broadly defined to include case reports, episodic incidents, such as spills, and formal test study presentations. The database allows searching of test submissions according to specific chemical identity or type of study when used with an appropriate search retrieval software program. Studies are indexed under three broad subject areas: health effects, environmental effects and environmental fate. Additional controlled vocabulary terms are assigned which describe the experimental protocol and test observations. Records identify reference information needed to locate the source document, as well as the submitting organization and reason for submission of the test data. TSCATS on magnetic is updated quarterly in March, June, September and December each year. Each update is a complete restatement of the entire database.

Descriptors: *Data file; *Hazardous materials; Tests; Magnetic tapes

Identifiers: *Toxic Substances Control Act; *TSCA test submissions data base; *TSCATS data base; *Chemical spills; US Environmental Protection Agency; Industry; Hazardous materials spills; Environmental effects; Public health; NTISEPAOTS

PB89-100226/XAB

Effectiveness of Local Exhaust Ventilation for Drum Filling Operations (Final rept.) PEI Associates, Inc., Cincinnati, OH.

The effectiveness of Local Exhaust Ventilation (LEV) in capturing vapors generated was evaluated using a drum-filling operation as an example. The experiment consisted of measuring the effectiveness of three LEV systems (a canopy hood, a slot hood, and a lay-on hood). It was found that when operated at the ACGIH design flow rates, the hoods were highly effective in capturing emissions from drum-filling operation. Capture efficiencies for canopy hoods ranged from 93 to 100 percent based on total emission from the drum; for the slot hood and the lay-on hood capture efficiencies were determined to be 95 to 100 percent and 100 percent, respectively. In general, it was found the efficiency of an LEV system for a drum-filling operation is independent of the concentration of emission leaving the drum. The drum fill rate, which determines emission velocity at the drum bung hole, has been shown to affect LEV efficiency for the slot hood used in the study.

Descriptors: *Exhaust hoods; Chemical industry; Drums (Containers); Ventilation; Air pollution control equipment; Air pollution abatement

Identifiers: Volatile organic compounds (VOC); Pollution control; *Occupational safety and health; NTISEPAOTS

PB89-116115/XAB

Environmental Fate Data Base (ENVIROFATE): Value Biodegradation File (BIODEG), June 1988 (Data file) Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

BIODEG is a data value file containing literature-derived data on the biodegradation of over 500 chemicals. There are five different types of records; four record types that cover different types of tests: (screening studies, biological treatment simulations, grab samples, and field studies) and one summary record that contains summary evaluation codes. A more detailed discussion of the file is available in P.H. Howard, et al, Environ. Toxicology Chem. 6:1-10 (1987).

Descriptors: *Data file; *Biodeterioration; Chemical elements; *Chemical compounds; Tests; Magnetic tapes

Identifiers: NTISEPAOTS

PB89-120489/XAB

Toxic Substances Control Act (TSCA) Chemical Substances Inventory: Reissued Inventory Synonym and Preferred Name File, April 1988 (Data file) Environmental Protection Agency, Washington, DC. Information Management and Services Div.

The Toxic Substance Act Chemical Substances Inventory: Reissued Inventory lists names and more than 50,000 Chemical Substances. The computer-readable TSCA Chemical Substance Inventory - 1985 Edition and its subsequent computer-readable supplements or cumulative reissues contain chemical substance information for those substances on the non-confidential substance identity portion of the TSCA Master Inventory File. For a complete understanding of the data contained on these tapes, it is necessary to consult the introductory material of the printed 1985 Edition. The revised inventory consists of two files: (1) Inventory Preferred Name File (EPA-560/7-88-005a); (2) Inventory Synonym Name File (EPA-560/7-88-005b). This is the first file which contains each substance with its CAS Registry Number, preferred CA Index Name, molecular formula, and other appropriate information. The entries are in ascending CAS Registry Number order.

Descriptors: *Chemical compounds; *Environmental surveys; Inventories; Chemical industry; Manufacturing

Identifiers: *Toxic Substances Control Act; NTISEPAOTS

PB89-133649/XAB

Superfund Amendments and Reauthorization Act (SARA): Section 313 Roadmaps Data Base User's Manual (Final rept) DISKETT PB89-133631 ICF, Inc., Fairfax, VA.

EPA has developed a database of sources of information on the chemicals listed in section 313 of the Superfund Amendments and Reauthorization Act (SARA). The database is intended to assist users of section 313 Toxic Release Inventory data to perform exposure and risk assessments of these chemicals. The Roadmaps system displays and/or prints information for the SARA section 313 chemicals on health and environmental effects, Federal regulations, and state air and water regulations, monitoring data, and state contacts.

Descriptors: *Toxicology; Exposure; Risk; Regulations; Documentation

Identifiers: *Toxic substances; *Superfund Amendments and Reauthorization Act; *Section 313 chemicals; Air pollution effects (Humans); Environmental health; Water pollution effects; Pollution regulations; NTISEPAOTS