EPA-450/5-86-007

NATIONAL AIR TOXICS INFORMATION CLEARINGHOUSE

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

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

Ongoing Research and Regulatory Development Projects

June 1986

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NATIONAL AIR TOXICS INFORMATION CLEARINGHOUSE: ONGOING RESEARCH AND REGULATORY DEVELOPMENT PROJECTS

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PREFACE

The EPA has focused most of its past efforts in the control of air toxics on the Clean Air Act (CAA) Section 112 National Emission Standards for Hazardous Air Pollutants (NESHAP) program. The Agency has undertaken measures that will accelerate the standards setting process in order to more rapidly reduce the risks resulting from exposure to air toxics. Yet there is still pressure for information and action on the control of air toxics being brought to bear by the public, who are concerned over continuing exposure to potentially toxic air pollutants. This public pressure has had an impact such that many State and local agencies have developed or are now actively developing regulatory programs that complement Federal activities.

In addition to accelerating Section 112 Federal standards setting, EPA is also supporting State and local air toxics control efforts. In response to State and local agency requests for assistance in information exchange, EPA has designed and is implementing an information dissemination center, known as the National Air Toxics Information Clearinghouse. It has been designed and is being implemented in close coordination with the State and Territorial Air Pollution Program Administrators (STAPPA) and the Association of Local Air Pollution Control Officials (ALAPCO).

The purpose of this document, published by the National Air Toxics Information Clearinghouse, is to inform State and local policy makers of current research and regulatory development projects underway at EPA and the National Institute of Occupational Safety and Health (NIOSH), and to help them identify sources of specific air toxics information. Every effort has been made to ensure accuracy as of March 1986, the date that compilation of information was completed. However, agency policies, priorities, and funding levels reflected by the projects listed in this document may change affecting estimated project completion dates and whether or not regulatory actions are finally taken.

This document is an update of the second National Air Toxics Information Clearinghouse ongoing research document, which was published in March 1985. The Clearinghouse currently plans to update this document on a regular basis. Other documents published by the Clearinghouse include:

- National Air Toxics Information Clearinghouse: Rationale for Air Toxics Control in Seven State and Local Agencies, EPA-450/5-86-005, NTIS: PB86 181179/AS, August 1985;
- National Air Toxics Information Clearinghouse: NATICH Data Base Report on State and Local Agency Air Toxics Activities, EPA-450/5-86-006, September 1985;
- National Air Toxics Information Clearinghouse: NATICH Data Base Users Guide for Data Viewing, EPA-450/5-85-008, NTIS: PB86 123601/AS, September 1985.
- National Air Toxics Information Clearinghouse: Bibliography of Selected Reports and Federal Register Notices Related to Air Toxics, EPA-450/5-86-003, NTIS: PB86 183456/AS. July 1986; and
- National Air Toxics Information Clearinghouse Newsletter, December 1983, February 1984, April 1984, July 1984, September 1984, December 1984, February 1985, May 1985, August 1985, December 1985, March 1986, and June 1986.

ABSTRACT

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

The document is divided into three parts and an appendix. The first part lists 250 air toxics projects currently in progress at EPA and NIOSH. A brief description of each project and a contact name and office are given. The second part of the document contains the index that allows readers to locate projects of interest. Projects are indexed by project type, chemical name, CAS number, and air pollution source type. The third part lists other published sources of information on current Federal government toxics research. The appendix lists regulatory development projects on toxic chemicals underway at the EPA's Office of Drinking Water (ODW). While most of these projects are not directly related to air problems, health information on toxic chemicals from ODW projects may be of interest to Clearinghouse users.

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INTRODUCTION

This list of ongoing research and regulatory development activities has been compiled by the National Air Toxics Information Clearinghouse as one of several tools designed to facilitate information exchange on air toxics. A total of 250 ongoing projects concerning noncriteria pollutants which have been funded by the U. S. Environmental Protection Agency (EPA) and the National Institute for Occupational Safety and Health (NIOSH) are listed. The EPA or NIOSH office and a contact name are provided for each project. To facilitate use of this document, the projects are indexed by project type, chemical name, Chemical Abstracts Services (CAS) registry number, and air pollution source type.

This document is designed to help State and local agency Clearinghouse users identify sources of information for specific air toxics questions or problems. It is an updated version of the March 1985 Clearinghouse "Ongoing Research and Regulatory Development Projects" document. The list of projects contained in this document focuses on studies which have not yet resulted in publicly available reports. The list indicates when the work is scheduled for completion as well as a contact person who can provide study details. In future updates of this document, new projects will be added, and the dates and names previously provided will be updated as required. Projects which have been completed since the last edition have been removed. Some of these projects resulted in published reports which are listed in the July 1986 Clearinghouse publication "Bibliography of Selected Reports and Federal Register Notices Related to Air Toxics."

DOCUMENT SCOPE

Twelve types of projects which are considered to be of greatest interest to agencies concerned with the regulation of noncriteria air pollutants are included in this compilation. Both basic scientific research and studies conducted to assess the need for regulations and/or to support

regulations development have been included. Federal regulations may or may not be developed for sources and/or pollutants covered by these projects. The 12 categories of projects are briefly defined below.

1. CHIPs - Chemical Hazard Information Profiles - In these studies, EPA's Office of Toxic Substances (OTS) compiles preliminary information about sources, environmental distribution, exposure and health effects of specific chemicals.
2. Emission Factor Documents - Primarily funded by the Monitoring and Data Analysis Division, Office of Air Quality Planning and Standards (OAQPS), these projects examine the sources and emissions of specific pollutants.
3. Epidemiology - NIOSH-funded epidemiology studies on noncriteria air pollutants.
4. Exposure Assessments - EPA-funded projects to estimate the population exposed to ambient concentrations of specific chemicals.
5. Health Assessments - Projects funded by EPA's Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office to compile information on health effects of specific chemicals.
6. Monitoring, Sampling, and Analysis - Projects funded by EPA laboratories to develop methodologies for monitoring and sampling hazardous air pollutants.
7. NESHAP - OAQPS projects to develop background information documents (BID) to support National Emission Standards for Hazardous Air Pollutants (NESHAP) under Section 112 of the Clean Air Act. These documents contain the following types of information: a description of the affected industry or air pollution source including emissions data and applicable control technology; an analysis of regulatory alternatives in terms of potential environmental, economic, and energy impacts; and a health appendix including an exposure assessment and a risk assessment.

8. NSPS - 111(d) - OAQPS projects to prepare background information documents to support new source performance standards (NSPS) for sources of certain hazardous air pollutants under Section 111(d) of the Clean Air Act. These documents include the following types of information: a description of the affected industry or air pollution source including emissions data and applicable control technology, and an analysis of regulatory alternatives in terms of potential environmental, economic, and energy impacts.

9. Pre-Regulatory Assessments - Projects funded by the Pollutant Assessment Branch of OAQPS which include reviewing the health effects, sources, emissions to the ambient air, and potential for public exposure to specific pollutants in order to decide whether these pollutants should be regulated under the Clean Air Act.

10. Risk Assessments - Projects funded by EPA's Office of Health and Environmental Assessment and EPA research laboratories to estimate human risks from hazardous air pollutants.

11. Source Assessments - EPA projects to identify and quantify emissions from specific source categories and to evaluate applicable control technologies.

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

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

- Office of Air Quality Planning and Standards,
- Office of Health and Environmental Assessment,
- Office of Pesticides and Toxic Substances,
- Office of Solid Waste and Emergency Response,
- Office of Research and Development, and
- Regional Offices for all 10 Regions.

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

Several compilations of ongoing research and regulatory development projects on potentially toxic chemicals (not necessarily air pollutants) have been identified in Part 3 of this document. These sources can be used to supplement this compilation.

USING THIS DOCUMENT

This document has been divided into three parts and an appendix. Part 1 contains individual entries for 250 ongoing research and regulatory development projects. The entries are listed by the organization conducting the work in the following order:

- EPA Offices,
- EPA Laboratories,
- EPA Regional Offices, and
- NIOSH.

Project entries are numbered sequentially throughout Part 1, beginning with the prefix CL-BIB. Each entry generally contains the following elements:

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

CAS number, chemical name, and source may not be applicable to all entries. For example, projects which deal with groups of chemicals such as "organic compounds" or "heavy metals" rather than specific pollutants cannot be assigned CAS numbers. Several special Clearinghouse acronyms prefaced with "CL- " have been assigned to groups of common pollutant types where no CAS number was applicable. The list of Clearinghouse chemical acronyms is shown in Table 1. In a few cases, the term "various" has been used where pollutants that are emitted are so numerous that even Clearinghouse numbers could not be assigned. In some projects dealing with specific source categories, lists of chemicals emitted are not yet available, so "various" has been used under Chemical Name. Other chemical-specific projects may not deal with specific air pollution sources. In these cases, the Air Pollution Source element of the entry has been omitted. Wherever possible, an effort has been made to list the specific chemical name(s), CAS registry number(s), and/or source type(s) for each project. Table 2 gives examples of sample entries.

If a project clearly falls into 1 of the 12 categories listed above, only that one project type is listed in the entry. While there is often overlap between the kinds of information included in these categories, the project type identified reflects the primary emphasis of the project. Where it was difficult to select the single most appropriate project type, more than one is listed.

TABLE 1

Clearinghouse CAS #	Pollutant
CL-ACID	Acidic Compounds
CL-ALDEHYD	Aldehydes
CL-AMINE	Amines
CL-CAH	Chlorinated Aliphatic Hydrocarbons
CL-CARCIN	Carcinogens
CL-CL	Chlorides
CL-COE	Coke Oven Emissions
CL-CREOSOL	Creosols
CL-DGAEA	Diethylene gycol alkyl ethers and acetates
CL-DIESEL	Diesel fuel emissions
CL-DIOXIN	Dioxins
CL-FUELOIL	Waste derived fuel oil
CL-GYPSUM	Gypsum
CL-HAZWAST	Hazardous Wastes
CL-IAP	Indoor Air Pollutants
CL-INORGAN	Inorganic Compounds
CL-METAL	Metallic Compounds
CL-MINDUST	Mineral Dusts
CL-MS	Mineral Spirits
CL-NAMINE	Nitrosamines
CL-NDI	Naphthalene diisocyanate
CL-NITRATE	Nitrates
CL-OH	Hydroxide
CL-ORGANIC	Organic Compounds
CL-PCB	Polychlorinated biphenols
CL-PEST	Pesticides
CL-PHENAZO	Phenazopyridine Chloride
CL-PHOSPHA	Phosphates
CL-PHOS	Tributyl phosphine, Triisopropyl phosphine
CL-PM	Particulate Matter
CL-PNA	Polynuclear aromatics
CL-POM	Polycyclic Organic Matter
CL-RAD	Radiation
CL-RESIN	Resins
CL-SALTS	Salts
CL-SEWSLUD	Sewage Sludge
CL-SOLVENT	Solvents
CL-SULFATE	Sulfates
CL-SULFIDE	Sulfides
CL-SULFITE	Sulfite
CL-TIN	Triethyl tin, Trimethyl tin
CL-TRS	Total Reduced Sulfur
CL-VEG	Vegetable Oil Mists
CL-VOC	Volatile Organic Compounds
CL-WELD	Welding Fumes
CL-WOOD	Wood Smoke

TABLE 2. SAMPLE ENTRIES

CL-BIB-0040

TITLE:	Decision on Regulation of Formaldehyde Under the Clean Air Act
STATUS:	In Progress 1986
CONTACT:	OAQPS/SASD/PAB, N. Pate
CAS NO:	50-00-00
CHEMICAL:	Formaldehyde
PROJECT TYPE:	Pre-Regulatory Assessment

CL-BIB-0194

TITLE:	Prospective Cohort and Industrial Hygiene Study of Mild Steel Welders
STATUS:	Started 10/83; Complete 10/91
CONTECT:	NIOSH/DRDS/ENIB, P. Hewett
CAS NO:	CL-WELD
CHEMICAL:	Welding Fumes
SOURCE:	Welding; Steel Industry
PROJECT TYPE:	Epidemiology

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

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

Part 2 of the document consists of the index. The index is organized alphabetically and each project is indexed by project type, CAS number, chemical name, source type, and the agency conducting the work. These indices allow users to locate projects pertaining to a specific chemical, source, or type of information. For example, if information is desired on a specific chemical, it can be obtained by looking up the chemical name in the index or by looking up the CAS Number for that chemical. Numerical entries are located after the alphabetic entries. Under the chemical name will be a list of titles and Bibliography numbers. Using this information one can look up the projects in Part 1 of this document. Similarly this process can be done for various source types. For example, if information on projects related to steel mining, or the chemical industry was desired, a listing could be found alphabetically in the index under each of these categories. If an entry contains more than one project type, it is listed in the index under each applicable project type. Only those chemical names, CAS numbers, and sources used in the 250 project descriptions are found in the index.

The final part of the document, Part 3, lists other published sources of information on ongoing air toxics research giving abstracts of these publications and ordering information. It was impossible to include all potentially useful toxicology projects in this report due to space limitations, however, the National Toxicology Program (NTP) publishes lists

of toxicology research projects underway at EPA, the Department of Health and Human Services, and the Department of Energy. The EPA Chemical Activities Status Report and the Manager's Guide to EPA Activities on Toxic and Hazardous Chemicals, also published periodically, list ongoing EPA projects on specific chemicals, including research and regulation under water, air, solid waste, and toxic substances legislation.

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

KEY TO ABBREVIATIONS USED IN THIS DOCUMENT

Abbreviation			Name	Telephone
Office	Division	Branch		
1. Environmental Protection Agency (EPA) Offices				
OAQPS/			Office Air Quality Planning and Standards, Research Triangle Park, NC	
	ESED/		Emission Standards and Engineering Division	(919) 541-5571
		SDB	Standards Development Branch	(919) 541-5578
		CPB	Chemicals and Petroleum Branch	(919) 541-5671
		ISB	Industrial Studies Branch	(919) 541-5671
	MDAD/		Monitoring and Data Analysis Division	(919) 541-5536
		AMTB	Air Management Technology Branch	(919) 541-5586
	RPO		Regional Programs Office	(919) 541-5555
	SASD/		Strategies and Air Standards Division	(919) 541-5504
		PAB	Pollutant Assessment Branch	(919) 541-5645
OERR/			Office of Emergency, and Remedial Response, Washington, DC	(202) 382-2180
	HSC		Hazardous Site Control	(202) 382-4485
OHEA/			Office of Health and Environmental Assessment, Washington, DC	(202) 382-7317
	CAG		Carcinogen Assessment Group	(202) 382-5952
	ECAO-RTP		Environmental Criteria and Assessment Office, Research Triangle Park, NC	(919) 541-4173

KEY TO ABBREVIATIONS USED IN THIS DOCUMENT (Continued)

Abbreviation				
Office	Division	Branch	Name	Telephone
	ECAO-Ci		Environmental Criteria and Assessment Office, Cincinnati, OH	(513) 684-7531
	EAG		Exposure Assessment Group	(202) 475-8922
	REAG		Reproductive Effects Assessment Group	(202) 382-7336
OTS/			Office of Toxic Substances, Washington, DC	
	A/		Assessment Division	(202) 382-3790
		CSB	Chemical Screening Branch	(202) 382-3507
		RAB	Risk Analysis Branch	(202) 382-3832
ORP/			Office of Radiation Programs, Washington, DC	(202) 382-3832
	CSD/		Criteria and Standards Division	(202) 557-0704
		ESB	Environmental Standards Branch	(202) 557-8977
ORD/			Office of Research and Development, Washington, DC	
	OHR		Office of Health Research	(202) 382-5900
	EMSL-RTP		Environmental Monitoring and Support Laboratory, Research Triangle Park, NC	(919) 541-2106
	ASRL-RTP		Atmospheric Sciences Research Laboratory, Research Triangle Park, NC	(919) 541-2191
	HERL-RTP		Health Effects Research Laboratory, Research Triangle Park, NC	(919) 541-2281

KEY TO ABBREVIATIONS USED IN THIS DOCUMENT (Continued)

Abbreviation			Name	Telephone
Office	Division	Branch		
	AEERL-RTP		Air and Energy Engineering Research Laboratory, Research Triangle Park, NC	(919) 541-2821
	HWERL-Ci		Hazardous Waste Engineering Research Laboratory, Cincinnati, OH	(513) 569-7519
	HWERL-Edi		Hazardous Waste Engineering Research Laboratory, Edison, NJ	(201) 321-6635
	Kerr Lab		EPA/Kerr Laboratory, Ada, OK	(405) 332-8800
Reg/			Regional Offices	
	Reg. I		Region I, Air Management Division, Boston, MA	(617) 223-2226
	Reg. II		Region II, Air and Waste Management Division, New York, NY	(212) 264-2517
	Reg. III		Region III, Air Management Division, Philadelphia, PA	(215) 597-9800
	Reg. IV		Region IV, Air Management Division, Atlanta, GA	(404) 347-2864
	Reg. V		Region V, Air Management Division, Chicago, IL	(312) 353-6009
	Reg. VI		Region VI, Air and Waste Management Division, Dallas, TX	(214) 767-9187
	Reg. VII		Region VII, Air and Toxics Division, Kansas City, KS	(913) 236-2893
	Reg. VIII		Region VIII, Air and Toxics Division, Denver, CO	(303) 293-1761
	Reg. IX		Region IX, Air Management Division, San Francisco, CA	(415) 974-7109

KEY TO ABBREVIATIONS USED IN THIS DOCUMENT (Continued)

Abbreviation			Name	Telephone
Office	Division	Branch		
	Reg. X		Region X, Air and Toxics Division, Seattle, WA	(206) 442-1757
2. National Institute for Occupational Safety and Health (NIOSH) Offices				
	DBBS/		Division of Biomedical and Behavioral Sciences, Cincinnati, OH	(513) 533-8465
		ABPB	Applied Biology and Physics	(513) 533-8383
		APEB	Applied Physiology and Ergonomics Branch	(513) 533-8383
		ETB	Experimental Toxicology Branch	(513) 533-8392
		TSB	Technical Support Branch	(513) 533-8433
	DRDS/		Division of Respiratory Disease Studies, Morgantown, WV	(304) 291-4474
		LIB	Laboratory Investigations Branch	(304) 291-4474
		CIB	Clinical Investigations Branch	(304) 291-4223
		ENIB	Environmental Investigations Branch	(304) 291-4474
		EPIB	Epidemiology Investigations Branch	(304) 291-4476
	DSHEFS/		Division of Surveillance, Hazard Evaluations, and Field Studies, Cincinnati, OH	(513) 841-8235
		IWSB	Industry Wide Studies Branch	(513) 841-4203
		SB	Surveillance Branch	(513) 841-4303

Part 1: LIST OF ONGOING PROJECTS

CL-BIB-0001
TITLE: Process Sampling and Emission Model Development for Hazardous Waste Treatment, Storage, and Disposal Facility Area Source Air Emissions
STATUS: In Progress FY 86
CONTACT: OAQPS/ESED/CPB, K. Hustvedt
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Monitoring, Sampling, and Analysis; Source Assessment

CL-BIB-0002
TITLE: 1,3-Butadiene NESHAP
STATUS: Proposal FY 88
CONTACT: OAQPS/ESED/CPB, B. Rosensteel
CAS NO: 106-99-0
CHEMICAL: 1,3-BUTADIENE
PROJECT TYPE: NESHAP

CL-BIB-0003
TITLE: Carbon Tetrachloride NESHAP
STATUS: Proposal FY 88
CONTACT: OAQPS/ESED/CPB, B. Rosensteel
CAS NO: 56-23-5
CHEMICAL: CARBON TETRACHLORIDE
PROJECT TYPE: NESHAP

CL-BIB-0004
TITLE: Chloroform NESHAP
STATUS: Proposal FY 88
CONTACT: OAQPS/ESED/CPB, B. Rosensteel
CAS NO: 67-66-3
CHEMICAL: CHLOROFORM
PROJECT TYPE: NESHAP

CL-BIB-0005
TITLE: Ethylene Dichloride NESHAP
STATUS: Proposal FY 88
CONTACT: OAQPS/ESED/CPB, B. Rosensteel
CAS NO: 107-06-2
CHEMICAL: ETHYLENE DICHLORIDE
PROJECT TYPE: NESHAP

CL-BIB-0006
TITLE: Ethylene Oxide NESHAP
STATUS: Proposal FY 88
CONTACT: OAQPS/ESED/CPB, B. Rosensteel
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
PROJECT TYPE: NESHAP

CL-BIB-0007
TITLE: Methylene Chloride NESHAP
STATUS: Proposal FY 88
CONTACT: OAQPS/ESED/CPB, B. Rosensteel
CAS NO: 75-09-2
CHEMICAL: METHYLENE CHLORIDE
PROJECT TYPE: NESHAP

CL-BIB-0008
TITLE: Perchloroethylene NESHAP
STATUS: Proposal FY 88
CONTACT: OAQPS/ESED/CPB, B. Rosensteel
CAS NO: 127-18-4
CHEMICAL: PERCHLOROETHYLENE
PROJECT TYPE: NESHAP

CL-BIB-0009
TITLE: Trichloroethylene NESHAP
STATUS: Proposal FY 88
CONTACT: OAQPS/ESED/CPB, B. Rosensteel
CAS NO: 79-01-6
CHEMICAL: TRICHLOROETHYLENE
PROJECT TYPE: NESHAP

CL-BIB-0010
TITLE: Cadmium NESHAP
STATUS: Proposal FY 88
CONTACT: OAQPS/ESED/ISB, J. Crowder
CAS NO: 7440-43-9
CHEMICAL: CADMIUM
PROJECT TYPE: NESHAP

CL-BIB-0011
TITLE: Coke Ovens/Byproduct Plants (Benzene) NESHAP
STATUS: Proposed 6/6/84; Awaiting Promulgation
CONTACT: OAQPS/ESED/SDB, G. Wood
CAS NO: 71-43-2
CHEMICAL: BENZENE
SOURCE: Coke Ovens; Coke Byproduct Recovery Plants
PROJECT TYPE: NESHAP

CL-BIB-0012
TITLE: Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP
STATUS: Proposal FY 86
CONTACT: OAQPS/ESED/SDB, R. Ajax
CAS NO: CL-COE
CHEMICAL: COKE OVEN EMISSIONS
SOURCE: Coke Ovens, Wet-Coal Charged
PROJECT TYPE: NESHAP

CL-BIB-0013
TITLE: Vinyl Chloride NESHAP Revision
STATUS: Proposal 1/85, Ongoing
CONTACT: OAQPS/ESED/SDB, F. Dimmick
CAS NO: 75-01-4
CHEMICAL: VINYL CHLORIDE
SOURCE: Ethylene Dichloride-Vinyl Chloride Plants; Polyvinyl-Chloride Plants; Chemical Industry
PROJECT TYPE: NESHAP

CL-BIB-0014
TITLE: Organic Solvent Cleaning 111(D) NSPS
STATUS: Proposed 6/11/80; Amended 4/21/81; Awaiting Promulgation
CONTACT: OAQPS/ESED/SDB, F. Porter
CAS NO: CL-VOC; 127-18-4; 79-01-6; 71-55-6; 75-09-2; 76-13-1
CHEMICAL: VOC; Perchloroethylene; Trichloroethylene; 1,1,1-Trichloroethane; Methylene Chloride; Trichlorotrifluoroethane
SOURCE: Degreasing Operations; Organic Solvent Cleaners
PROJECT TYPE: NSPS-111(D)

CL-BIB-0015
TITLE: Glass Manufacturing (Arsenic) NESHAP
STATUS: Proposed 7/20/83; Awaiting Promulgation
CONTACT: OAQPS/ESED/SDB, L. Chaput
CAS NO: 7440-38-2
CHEMICAL: ARSENIC (INORGANIC)
SOURCE: Glass Manufacturing Plants
PROJECT TYPE: NESHAP

CL-BIB-0016
TITLE: High Arsenic Copper Smelters NESHAP
STATUS: Proposed 7/20/83; Awaiting Promulgation
CONTACT: OAQPS/ESED/SDB, L. Chaput
CAS NO: 7440-38-2
CHEMICAL: ARSENIC (INORGANIC)
SOURCE: Primary Copper Smelters; Smelters
PROJECT TYPE: NESHAP

CL-BIB-0017
TITLE: Low Arsenic Copper Smelters NESHAP
STATUS: Proposed 7/20/83; Awaiting Promulgation
CONTACT: OAQPS/ESED/SDB, L. Chaput
CAS NO: 7440-38-2
CHEMICAL: ARSENIC (INORGANIC)
SOURCE: Primary Copper Smelters; Smelters
PROJECT TYPE: NESHAP

CL-BIB-0018
TITLE: Asbestos NESHAP Revision
STATUS: Proposal FY 87
CONTACT: OAQPS/ESED/SDB, L. Chaput
CAS NO: 1332-21-4
CHEMICAL: ASBESTOS
SOURCE: Construction Industry; Demolition
PROJECT TYPE: NESHAP

CL-BIB-0019
TITLE: Mercury NESHAP Revision
STATUS: Proposal FY 85, Ongoing
CONTACT: OAQPS/ESED/SDB, G. Wood
CAS NO: 7439-97-6
CHEMICAL: MERCURY
SOURCE: Ore Processing; Chlor-Alkali Manufacturing; Chemical Industry
PROJECT TYPE: NESHAP

CL-BIB-0020
TITLE: Chromium NESHAP
STATUS: Proposal FY 87
CONTACT: OAQPS/ESED/SDB, J. Crowder
CAS NO: 7440-47-3
CHEMICAL: CHROMIUM
PROJECT TYPE: NESHAP

CL-BIB-0021
TITLE: Locating and Estimating Air Emissions From Sources of Ethylene Oxide
STATUS: In Progress 1986
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
PROJECT TYPE: Emission Factor Document; Source Assessment

CL-BIB-0022
TITLE: Locating and Estimating Air Emissions From Sources of Chlorobenzenes
STATUS: In Progress 1986
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
CAS NO: VARIOUS
CHEMICAL: CHLOROBENZENES
PROJECT TYPE: Emission Factor Document; Source Assessment

CL-BIB-0023
TITLE: Locating and Estimating Air Emissions From Sources of Polychlorinated Biphenyls (PCB)
STATUS: Publish FY 87
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
CAS NO: 1336-36-3; CL-PCB
CHEMICAL: POLYCHLORINATED BIPHENYLS (PCB)
PROJECT TYPE: Emission Factor Document; Source Assessment

CL-BIB-0024
TITLE: Locating and Estimating Air Emissions From Sources of Methylene Chloride
STATUS: Publish FY 87
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
CAS NO: 75-09-2
CHEMICAL: METHYLENE CHLORIDE
PROJECT TYPE: Emission Factor Document; Source Assessment

CL-BIB-0025
TITLE: Locating and Estimating Air Emissions From Sources of Perchloroethylene
STATUS: Publish FY 87
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
CAS NO: 127-18-4
CHEMICAL: PERCHLOROETHYLENE
PROJECT TYPE: Emission Factor Document; Source Assessment

CL-BIB-0026
TITLE: Locating and Estimating Air Emissions From Sources of Trichloroethylene
STATUS: Publish FY 87
CONTACT: OAQPS/MDAD/AMTB, T. Lahre
CAS NO: 79-01-6
CHEMICAL: TRICHLOROETHYLENE
PROJECT TYPE: Emission Factor Document; Source Assessment

CL-BIB-0027
TITLE: EPA-State Pilot Project For the Control of Acrylonitrile Emissions
STATUS: In Progress FY 86
CONTACT: OAQPS/RPO, F. Renner
CAS NO: 107-13-1
CHEMICAL: ACRYLONITRILE
PROJECT TYPE: Source Assessment; Risk Assessment

CL-BIB-0028
TITLE: Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments
STATUS: In Progress FY 86
CONTACT: OAQPS/SASD/PAB, D. Cleverly
CAS NO: 71-43-2
CHEMICAL: BENZENE; GASOLINE VAPORS
SOURCE: Gasoline Marketing
PROJECT TYPE: Exposure Assessment

CL-BIB-0029
TITLE: Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion
STATUS: In Progress FY 86
CONTACT: OAQPS/SASD/PAB, W. Peters
CAS NO: 7440-38-2; 7440-41-7; 7440-43-9; 7440-47-3; 7440-02-0; CL-METAL
CHEMICAL: ARSENIC; BERYLLIUM; CADMIUM; CHROMIUM; NICKEL; METALLIC COMPOUNDS
SOURCE: Combustion
PROJECT TYPE: Exposure Assessment

CL-BIB-0030
TITLE: Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities
STATUS: Complete FY 87
CONTACT: OAQPS/SASD/PAB, M. Dusetzina
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Exposure Assessment; Risk Assessment

CL-BIB-0031
TITLE: Decision on Regulation of Dioxins Under the Clean Air Act
STATUS: Decision FY 86
CONTACT: OAQPS/SASD/PAB, D. Cleverly
CAS NO: 1746-01-6; CL-DIOXIN
CHEMICAL: DIOXINS
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0033
TITLE: Decision on Regulation of Nickel Under the Clean Air Act
STATUS: Decision FY 86
CONTACT: OAQPS/SASD/PAB, M. Dusetzina
CAS NO: 7440-02-0
CHEMICAL: NICKEL
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0034
TITLE: Decision on Regulation of Acetaldehyde Under The Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, S. Voorhees
CAS NO: 75-07-0
CHEMICAL: ACETALDEHYDE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0035
TITLE: Decision on Regulation of Acrolein Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, B. Riddle
CAS NO: 107-02-8
CHEMICAL: ACROLEIN
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0036
TITLE: Decision on Regulation of Ammonia Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, M. Dusetzina
CAS NO: 7664-41-7
CHEMICAL: AMMONIA
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0037
TITLE: Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, T. Mohin
CAS NO: 7782-50-5; 7647-01-0
CHEMICAL: CHLORINE; HYDROCHLORIC ACID
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0038
TITLE: Decision on Regulation of Copper Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, B. Hassett
CAS NO: 7440-50-8
CHEMICAL: COPPER
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0039
TITLE: Decision on Regulation of Dibenzofurans Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, D. Cleverly
CAS NO: VARIOUS
CHEMICAL: DIBENZOFURANS
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0040
TITLE: Decision on Regulation of Formaldehyde Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, N. Pate
CAS NO: 50-00-0
CHEMICAL: FORMALDEHYDE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0041
TITLE: Decision on Regulation of Gasoline Vapors Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, D. Cleverly
CAS NO: VARIOUS
CHEMICAL: GASOLINE VAPORS
PROJECT TYPE: Pre-Regularoty Assessment

CL-BIB-0042
TITLE: Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, S. Voorhees
CAS NO: 7783-06-4
CHEMICAL: HYDROGEN SULFIDE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0043
TITLE: Decision on Regulation of Mineral Fibers Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, B. Riddle
CAS NO: VARIOUS
CHEMICAL: MINERAL FIBERS
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0044
TITLE: Decision on Regulation of Naphthalene Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, F. Kirwan
CAS NO: 91-20-3
CHEMICAL: NAPHTHALENE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0045
TITLE: Decision on Regulation of Phenol Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, W. Peters
CAS NO: 108-95-2
CHEMICAL: PHENOL
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0046
TITLE: Decision on Regulation of Phosgene Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, J. Vandenberg
CAS NO: 73-44-5
CHEMICAL: PHOSGENE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0047
TITLE: Decision on Regulation of Polycyclic Organic Matter (POM) Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, R. Morrison
CAS NO: CL-POM
CHEMICAL: POLYCYCLIC ORGANIC MATTER (POM)
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0048
TITLE: Decision on Regulation of Propylene Oxide and Propylene Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, N. Pate
CAS NO: 75-56-9; 115-07-1
CHEMICAL: PROPYLENE OXIDE; PROPYLENE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0049
TITLE: Decision on Regulation of Styrene Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, I. Cote
CAS NO: 100-42-5
CHEMICAL: STYRENE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0050
TITLE: Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, L. Zaragoza
CAS NO: 584-84-9
CHEMICAL: TOLUENE DIISOCYANATE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0051
TITLE: Decision on Regulation of Methyl Isocyanate Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, L. Zaragoza
CAS NO: 624-83-9
CHEMICAL: METHYL ISOCYANATE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0052
TITLE: Decision on Regulation of Xylene Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, F. Hauchman
CAS NO: 1330-20-7
CHEMICAL: XYLENE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0053
TITLE: Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act
STATUS: In Progress 1986
CONTACT: OAQPS/SASD/PAB, J. Vandenberg
CAS NO: 1314-13-2; 7440-66-6
CHEMICAL: ZINC; ZINC OXIDE
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0054
TITLE: List of Superfund Hazardous Waste Sites with Air Contamination Problems
STATUS: In Progress FY 86
CONTACT: OERR/HSC, S. Caldwell
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment

CL-BIB-0055
TITLE: Potential for Air Releases From CERCLA Sites
STATUS: Started 7/85; Complete 4/86
CONTACT: OERR/HSC, S. Caldwell
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities, Spills, Etc.
PROJECT TYPE: Source Assessment

CL-BIB-0056
TITLE: Guidelines for Carcinogen Risk Assessment
STATUS: Proposed 11/84; Review in Progress FY 85; Publish FY 86
CONTACT: OHEA/CAG, R. McGaughy
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Risk Assessment

CL-BIB-0057
TITLE: Health Assessment Document for Beryllium, External Review
STATUS: Publish Final Version FY 86
CONTACT: OHEA/ECAO-RTP, D. Sivulka
CAS NO: 7440-41-7
CHEMICAL: BERYLLIUM
PROJECT TYPE: Health Assessment

CL-BIB-0058
TITLE: Health Assessment Document for Nickel
STATUS: Publish Final FY 86
CONTACT: OHEA/ECAO-RTP, D. Sivulka
CAS NO: 7440-02-0
CHEMICAL: NICKEL
PROJECT TYPE: Health Assessment

CL-BIB-0059
TITLE: Health Assessment Document for Acrolein
STATUS: Publish FY 86
CONTACT: OHEA/ECAO-RTP, W. Ewald
CAS NO: 107-02-8
CHEMICAL: ACROLEIN
PROJECT TYPE: Health Assessment

CL-BIB-0060
TITLE: Health Assessment Document for Phenol, External Review
STATUS: In Progress FY 86
CONTACT: OHEA/ECAO-RTP, W. Ewald
CAS NO: 108-95-2
CHEMICAL: PHENOL
PROJECT TYPE: Health Assessment

CL-BIB-0061
TITLE: Health Assessment Document for Acetaldehyde, External Review
STATUS: Publish Final Version FY 86
CONTACT: OHEA/ECAO-RTP, W. Ewald
CAS NO: 75-07-0
CHEMICAL: ACETALDEHYDE
PROJECT TYPE: Health Assessment

CL-BIB-0062
TITLE: Health Assessment Document for Hydrogen Sulfide, External Review
STATUS: Publish Final Version FY 86
CONTACT: OHEA/ECAO-RTP, H. Ammann
CAS NO: 7783-06-4
CHEMICAL: HYDROGEN SULFIDE
PROJECT TYPE: Health Assessment

CL-BIB-0063
TITLE: Health Assessment Document for Phosgene, External Review
STATUS: Publish Final Version FY 86
CONTACT: OHEA/ECAO-RTP, D. Campbell
CAS NO: 73-44-5
CHEMICAL: PHOSGENE
PROJECT TYPE: Health Assessment

CL-BIB-0064
TITLE: Health Assessment Document for Dibenzofurans
STATUS: In Progress FY 86
CONTACT: OHEA/ECAO-Ci, D. Mukerjee
CAS NO: 132-64-9
CHEMICAL: DIBENZOFURANS
PROJECT TYPE: Health Assessment

CL-BIB-0065
TITLE: Health Assessment Summary for Copper
STATUS: In Progress FY 86
CONTACT: OHEA/ECAO-Ci, D. Reisman
CAS NO: 7440-50-8
CHEMICAL: COPPER
PROJECT TYPE: Health Assessment

CL-BIB-0066
TITLE: Risk Assessment Guidelines for Chemical Mixtures
STATUS: Proposed 1/85; Review in Progress FY 86
CONTACT: OHEA/ECAO-Ci, R. Hertzberg
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Risk Assessment

CL-BIB-0067
TITLE: Risk Assessment Guidelines for Systemic Toxicants
STATUS: In Progress FY 86
CONTACT: OHEA/ECAO-Ci, J. Olsen
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Risk Assessment

CL-BIB-0068
TITLE: Guidelines for Exposure Assessment
STATUS: Proposed 11/84; Final 1986
CONTACT: OHEA/EAG, D. Moraski
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Exposure Assessment

CL-BIB-0069
TITLE: Evaluation of Methods to Estimate Absorbed Doses of Inhaled Oxidants
STATUS: Started FY 84; Complete 12/86
CONTACT: OHEA/EAG, R. Walentowicz
CAS NO: VARIOUS
CHEMICAL: VARIOUS OXIDANTS
PROJECT TYPE: Exposure Assessment

CL-BIB-0070
TITLE: Chemical Hazard Information Profile for Chlorinated Styrenes
STATUS: In Preparation 1986
CONTACT: OTS/A/CSB, J. Leitzke
CAS NO: VARIOUS
CHEMICAL: CHLORINATED STYRENES
PROJECT TYPE: CHIP

CL-BIB-0071
TITLE: Chemical Hazard Information Profile for Hexafluoroisobutylene
STATUS: In Preparation 1986
CONTACT: OTS/A/CSB, J. Leitzke
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: CHIP

CL-BIB-0072
TITLE: Chemical Hazard Information Profile for Brominated Biphenyl Ethers
STATUS: In Preparation 1986
CONTACT: OTS/A/CSB, J. Leitzke
CAS NO: VARIOUS
CHEMICAL: BROMINATED BIPHENYL ETHERS
PROJECT TYPE: CHIP

CL-BIB-0073
TITLE: Chemical Hazard Information Profile for Organosilanes
STATUS: In Preparation 1986
CONTACT: OTS/A/CSB, J. Leitzke
CAS NO: VARIOUS
CHEMICAL: VARIOUS ORGANOSILANES
PROJECT TYPE: CHIP

CL-BIB-0074
TITLE: Chemical Hazard Information Profile for Diisopropyl Sulfate
STATUS: In Preparation 1986
CONTACT: OTS/A/CSB, J. Leitzke
CAS NO: 2973-10-6
CHEMICAL: DIISOPROPYL SULFATE
PROJECT TYPE: CHIP

CL-BIB-0075
TITLE: Risk Analysis of Existing Data on Triethyl Phosphate
STATUS: Ongoing FY 86
CONTACT: OTS/A/RAB, J. Wiltse
CAS NO: 78-40-0
CHEMICAL: TRIETHYL PHOSPHATE
PROJECT TYPE: Risk Assessment

CL-BIB-0076
TITLE: Risk Analysis of Existing Data on Dimethoxyethyl Phthalate
STATUS: Ongoing FY 86
CONTACT: OTS/A/RAB, J. Wiltse
CAS NO: 117-82-8
CHEMICAL: DIMETHOXYETHYL PHTHALATE
PROJECT TYPE: Risk Assessment

CL-BIB-0077
TITLE: Risk Analysis of Existing Data on Phenylethanol
STATUS: Ongoing FY 86
CONTACT: OTS/A/RAB, J. Wiltse
CAS NO: 60-12-8
CHEMICAL: PHENYLETHANOL
PROJECT TYPE: Risk Assessment

CL-BIB-0078
TITLE: Risk Analysis of Existing Data on Phenylethanol Acetate
STATUS: Ongoing FY 86
CONTACT: OTS/A/RAB, J. Wiltse
CAS NO: 103-45-7
CHEMICAL: PHENYLETHANOL ACETATE
PROJECT TYPE: Risk Assessment

CL-BIB-0079
TITLE: Risk Analysis of Existing Data on Phthalimide
STATUS: Ongoing FY 86
CONTACT: OTS/A/RAB, J. Wiltse
CAS NO: 85-41-6
CHEMICAL: PHTHALIMIDE
PROJECT TYPE: Risk Assessment

CL-BIB-0080
TITLE: NESHAP For Radon-222 Emissions From Licensed Uranium Mines
STATUS: Proposal FY 86; Promulgation 8/86
CONTACT: ORP/CSD/ESB, K. McLaughin
CAS NO: 7440-61-1
CHEMICAL: URANIUM
SOURCE: Uranium Mines; Mining
PROJECT TYPE: NESHAP

CL-BIB-0081
TITLE: Develop Sampling Methods for Speciated Nickel
STATUS: Complete FY 86
CONTACT: EMSL-RTP, F. Butler
CAS NO: 7440-02-0; VARIOUS
CHEMICAL: NICKEL
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0082
TITLE: Validate an Emission Test Method for Dioxins
STATUS: Complete 3/87
CONTACT: EMSL-RTP, M. Midgett
CAS NO: 1746-01-6; CL-DIOXIN
CHEMICAL: DIOXINS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0083
TITLE: Develop and Evaluate a Source Test Method for Ethylene Oxide
STATUS: Complete 12/86
CONTACT: EMSL-RTP, M. Midgett
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0084
TITLE: Source Test Methods for Ammonia and Chlorine
STATUS: Publish 9/87
CONTACT: EMSL-RTP, M. Midgett
CAS NO: 7664-41-7; 7782-50-5
CHEMICAL: AMMONIA; CHLORINE
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0085
TITLE: Validation of a Method for Cadmium Analysis
STATUS: Publish 9/86
CONTACT: EMSL-RTP, M. Midgett
CAS NO: 7440-43-9
CHEMICAL: CADMIUM
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0086
TITLE: Develop and Validate a Source Test Method for Methylene Chloride
STATUS: Publish 12/86
CONTACT: EMSL-RTP, M. Midgett
CAS NO: 75-09-2
CHEMICAL: METHYLENE CHLORIDE
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0087
TITLE: Report on Development of New Sampling and Analysis Techniques for Ambient Hazardous Air Pollutants (HAP)
STATUS: Publish 12/86
CONTACT: EMSL-RTP, R. Lewis
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0088
TITLE: Report on Evaluation of Spherocarb for Potential Collection and Concentration of Ambient Organic Pollutants
STATUS: Publish 9/86
CONTACT: EMSL-RTP, J. Bumgarner
CAS NO: CL-ORGANIC
CHEMICAL: ORGANICS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0089
TITLE: Progress Report on Monitoring Capabilities for Volatile Organic Compounds
STATUS: Publish 6/86
CONTACT: EMSL-RTP, W. McClenny
CAS NO: CL-VOC
CHEMICAL: VOC
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0090
TITLE: Report on Evaluation of PUF and Other Sorbents for Collection of Chlorinated Aromatics from Ambient Air
STATUS: Publish 1/87
CONTACT: EMSL-RTP, J. Mulik
CAS NO: CL-CAH
CHEMICAL: CHLORINATED AROMATIC HYDROCARBONS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0091
TITLE: Progress Report on Development and Evaluation of Personal Exposure Monitors for NO2
STATUS: Publish 2/86
CONTACT: EMSL-RTP, W. McClenny
CAS NO: 10102-44-0
CHEMICAL: NITROGEN DIOXIDE
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0092
TITLE: Sampling and Analysis Methodology for Polynuclear Aromatics (PNA) in Microenvironments
STATUS: Complete 4/86
CONTACT: EMSL-RTP, N. Wilson
CAS NO: CL-POM
CHEMICAL: POLYNUCLEAR AROMATICS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0093
TITLE: Pilot Study of Sampling and Analysis for Polynuclear Aromatics (PNA) in Microenvironments
STATUS: Complete 11/86
CONTACT: EMSL-RTP, N. Wilson
CAS NO: CL-PNA
CHEMICAL: POLYNUCLEAR AROMATICS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0094
TITLE: Sampling of Gasoline Vapors from Self-Service Gasoline Stations
STATUS: Complete 9/86
CONTACT: EMSL-RTP, T. Hartlage
CAS NO: VARIOUS
CHEMICAL: GASOLINE VAPORS
SOURCE: Self-Service Gasoline Stations
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0095
TITLE: Status Report of Population Exposure Activities for FY 86
STATUS: Complete 12/86
CONTACT: EMSL-RTP, D. Mage
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Exposure Assessment

CL-BIB-0096
TITLE: Model of Human Exposures Inside Vehicles on Highways
STATUS: Complete 3/86
CONTACT: EMSL-RTP, D. Mage
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Exposure Assessment

CL-BIB-0097
TITLE: Report on Advances in Analytical Methods for Identification and Quantitation of Organic Compounds in Air
STATUS: Complete 12/86
CONTACT: EMSL-RTP, N. Wilson
CAS NO: CL-ORGANIC
CHEMICAL: ORGANICS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0098
TITLE: Report on the Asbestos Audit Program
STATUS: Publish 9/86
CONTACT: EMSL-RTP, M. Beard
CAS NO: 1332-21-4
CHEMICAL: ASBESTOS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0099
TITLE: Validation of Volatile Organic Sampling Train Method
STATUS: Complete FY 86
CONTACT: EMSL-RTP, R. Fuerst
CAS NO: CL-VOC
CHEMICAL: VOC
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0100
TITLE: Progress Report on Diode Laser Analysis for NO2 and Nitric Acid
STATUS: Publish 10/86
CONTACT: EMSL-RTP, W. McClenny
CAS NO: 10102-44-0; 7697-37-2
CHEMICAL: NITROGEN DIOXIDE; NITRIC ACID
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0101
TITLE: Final Report of the Pesticide Total Exposure Study
STATUS: Publish 1/87
CONTACT: EMSL-RTP, A. Bond
CAS NO: CL-PEST
CHEMICAL: PESTICIDES
PROJECT TYPE: Exposure Assessment

CL-BIB-0102
TITLE: Application of Total Exposure Assessment Methodology to the Study of Public Exposure to Pesticides in an Urban Area
STATUS: Complete 4/87
CONTACT: EMSL-RTP, G. Akland
CAS NO: CL-PEST
CHEMICAL: PESTICIDES
PROJECT TYPE: Exposure Assessment

CL-BIB-0103
TITLE: Atmospheric Measurements of Trace Hazardous Organic Chemicals
STATUS: Draft Report 3/86
CONTACT: ASRL-RTP, L. Cupitt
CAS NO: CL-ORGANIC
CHEMICAL: ORGANIC COMPOUNDS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0104
TITLE: Hazardous Air Pollutants in the Urban Environment
STATUS: Ongoing 1986
CONTACT: ASRL-RTP, L. Cupitt
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Monitoring, Sampling, and Analysis; Source Assessment

CL-BIB-0105
TITLE: Ambient Air/Source Transport and Transformation Relationships for Selected Hazardous Air Pollutants
STATUS: Complete FY 86
CONTACT: ASRL-RTP, W. Lonneman
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0106
TITLE: Update of a Database on VOC in the Atmosphere
STATUS: Ongoing FY 86
CONTACT: ASRL-RTP, L. Cupitt
CAS NO: CL-VOC
CHEMICAL: VOLATILE ORGANIC COMPOUNDS (VOC)
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0107
TITLE: Harvard University Cooperative Agreement - Monographs On Research and Policy Issues Including Sensitive Individuals, Biological Screening Tests, Air Carcinogen Policy, and Regulation of Toxic and Nuclear Waste
STATUS: Started 6/80; Complete 10/90
CONTACT: ORD/OHR, H. McKinnon
CAS NO: VARIOUS
CHEMICAL: HAZARDOUS AIR POLLUTANTS
PROJECT TYPE: Risk Assessment

CL-BIB-0108
TITLE: Determine Pulmonary Dose-Response Relationships
STATUS: Started 10/81; Complete 9/92
CONTACT: HERL-RTP, F. Miller
CAS NO: VARIOUS
CHEMICAL: HAZARDOUS AIR POLLUTANTS (PRIORITY)
PROJECT TYPE: Toxicology

CL-BIB-0109
TITLE: Determine Neurotoxic Dose-Response Relationships
STATUS: Started 10/81; Complete 6/87
CONTACT: HERL-RTP, P. Bushnell
CAS NO: VARIOUS
CHEMICAL: HAZARDOUS AIR POLLUTANTS (PRIORITY)
PROJECT TYPE: Toxicology

CL-BIB-0110
TITLE: Characterize Genotoxic Dose-Response Relationships
STATUS: Started 10/79; Complete 10/88
CONTACT: HERL-RTP, J. Lewtas
CAS NO: VARIOUS
CHEMICAL: HAZARDOUS AIR POLLUTANTS (PRIORITY)
PROJECT TYPE: Toxicology

CL-BIB-0111
TITLE: Identify and Evaluate Toxic Components of Air Pollution
STATUS: Started 10/81; Complete 10/89
CONTACT: HERL-RTP; J. Lewtas
CAS NO: VARIOUS
CHEMICAL: HAZARDOUS AIR POLLUTANTS
PROJECT TYPE: Toxicology; Monitoring, Sampling, and Analysis

CL-BIB-0112
TITLE: Determine the Significance of Neurotoxic Response Indicators
STATUS: Started 10/81; Complete 10/88
CONTACT: HERL-RTP, W. Boyes
CAS NO: VARIOUS
CHEMICAL: HAZARDOUS AIR POLLUTANTS
PROJECT TYPE: Toxicology

CL-BIB-0113
TITLE: Evaluate the Contribution of Source Emissions to Cancer Risk
STATUS: Started 10/83; Complete 10/88
CONTACT: HERL-RTP, J. Lewtas
CAS NO: CL-ORGANIC
CHEMICAL: ORGANIC COMPOUNDS
SOURCE: Residential Buildings; Combustion; Coke Ovens
PROJECT TYPE: Source Assessment; Risk Assessment; Toxicology

CL-BIB-0114
TITLE: Develop Methods to Identify Reproductive Toxicity of Air Pollutants
STATUS: Started 10/84; Complete 9/90
CONTACT: HERL-RTP, J. Laskey
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicology

CL-BIB-0115
TITLE: Integrated Air Cancer Project
STATUS: Started 10/84; Complete 10/90
CONTACT: HERL-RTP, J. Lewtas
CAS NO: CL-CARCIN
CHEMICAL: VARIOUS
SOURCE: Combustion
PROJECT TYPE: Exposure Assessment

CL-BIB-0116
TITLE: Destruction of VOC/HAP Emissions via Catalytic Incineration
STATUS: Started 6/85; Complete 6/88
CONTACT: AEERL-RTP, B. Tichenor
CAS NO: CL-VOC
CHEMICAL: HAZARDOUS AIR POLLUTANTS; VOC
PROJECT TYPE: Emission Factor Document

CL-BIB-0117
TITLE: Indoor Air Quality Source Assessment Studies
STATUS: Started 10/85; Complete 3/86
CONTACT: AEERL-RTP, D. Sanchez
CAS NO: CL-IAP
CHEMICAL: INDOOR AIR POLLUTANTS
PROJECT TYPE: Source Assessment

CL-BIB-0118
TITLE: Characterization of Emissions from Indoor Materials
STATUS: Started 4/85; Complete 4/86
CONTACT: AEERL-RTP, D. Sanchez
CAS NO: CL-IAP
CHEMICAL: INDOOR AIR POLLUTANTS
PROJECT TYPE: Emission Factor Document; Monitoring, Sampling, and Analysis

CL-BIB-0119
TITLE: Ninth International Symposium on Polynuclear Aromatics
STATUS: Started 3/84; Ongoing
CONTACT: AEERL-RTP, Johnson
CAS NO: CL-POM; CL-PNA
CHEMICAL: POLYNUCLEAR AROMATIC HYDROCARBONS
PROJECT TYPE: Source Assessment

CL-BIB-0120
TITLE: Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment
STATUS: Started 3/83; Ongoing
CONTACT: AEERL-RTP, J. Ruppersberger
CAS NO: VARIOUS
CHEMICAL: DYES
SOURCE: Textile Industry
PROJECT TYPE: Source Assessment

CL-BIB-0121
TITLE: Evaluation of Hazardous Waste Incinerator Operation
STATUS: Started 2/83; Ongoing
CONTACT: AEERL-RTP, D. Harris
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities; Incinerators
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0122
TITLE: Survey of Indoor Air Pollutant Measurement Technology
STATUS: Started 11/83; Ongoing
CONTACT: AEERL-RTP, D. Harris
CAS NO: CL-IAP
CHEMICAL: INDOOR AIR POLLUTANTS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0123
TITLE: Methods Development for Collecting Indoor Air Pollutant Samples for Bioassay
STATUS: Started 9/83; Ongoing
CONTACT: AEERL-RTP, D. Harris
CAS NO: CL-IAP
CHEMICAL: INDOOR AIR POLLUTANTS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0124
TITLE: Volatile Organic Sampling for Hazardous Waste Incinerator
STATUS: Started 12/84; Ongoing
CONTACT: AEERL-RTP, Anderson
CAS NO: CL-ORGANIC
CHEMICAL: ORGANIC COMPOUNDS
SOURCE: Hazardous Waste Facilities; Incinerators
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0125
TITLE: Sample Integrity and Sorbent Evaluation for Hazardous Waste Incineration and Stationary Source Sampling
STATUS: Started 8/82; Ongoing
CONTACT: AEERL-RTP, R. Merrill
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities; Incinerators
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0126
TITLE: Integrated Air Cancer Project - Source Measurement
STATUS: In Progress FY 86
CONTACT: AEERL-RTP, R. McCrillis
CAS NO: CL-CARCIN
CHEMICAL: VARIOUS
PROJECT TYPE: Monitoring, Sampling, and Analysis; Source Assessment

CL-BIB-0127
TITLE: Analysis of Wood Stove Emissions Samples
STATUS: Started 2/86; Complete 4/86
CONTACT: AEERL-RTP, R. McCrillis
CAS NO: CL-WOOD
CHEMICAL: VARIOUS; WOOD SMOKE
SOURCE: Combustion
PROJECT TYPE: Source Assessment

CL-BIB-0128
TITLE: Integrated Air Cancer Project: Wood Stove Operating Profiles
STATUS: Started 11/85; Complete 7/86
CONTACT: AEERL-RTP, R. McCrillis
CAS NO: CL-WOOD
CHEMICAL: VARIOUS; WOOD SMOKE
SOURCE: Combustion
PROJECT TYPE: Source Assessment

CL-BIB-0129
TITLE: Demonstration of Low-Cost Reduction of Indoor Radon From Soil
STATUS: Complete 3/87
CONTACT: AEERL-RTP, B. Henschel
CAS NO: CL-IAP
CHEMICAL: INDOOR AIR POLLUTANTS
PROJECT TYPE: Source Assessment

CL-BIB-0130
TITLE: Chlorofluorocarbon Control Evaluation
STATUS: Start 3/86; Complete 9/86
CONTACT: AEERL-RTP, W. Rhodes
CAS NO: VARIOUS
CHEMICAL: CHLOROFLUOROCARBON
PROJECT TYPE: Emission Factor Document

CL-BIB-0131
TITLE: Novel Vapor-Deposited Lubricants for Metal Forming
STATUS: Started 4/85; Complete 9/86
CONTACT: AEERL-RTP, C. Darvin
CAS NO: CL-VOC
CHEMICAL: VOLATILE ORGANIC COMPOUNDS (VOC)
SOURCE: Metals Production
PROJECT TYPE: Source Assessment

CL-BIB-0132
TITLE: CO2 Laser Photoacoustic Toxic Vapor Monitoring
STATUS: Started 9/85; Complete 9/86
CONTACT: AEERL-RTP, M. Jackson
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0133
TITLE: Determination of Long Term Wood Stove Catalyst Efficiency Degradation--Continuous Burn Tests
STATUS: Started 2/85; Complete 4/86
CONTACT: AEERL-RTP, R. McCrillis
CAS NO: CL-WOOD
CHEMICAL: VARIOUS; WOOD SMOKE
SOURCE: Combustion
PROJECT TYPE: Source Assessment

CL-BIB-0134
TITLE: Preliminary Assessment of Hazardous Waste Pretreatment as an Air Pollution Control Technique
STATUS: Publish 6/86
CONTACT: HWERL-Ci, B. Blaney
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment

CL-BIB-0135
TITLE: Field Verification of Methane Movement Predictions and Methane Control Systems for Landfills
STATUS: Publish Draft 3/85; In Review FY 86
CONTACT: HWERL-Ci, M. Roulier
CAS NO: 74-82-8
CHEMICAL: METHANE
SOURCE: Hazardous Waste Sites
PROJECT TYPE: Source Assessment

CL-BIB-0136
TITLE: Field Evaluation of Hazardous Waste Pretreatment as an Air Pollution Control Device
STATUS: Publish 6/86
CONTACT: HWERL-Ci, B. Blaney
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment; Monitoring, Sampling, and Analysis

CL-BIB-0137
TITLE: Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System
STATUS: Publish 8/86
CONTACT: HWERL-Ci, B. Blaney
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment

CL-BIB-0138
TITLE: Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility
STATUS: Publish 8/86
CONTACT: HWERL-Ci, B. Blaney
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment

CL-BIB-0139
TITLE: Identify Volatilization Mechanisms and Parameters for Surface Impoundments and Develop Measurement Techniques for These Parameters
STATUS: Publish Draft 2/85 In Review FY 86
CONTACT: HWERL-Ci, S. James
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTE
SOURCE: Hazardous Waste Sites
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0140
TITLE: Field Assessment of Steam and Air Stripper VOC Removal Efficiencies
STATUS: Publish 2/87
CONTACT: HWERL-Ci, B. Blaney
CAS NO: CL-HAZWAST; CL-VOC
CHEMICAL: HAZARDOUS WASTES; VOLATILE ORGANIC COMPOUNDS
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment

CL-BIB-0141
TITLE: Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities
STATUS: Publish 2/87
CONTACT: HWERL-Ci, B. Blaney
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment

CL-BIB-0142
TITLE: Field Assessment of Fate of Organics in Aerated Treatment Systems
STATUS: Publish 4/87
CONTACT: HWERL-Ci, B. Blaney
CAS NO: CL-HAZWAST; CL-ORGANIC
CHEMICAL: HAZARDOUS WASTES; ORGANIC COMPOUNDS
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment

CL-BIB-0143
TITLE: Develop Mobile Collection/Treatment System for Spilled Volatile and Gaseous Materials
STATUS: Publish Draft 4/86
CONTACT: HWERL-Edi, M. Royer
CAS NO: VARIOUS
CHEMICAL: VARIOUS
SOURCE: Hazardous Spills
PROJECT TYPE: Source Assessment

CL-BIB-0144
TITLE: Evaluation of Volatilization of Hazardous Compounds at Hazardous Waste Land Treatment Sites
STATUS: Complete 6/86
CONTACT: Kerr Lab, F. Pfeffer
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Sites
PROJECT TYPE: Source Assessment

CL-BIB-0145
TITLE: Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants
STATUS: In Progress FY 86
CONTACT: EPA Region I, T. D'Avanzo
CAS NO: VARIOUS
CHEMICAL: VARIOUS
SOURCE: Sewage Treatment Plants
PROJECT TYPE: Source Assessment

CL-BIB-0146
TITLE: New York State Stack Sampling of Resource Recovery Plants
STATUS: Started 1984; Complete FY 86
CONTACT: EPA Region II, R. Kelly
CAS NO: CL-DIOXIN; CL-METAL; CL-PCB
CHEMICAL: DIOXINS; HEAVY METALS; POLYCHLORINATED BIPHENYLS
SOURCE: Resource Recovery Plants
PROJECT TYPE: Source Assessment

CL-BIB-0147
TITLE: Analysis of Acid Precipitation Samples Collected in West Virginia, Delaware, and Maryland
STATUS: Ongoing FY 86
CONTACT: EPA Region III, T. Erdman
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0148
TITLE: Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes
STATUS: Ongoing FY 86
CONTACT: EPA Region IV, D. Cook
CAS NO: 7440-47-3
CHEMICAL: CHROMIUM
SOURCE: Chemical Industry, Ferrochromium Alloy Production
PROJECT TYPE: Source Assessment

CL-BIB-0149
TITLE: Analysis of Hazardous Pollutants from Chromium Chemical Production
STATUS: Ongoing FY 86
CONTACT: EPA Region IV, D. Cook
CAS NO: 7440-47-3
CHEMICAL: CHROMIUM
SOURCE: Chemical Industry; Chromium Production
PROJECT TYPE: Source Assessment

CL-BIB-0150
TITLE: Analysis of Hazardous Pollutants from Nitrobenzene Production
STATUS: Ongoing FY 86
CONTACT: EPA Region IV, D. Cook
CAS NO: 71-43-2; 98-95-3
CHEMICAL: BENZENE; NITROBENZENE
SOURCE: Chemical Industry; Nitrobenzene Production
PROJECT TYPE: Source Assessment

CL-BIB-0151
TITLE: Gulf Coast Community Exposure Study
STATUS: In Progress FY 86
CONTACT: EPA Region VI, J. Lyons
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Exposure Assessment

CL-BIB-0152
TITLE: 2-Phase Project to Identify Metro Area Point Sources and Develop an Emissions Inventory
STATUS: In Progress FY 86
CONTACT: EPA Region VII, B. Chanslor
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Source Assessment; Exposure Assessment

CL-BIB-0153
TITLE: Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers
STATUS: Start 1/86; Complete 7/86
CONTACT: EPA Region IX, D. Deneen
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
SOURCE: Sterilizers; Fumigation Chambers
PROJECT TYPE: Source Assessment; Emission Factor Document

CL-BIB-0154
TITLE: Source Assessment Manual - for California Air Districts
STATUS: Started 9/85; Complete 9/86
CONTACT: EPA Region IX, T. Smith
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Source Assessment; Risk Assessment

CL-BIB-0155
TITLE: South Coast Exposure Study
STATUS: Start FY 86; Complete FY 87
CONTACT: EPA Region IX, M. Stenburg
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Exposure Assessment

CL-BIB-0156
TITLE: Source Assessment Manual - Development of Ambient Guidelines for Non-Cancer Effects
STATUS: Started 5/86
CONTACT: EPA Region IX, T. Smith
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Source Assessment

CL-BIB-0157
TITLE: Contra Costa Exposure Study
STATUS: In Progress FY 86
CONTACT: EPA Region IX, T. Smith
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Exposure Assessment

CL-BIB-0158
TITLE: Hawaiian Sugar Cane Burning Study
STATUS: In Progress FY 86
CONTACT: EPA Region IX, D. Deneen
CAS NO: VARIOUS
CHEMICAL: VARIOUS
SOURCE: Burning Sugar Cane Fields
PROJECT TYPE: Source Assessment

CL-BIB-0159
TITLE: Pesticide Impact Study from Field and Slash Burning
STATUS: Start 1986; Complete 9/87
CONTACT: EPA Region X, D. Davoli
CAS NO: CL-PEST; CL-PM; CL-POM
CHEMICAL: PESTICIDES, PARTICULATE MATTER; POLYCYCLIC ORGANIC MATTER
SOURCE: Agricultural; Forestry
PROJECT TYPE: Source Assessment

CL-BIB-0160
TITLE: Fibrogenicity of Coal Slags
STATUS: Started 10/82; Complete FY 86
CONTACT: NIOSH/DBBS/ABPB, L. Stettler
CAS NO: 7631-86-9
CHEMICAL: COAL SLAGS; SILICA
PROJECT TYPE: Toxicology

CL-BIB-0161
TITLE: Particulate and Tissue Analysis Service and Research
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DBBS/ABPB, L. Stettler
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Monitoring, Sampling, and Analysis; Toxicology

CL-BIB-0162
TITLE: Evaluation of Mesothelioma Production by Asbestos Substitutes
STATUS: Started 10/84; Complete 9/88
CONTACT: NIOSH/DBBS/ABPB, F. Platek
CAS NO: 1332-21-4; VARIOUS
CHEMICAL: ASBESTOS; ASBESTOS SUBSTITUTES
PROJECT TYPE: Toxicology

CL-BIB-0163
TITLE: Biomonitoring of Exposure to Coal Tar
STATUS: Started 10/83; Complete 9/86
CONTRACT: NIOSH/DBBS/ABPB, B. Tolos
CAS NO: 129-00-0; VARIOUS
CHEMICAL: PYRENE; COAL TAR
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0164
TITLE: Development and Evaluation of Biomonitoring Methods for Methyl Ethyl Ketone
STATUS: Started 9/85; Complete 9/87
CONTRACT: NIOSH/DBBS/ABPB, F. Phipps
CAS NO: 78-93-3
CHEMICAL: METHYL ETHYL KETONE
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0165
TITLE: Behavioral Teratology of Alcohol Solvents
STATUS: Started 10/82; Complete 12/87
CONTACT: NIOSH/DBBS/APEB, K. Anger
CAS NO: CL-SOLVENT
CHEMICAL: ALCOHOL SOLVENTS; SOLVENTS
PROJECT TYPE: Toxicology

CL-BIB-0166
TITLE: Neurotoxicity of Aliphatic Carbon Solvents
STATUS: Started 10/83; Complete 9/87
CONTACT: NIOSH/DBBS/APEB, J. Russo
CAS NO: CL-SOLVENT
CHEMICAL: SOLVENTS
PROJECT TYPE: Toxicology

CL-BIB-0167
TITLE: Neurobehavioral Effects from Single/Mixed Spray Paint Agents
STATUS: Started 10/79, Complete 9/87
CONTACT: NIOSH/DBBS/APEB, R. Dick
CAS NO: VARIOUS
CHEMICAL: PAINTS; KETONES
PROJECT TYPE: Toxicology

CL-BIB-0168
TITLE: Neurotoxicity from Exposure to Heavy Metals
STATUS: Started 10/84; Complete 9/88
CONTACT: NIOSH/DBBS/APEB, K. Anger
CAS NO: 7440-43-9; CL-METAL
CHEMICAL: CADMIUM; HEAVY METALS
PROJECT TYPE: Toxicology

CL-BIB-0169
TITLE: Methodologies for Worksite Neurotoxicity
STATUS: Started 10/84; Complete 9/87
CONTACT: NIOSH/DBBS/APEB, K. Anger
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicology; Epidemiology

CL-BIB-0170
TITLE: Measurement/Modeling of Risk-Taking Behaviors Re: Neurotoxic Agents
STATUS: Started 10/85; Complete 9/86
CONTRACT: NIOSH/DBBS/APEB, D. Chrislip
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicology

CL-BIB-0171
TITLE: Diesel Exhaust/Coal Dust Animal Exposure Studies
STATUS: Started 10/77; Completed 9/83; Awaiting Publication
CONTACT: NIOSH/DBBS/ETB, T. Lewis
CAS NO: CL-DIESEL
CHEMICAL: DIESEL EXHAUST; COAL DUST
SOURCE: Mining
PROJECT TYPE: Toxicology

CL-BIB-0172
TITLE: Occupational Cardiac Toxicity
STATUS: Started 10/80; Completed 5/84; Awaiting Publication
CONTACT: NIOSH/DBBS/ETB, D. Lynch
CAS NO: 107-11-9; 121-44-8
CHEMICAL: ALLYLAMINE; TRIETHYLAMINE
PROJECT TYPE: Toxicology

CL-BIB-0173
TITLE: Dichloroethane Drug Interactions-NCI
STATUS: Started 10/80; Complete 9/85; Awaiting Publication
CONTACT: NIOSH/DBBS/ETB, K. Cheever
CAS NO: 107-06-2
CHEMICAL: 1,2-DICHLOROETHANE
PROJECT TYPE: Toxicology

CL-BIB-0174
TITLE: Assessment of Cocarcinogenic Activity of Asphalt Fumes
STATUS: Started 10/82; Complete 9/88
CONTACT: NIOSH/DBBS/ETB, R. Niemeier
CAS NO: 8052-42-4
CHEMICAL: ASPHALT
PROJECT TYPE: Toxicology

CL-BIB-0175
TITLE: Inhalation Reproductive and Developmental Toxicity Testing
STATUS: Started 10/84; Complete 9/89
CONTACT: NIOSH/DBBS/ETB, B. Hardin
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicology

CL-BIB-0176
TITLE: Prioritizing Chemicals for Reproductive Toxicity Testing
STATUS: Started 10/80; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, B. Hardin
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicology

CL-BIB-0177
TITLE: Biochemical Indices of Male Reproductive Impairment
STATUS: Started 10/82; Complete 12/85
CONTACT: NIOSH/DBBS/ETB, K. Cheever
CAS NO: VARIOUS
CHEMICAL: GLYCOL ETHERS
PROJECT TYPE: Toxicology

CL-BIB-0178
TITLE: Metabolism and Excretion Studies of Bis(2-Methoxyethyl) Ether(Diglyme)
STATUS: Started 10/84; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, D. Richards
CAS NO: 111-96-6
CHEMICAL: BIS(2-METHOXYETHYL)ETHER
PROJECT TYPE: Toxicology

CL-BIB-0179
TITLE: Cardiovascular Fetotoxicity and Functional Teratogenesis
STATUS: Started 10/83; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, M. Toraason
CAS NO: 109-86-4
CHEMICAL: 2-METHOXYETHANOL
PROJECT TYPE: Toxicology

CL-BIB-0180
TITLE: Pulmonary Hypersensitivity of Industrial Agents
STATUS: Started 10/84; Complete 9/87
CONTACT: NIOSH/DBBS/ETB, R.Biagini
CAS NO: 85-44-9
CHEMICAL: PHTHALIC ANHYDRIDE
PROJECT TYPE: Toxicology

CL-BIB-0181
TITLE: Chronic Inhalation of Vanadium Pentoxide
STATUS: Started 10/83; Complete 9/88
CONTACT: NIOSH/DBBS/ETB, W. Moorman
CAS NO: 1314-62-1
CHEMICAL: VANADIUM PENTOXIDE
PROJECT TYPE: Toxicology

CL-BIB-0182
TITLE: In Vitro Tests for Workplace Carcinogens
STATUS: Started 10/80; Complete 9/88
CONTACT: NIOSH/DBBS/ETB, J. Bohrman
CAS NO: CL-CARCIN
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicology

CL-BIB-0183
TITLE: Biomonitoring for Populations Exposed to Aromatic Amines
STATUS: Started 6/85; Complete 9/88
CONTACT: NIOSH/DBBS/ETB, B. Daniel
CAS NO: CL-AMINE
CHEMICAL: AROMATIC AMINES
PROJECT TYPE: Toxicology

CL-BIB-0184
TITLE: Percutaneous Absorption Characteristics of Occupational Chemicals
STATUS: Started 10/84; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, A. Susten
CAS NO: CL-SOLVENT
CHEMICAL: SOLVENTS
PROJECT TYPE: Toxicology

CL-BIB-0185
TITLE: Occupational Cardiac Toxicity
STATUS: Started 10/84; Complete 6/86
CONTACT: NIOSH/DBBS/ETB, D. Lynch
CAS NO: 75-15-0
CHEMICAL: CARBON DISULFIDE
PROJECT TYPE: Toxicology

CL-BIB-0186
TITLE: Carcinogenicity of Dimethylformamide
STATUS: Started 9/85; Complete 12/89
CONTACT: NIOSH/DBBS/ETB, T. Lewis
CAS NO: 68-12-2
CHEMICAL: DIMETHYLFORMAMIDE
PROJECT TYPE: Toxicology

CL-BIB-0187
TITLE: Chronic Biological Effects of Dimethylformamide
STATUS: Started 1/79; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, T. Lewis
CAS NO: 68-12-2; CL-SOLVENT
CHEMICAL: DIMETHYLFORMAMIDE; SOLVENTS
PROJECT TYPE: Toxicology

CL-BIB-0188
TITLE: Semen Analysis in Animals, Longitudinal and Field Studies
STATUS: Started 10/84; Complete 10/88
CONTACT: NIOSH/DBBS/ETB, S. Schrader
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicology

CL-BIB-0189
TITLE: Evaluation of Drosophila for Teratogen Screening
STATUS: Started 10/81; Complete 12/87
CONTACT: NIOSH/DBBS/ETB, R. Schuler
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicology

CL-BIB-0190
TITLE: Temporal Factors Influencing Carcinogenicity of Industrial Chemicals
STATUS: Started 10/85; Complete 9/89
CONTRACT: NIOSH/DBBS/ETB, T. Lewis
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
SOURCE: Chemical Industry
PROJECT TYPE: Toxicology

CL-BIB-0192
TITLE: Evaluation of the Effects of Washed Cotton
STATUS: Started 10/81; Complete FY 86
CONTACT: NIOSH/DRDS/CIB, R. Castellan
CAS NO: VARIOUS
CHEMICAL: COTTON DUSTS
SOURCE: Textile Industry
PROJECT TYPE: Epidemiology; Toxicology

CL-BIB-0193
TITLE: Occupational Lung Disease Associated with Exposure to Diesel Emissions
STATUS: Started 10/81; Complete 9/86
CONTACT: NIOSH/DRDS/ENIB, M. McCawley
CAS NO: CL-DIESEL
CHEMICAL: DIESEL EXHAUST
PROJECT TYPE: Epidemiology

CL-BIB-0194
TITLE: Prospective Cohort and Industrial Hygiene Study of Mild Steel Welders
STATUS: Started 10/83; Complete 10/91
CONTACT: NIOSH/DRDS/ENIB, P. Hewett
CAS NO: CL-WELD
CHEMICAL: WELDING FUMES
SOURCE: Welding; Steel Industry
PROJECT TYPE: Epidemiology

CL-BIB-0195
TITLE: Effective Silica Indices of Respirable Mineral Dusts
STATUS: Started 10/84; Complete 9/88
CONTACT: NIOSH/DRDS/ENIB, W. Wallace
CAS NO: 7631-86-9
CHEMICAL: SILICA
PROJECT TYPE: Monitoring, Sampling, and Analysis

CL-BIB-0196
TITLE: Occupational Health Studies in Emerging Energy Industries
STATUS: Started 8/81; Complete FY 86
CONTACT: NIOSH/DRDS/ENIB, W. Wallace
CAS NO: VARIOUS
CHEMICAL: VARIOUS
SOURCE: Energy Industry; Oil Shale Processes
PROJECT TYPE: Epidemiology

CL-BIB-0197
TITLE: Micro-Organisms in HVAC Systems
STATUS: Started 10/82; Complete 9/89
CONTACT: NIOSH/DRDS/ENIB, J. Peach
CAS NO: CL-ORGANIC
CHEMICAL: AEROSOLS; ORGANIC COMPOUNDS
SOURCE: Agriculture
PROJECT TYPE: Toxicology

CL-BIB-0198
TITLE: National Occupational Health Survey of Mining
STATUS: Started 10/82; Complete 12/90
CONTACT: NIOSH/DRDS/ENIB, W. Carr
CAS NO: VARIOUS
CHEMICAL: VARIOUS
SOURCE: Mining
PROJECT TYPE: Epidemiology

CL-BIB-0199
TITLE: Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action
STATUS: Started 10/85; Complete 9/88
CONTACT: NIOSH/DRDS/ENIB, J. Peach
CAS NO: CL-ORGANIC; CL-IAP
CHEMICAL: AEROSOLS; ORGANIC COMPOUNDS; INDOOR AIR POLLUTANTS
SOURCE: Office Buildings
PROJECT TYPE: Source Assessment

CL-BIB-0200
TITLE: Evaluating Profilatic Coatings for Silica Dusts
STATUS: Started 10/85; Complete 10/87
CONTACT: NIOSH/DRDS/ENIB, W. Wallace
CAS NO: VARIOUS; 7631-86-9
CHEMICAL: SILICA; SILICA DUST
PROJECT TYPE: Toxicology; Health Assessment

CL-BIB-0201
TITLE: Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions
STATUS: Started 10/81; Completed 9/84; In Publication FY 86
CONTACT: NIOSH/DRDS/EPIB, R. Ames
CAS NO: CL-DIESEL
CHEMICAL: DIESEL EXHAUST; COAL DUST
SOURCE: Mining
PROJECT TYPE: Epidemiology

CL-BIB-0202
TITLE: Morbidity and Industrial Hygiene Study Of Mild Steel Welders
STATUS: Started 10/81; Complete 9/90
CONTACT: NIOSH/DRDS/EPIB, J. Gamble
CAS NO: 1332-37-2; 1309-37-1
CHEMICAL: IRON OXIDE; IRON OXIDE FUME
SOURCE: Welding; Steel Industry
PROJECT TYPE: Epidemiology

CL-BIB-0203
TITLE: Mortality of Miners and Related Workers
STATUS: Started 10/78; Complete FY 86
CONTACT: NIOSH/DRDS/EPIB, J. Costello
CAS NO: 50-32-8; 56-55-3; CL-DIESEL; CL-PNA; 7631-86-9
CHEMICAL: DIESEL EXHAUST; POLYNUCLEAR AROMATIC HYDROCARBONS; BENZO(A)PYRENE; BENZ(A)ANTHRACENE; SILICA; COAL DUST; ASBESTOS
SOURCES: Mining; Cargo Transport; Granite Industry; Cement Industry; Crushed Stone Industry
PROJECT TYPE: Epidemiology

CL-BIB-0204
TITLE: Studies of Miners and Millers of Non-Metallic Ores
STATUS: Started 1/77; Completed 10/84; In Publication FY 86
CONTACT: NIOSH/DRDS/EPIB, J. Gamble
CAS NO: VARIOUS
CHEMICAL: VARIOUS
SOURCE: Non-Metallic Minerals Industry; Mining
PROJECT TYPE: Epidemiology

CL-BIB-0205
TITLE: Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners
STATUS: Started 10/82; Complete 9/85, Final 3/87
CONTACT: NIOSH/DRDS/EPIB, H. Amandus
CAS NO: 7631-86-9
CHEMICAL: SILICA
SOURCE: Mining
PROJECT TYPE: Epidemiology

CL-BIB-0206
TITLE: National Coal Study and Coal Worker Surveillance
STATUS: Started 10/81; Continuing
CONTACT: NIOSH/DRDS/EPIB, M. Attfield
CAS NO: VARIOUS
CHEMICAL: COAL DUST
SOURCE: Mining
PROJECT TYPE: Epidemiology

CL-BIB-0207
TITLE: Study of Workers in the Dusty Trades in North Carolina - NCI
STATUS: Started FY 84; Complete FY 87
CONTACT: NIOSH/DRDS/EPIB, H. Amandus
CAS NO: 7631-86-9; 1332-21-4
CHEMICAL: SILICA; ASBESTOS
PROJECT TYPE: Epidemiology

CL-BIB-0208
TITLE: Health Experience of Industrial Sand Workers
STATUS: Started FY 84; Complete FY 87
CONTACT: NIOSH/DRDS/EPIB, H. Amandus
CAS NO: 7631-86-9
CHEMICAL: SILICA
SOURCE: Sand Industry
PROJECT TYPE: Epidemiology

CL-BIB-0210
TITLE: Effects of Formaldehyde on the Respiratory System
STATUS: Started FY 84; Complete FY 87
CONTACT: NIOSH/DRDS/EPIB, J. Gamble
CAS NO: 50-00-0
CHEMICAL: FORMALDEHYDE
PROJECT TYPE: Epidemiology

CL-BIB-0211
TITLE: Epidemiologic Environmental Study - Office Workers
STATUS: Draft FY 89
CONTACT: NIOSH/DRDS/EPIB, J. Gamble
CAS NO: CL-IAP
CHEMICAL: VARIOUS; INDOOR AIR POLLUTANTS
SOURCE: Office Buildings
PROJECT TYPE: Epidemiology

CL-BIB-0212
TITLE: Prospective Study of Welders of Mild Steel
STATUS: Draft FY 89
CONTACT: NIOSH/DRDS/EPIB, J. Gamble
CAS NO: CL-WELD
CHEMICAL: WELDING FUMES
SOURCE: Welding
PROJECT TYPE: Epidemiology

CL-BIB-0213
TITLE: Mortality of Diesel Exposed Miners
STATUS: Draft FY 89
CONTACT: NIOSH/DRDS/EPIB, J. Gamble
CAS NO: CL-DIESEL
CHEMICAL: DIESEL EXHAUST
SOURCE: Mining
PROJECT TYPE: Epidemiology

CL-BIB-0214
TITLE: Endotoxins in Cotton
STATUS: Started 10/82; Complete 9/87
CONTACT: NIOSH/DRDS/LIB, S. Olenchock
CAS NO: VARIOUS
CHEMICAL: COTTON DUSTS
PROJECT TYPE: Epidemiology; Toxicology

CL-BIB-0215
TITLE: Microbiological and Mutagenesis Studies
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DRDS/LIB, T. Ong
CAS NO: CL-DIESEL
CHEMICAL: COAL DUST; DIESEL EXHAUST
PROJECT TYPE: Toxicology

CL-BIB-0216
TITLE: Comparative Research in Analytical Pathology
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DRDS/LIB, V. Vallyathan
CAS NO: VARIOUS
CHEMICAL: COTTON DUSTS; VARIOUS
SOURCE: Coal Mining; Mining; Textile Industry
PROJECT TYPE: Epidemiology; Toxicology

CL-BIB-0217
TITLE: Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms
STATUS: Start FY 86; Complete 9/88
CONTACT: NIOSH/DRDS/LIB, N. Hahon
CAS NO: 50-32-8; 1332-21-4; 7631-86-9
CHEMICAL: BENZO(A)PYRENE; ASBESTOS; SILICA; COAL DUST
SOURCE: Mining
PROJECT TYPE: Toxicology

CL-BIB-0218
TITLE: Alveolar Type II Cells; Effect of Silica
STATUS: Start 10/86; Complete 9/88
CONTACT: NIOSH/DRDS/LIB, J. Rabobsky
CAS NO: 7631-86-9
CHEMICAL: SILICA
SOURCE: Coal Mining
PROJECT TYPE: Toxicology

CL-BIB-0219
TITLE: Mortality Analysis of United Auto Workers Cohorts
STATUS: Started 10/80; Completed 9/83; In Publication 1/86
CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe
CAS NO: VARIOUS
CHEMICAL: VARIOUS
SOURCE: Automobile Industry
PROJECT TYPE: Epidemiology

CL-BIB-0220
TITLE: Mortality and Industrial Hygiene Study of Wood Dye and Model Makers
STATUS: Started 10/80; Complete FY 86
CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe
CAS NO: VARIOUS
CHEMICAL: VARIOUS
SOURCE: Automobile Industry; Woodworking
PROJECT TYPE: Epidemiology

CL-BIB-0221
TITLE: Mortality Study of Chemical Plants in Kanawha Valley, West Virginia
STATUS: Started 10/79; Complete FY 86
CONTACT: NIOSH/DSHEFS/IWSB, R. Rinsky
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
SOURCE: Chemical Industry
PROJECT TYPE: Epidemiology

CL-BIB-0222
TITLE: Mortality and Industrial Hygiene Study of Workers Exposed to Toluene
STATUS: Started 10/79; Complete FY 86
CONTACT: NIOSH/DSHEFS/IWSB, F. Stern
CAS NO: 108-88-3
CHEMICAL: TOLUENE
PROJECT TYPE: Epidemiology

CL-BIB-0223
TITLE: Mortality and Industrial Hygiene Study of Formaldehyde
STATUS: Started 10/80; Complete FY 86
CONTACT: NIOSH/DSHEFS/IWSB, L. Stayner
CAS NO: 50-00-0
CHEMICAL: FORMALDEHYDE
PROJECT TYPE: Epidemiology

CL-BIB-0224
TITLE: Ethylene Oxide Mortality Study - NCI
STATUS: Started 10/82; Complete FY 87
CONTACT: NIOSH/DSHEFS/IWSB, L. Stayner
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
PROJECT TYPE: Epidemiology

CL-BIB-0225
TITLE: Investigation of Workers Exposed to MOCA
STATUS: Started 10/82; Complete FY 86
CONTACT: NIOSH/DSHEFS/IWSB, E. Ward
CAS NO: 101-14-4
CHEMICAL: MOCA
PROJECT TYPE: Epidemiology

CL-BIB-0226
TITLE: Mortality of Dioxin Workers
STATUS: Started 10/79; Complete FY 86
CONTACT: NIOSH/DSHEFS/IWSB, Fingerhut
CAS NO: 95-95-4; 87-86-5; CL-DIOXIN
CHEMICAL: DIOXINS; 2,4,5-TRICHLOROPHENOL; PENTACHLOROPHENOL
PROJECT TYPE: Epidemiology

CL-BIB-0227
TITLE: Update of Completed Cohort Mortality Studies - NCI
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, D. Brown
CAS NO: 1336-36-3; 127-18-4; 100-42-5; 106-99-0; 71-43-2; 7440-43-9; 75-01-4; CL-PEST; CL-PCB
CHEMICAL: POLYCHLORINATED BIPHENYLS (PCB); PERCHLOROETHYLENE; PESTICIDES; RUBBER; STYRENE; BUTADIENE; BENZENE; CADMIUM; VINYL CHLORIDE
PROJECT TYPE: Epidemiology

CL-BIB-0228
TITLE: Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI
STATUS: Started 10/82; Complete FY 87
CONTACT: NIOSH/DSHEFS/IWSB, M. Herrick
CAS NO: 7440-47-3; 7758-97-6
CHEMICAL: LEAD CHROMATE; CHROMIUM
PROJECT TYPE: Epidemiology

CL-BIB-0229
TITLE: Beryllium Retrospective Cohort Investigation - NCI
STATUS: Started 10/81; Complete FY 86
CONTACT: NIOSH/DSHEFS/IWSB, L. Ward
CAS NO: 7440-41-7
CHEMICAL: BERYLLIUM
PROJECT TYPE: Epidemiology

CL-BIB-0230
TITLE: Medical, Biometric and Industrial Hygiene Study of Emerging Problems
STATUS: Started 10/79; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, W. Halperin
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Epidemiology

CL-BIB-0231
TITLE: Health Hazard Evaluations and Technical Assistance
STATUS: Started 10/80; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, J. Melius
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Epidemiology; Health Assessment

CL-BIB-0232
TITLE: Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA
STATUS: Started 10/81; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, D. Brown
CAS NO: 117-81-7; 75-21-8; 50-00-0; 101-14-4; VARIOUS
CHEMICAL: DEHP; ETHYLENE OXIDE; MOCA; FORMALDEHYDE; ORGANOTIN; GLYCOL ETHERS
PROJECT TYPE: Epidemiology; Health Assessment

CL-BIB-0233
TITLE: Cohort Mortality Study of Antimony Smelter Workers
STATUS: Started FY 84; In Progress FY 86
CONTACT: NIOSH/DSHEFS/IWSB, Schnorr
CAS NO: 7440-36-0
CHEMICAL: ANTIMONY
SOURCE: Smelters
PROJECT TYPE: Epidemiology

CL-BIB-0234
TITLE: Exposure to Butadiene in the Industrial Environment
STATUS: Started FY 84; In Progress FY 86
CONTACT: NIOSH/DSHEFS/IWSB, Fajen
CAS NO: 106-99-0
CHEMICAL: BUTADIENE
SOURCE: Chemical Industry
PROJECT TYPE: Exposure Assessment

CL-BIB-0235
TITLE: Occupational Exposure to Carbon Monoxide
STATUS: Started FY 80; In Progress FY 86
CONTACT: NIOSH/DSHEFS/IWSB, F. Stern
CAS NO: 630-08-0
CHEMICAL: CARBON MONOXIDE
SOURCE: Mobile Sources
PROJECT TYPE: Epidemiology

CL-BIB-0236
TITLE: Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin
STATUS: Started FY 84; In Progress FY 88
CONTACT: NIOSH/DSHEFS/IWSB, Sweeny
CAS NO: 1746-01-6; CL-DIOXIN
CHEMICAL: DIOXINS; 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
PROJECT TYPE: Epidemiology

CL-BIB-0237
TITLE: Characterization of Worker Exposure to Ethylene Oxide
STATUS: Started FY 84; In Progress FY 86
CONTACT: NIOSH/DSHEFS/IWSB, Ringenburg
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
PROJECT TYPE: Epidemiology

CL-BIB-0238
TITLE: Mortality Study of Workers Exposed to Chlorinated Naphthalenes
STATUS: Started FY 84; In Progress FY 86
CONTACT: NIOSH/DSHEFS/IWSB, E. Ward
CAS NO: VARIOUS; CL-ORGANIC
CHEMICAL: CHLORINATED NAPHTHALENES
PROJECT TYPE: Epidemiology

CL-BIB-0239
TITLE: Causes of Mortality Among Workers Exposed to Methylenedianiline (MDA)
STATUS: Started FY 84; In Progress FY 86
CONTACT: NIOSH/DSHEFS/IWSB, Boeniger
CAS NO: 101-77-9
CHEMICAL: METHYLENEDIANILINE
PROJECT TYPE: Epidemiology

CL-BIB-0240
TITLE: Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium
STATUS: Started FY 84; In Progress FY 87
CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland
CAS NO: CL-WELD
CHEMICAL: WELDING FUMES
SOURCE: Steel Industry; Welding
PROJECT TYPE: Epidemiology

CL-BIB-0241
TITLE: Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills
STATUS: Started FY 84; In Progress FY 86
CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland
CAS NO: 7664-93-9
CHEMICAL: SULFURIC ACID
SOURCE: Steel Industry
PROJECT TYPE: Epidemiology

CL-BIB-0242
TITLE: Study of Lung Cancer Mortality Among Teamsters
STATUS: Started FY 84; In Progress FY 87
CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland
CAS NO: CL-DIESEL
CHEMICAL: DIESEL EXHAUST
SOURCE: Mobile Sources
PROJECT TYPE: Epidemiology

CL-BIB-0243
TITLE: Cohort Mortality Study of Toluene Diisocyanate Exposed Workers
STATUS: Started FY 84; In Progress FY 86
CONTACT: NIOSH/DSHEFS/IWSB, Schnorr
CAS NO: 26471-62-5
CHEMICAL: TOLUENE DIISOCYANATE
PROJECT TYPE: Epidemiology

CL-BIB-0244
TITLE: Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI
STATUS: Started FY 84; In Progress FY 86
CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe
CAS NO: 10043-92-2; VARIOUS
CHEMICAL: RADON; VARIOUS
SOURCE: Uranium Mines; Mining
PROJECT TYPE: Epidemiology

CL-BIB-0245
TITLE: Radon Daughter Surveys of Foundries Using Zirconium Sand
STATUS: Started FY 84; In Progress FY 86
CONTACT: NIOSH/DSHEFS/IWSB, Bloom
CAS NO: 10043-92-2; 7440-67-7
CHEMICAL: RADON; ZIRCONIUM
SOURCE: Foundries
PROJECT TYPE: Epidemiology

CL-BIB-0246
TITLE: Mortality of Sulfuric Acid Exposed Workers
STATUS: In Publication FY 86
CONTACT: NIOSH/DSHEFS/IWSB, J. Beaumont
CAS NO: 7664-93-9
CHEMICAL: SULFURIC ACID
SOURCE: Steel Industry
PROJECT TYPE: Epidemiology

CL-BIB-0247
TITLE: Morbidity and Mortality Study of Workers Exposed to Nitroglycerin
STATUS: Ongoing 1986
CONTACT: NIOSH/DSHEFS/IWSB, L. Stayner
CAS NO: 55-63-0
CHEMICAL: NITROGLYCERIN
SOURCE: Dynamite; Chemical Industry
PROJECT TYPE: Epidemiology

CL-BIB-0248
TITLE: New Air Sampling and Biological Monitoring Techniques For Evaluating Exposure to Cellosolve Solvents
STATUS: Ongoing 1986
CONTACT: NIOSH/DSHEFS/IWSB, I. Zaebst
CAS NO: VARIOUS; 110-80-5
CHEMICAL: GLYCOL ETHERS; CELLOSOLVE
PROJECT TYPE: Monitoring, Sampling, and Analysis; Exposure Assessment

CL-BIB-0249
TITLE: A Study of Worker Exposure to Grain Fumigants
STATUS: Ongoing 1986
CONTACT: NIOSH/DSHEFS/IWSB, I. Zaebst
CAS NO: VARIOUS
CHEMICAL: GRAIN FUMIGANTS
SOURCE: Grain Handling, Agriculture
PROJECT TYPE: Epidemiology

CL-BIB-0250
TITLE: Occupational Exposure During Sugar Cane Harvesting
STATUS: Ongoing 1986
CONTACT: NIOSH/DSHEFS/IWSB, Boeniger
CAS NO: 7631-86-9; CL-POM
CHEMICAL: SILICA FIBERS; POLYCYCLIC ORGANIC MATTER
SOURCE: Sugar Cane Harvesting; Agriculture
PROJECT TYPE: Exposure Assessment

CL-BIB-0251
TITLE: Exposure Risks for Various Occupations Involving Handling of Biologic Tissues
STATUS: Proposed FY 86
CONTACT: NIOSH/DSHEFS/IWSB, M. Herrick
CAS NO: VARIOUS
CHEMICAL: VARIOUS
SOURCE: Biological Tissue Handling; Anatomists; Embalmers
PROJECT TYPE: Epidemiology; Exposure Assessment

CL-BIB-0252
TITLE: Access to National Occupational Hazard Survey Data Base Profile Development
STATUS: Started 10/78; Continuing
CONTACT: NIOSH/DSHEFS/SB, J. Seta
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Epidemiology

CL-BIB-0253
TITLE: Surveillance Cooperative Agreements Between NIOSH and States
STATUS: Started 10/79, Continuing
CONTACT: NIOSH/DSHEFS/SB, W. Crouse
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Epidemiology

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Determine Pulmonary Dose-Response Relationships (CL-BIB-0108)

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Preliminary Assessment of Hazardous Waste Pretreatment as an Air Pollution Control Technique (CL-BIB-0134)

Field Verification of Methane Movement Predictions and Methane Control Systems for Landfills (CL-BIB-0135)

Field Evaluation of Hazardous Waste Pretreatment as an Air Pollution Control Device (CL-BIB-0136)

Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System (CL-BIB-0137)

Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility (CL-BIB-0138)

Identify Volatilization Mechanisms and Parameters for Surface Impoundments and Develop Measurement Techniques for These Parameters (CL-BIB-0139)

Field Assessment of Steam and Air Stripper VOC Removal Efficiencies (CL-BIB-0140)

Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities (CL-BIB-0141)

Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-BIB-0142)

Develop Mobile Collection/Treatment System for Spilled Volatile and Gaseous Materials (CL-BIB-0143)

Evaluation of Volatilization of Hazardous Compounds at Hazardous Waste Land Treatment Sites (CL-BIB-0144)

Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants (CL-BIB-0145)

New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)

492 (GAS PRODUCTION AND DISTRIBUTION)

Evaluate the Contribution of Source Emissions to Cancer Risk (CL-BIB-0113)

495 (SANITARY SERVICES)

Process Sampling and Emission Model Development for Hazardous Waste Treatment, Storage, and Disposal Facility Area Source Air Emissions (CL-BIB-0001)

Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities (CL-BIB-0030)

List of Superfund Hazardous Waste Sites with Air Contamination Problems (CL-BIB-0054)

Potential for Air Releases From CERCLA Sites (CL-BIB-0055)

Evaluation of Hazardous Waste Incinerator Operation (CL-BIB-0121)

Volatile Organic Sampling for Hazardous Waste Incinerator (CL-BIB-0124)

Sample Integrity and Sorbent Evaluation for Hazardous Waste Incineration and Stationary Source Sampling (CL-BIB-0125)

Preliminary Assessment of Hazardous Waste Pretreatment as an Air Pollution Control Technique (CL-BIB-0134)

Field Verification of Methane Movement Predictions and Methane Control Systems for Landfills (CL-BIB-0135)

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Develop Mobile Collection/Treatment System for Spilled Volatile and Gaseous Materials (CL-BIB-0143)

Evaluation of Volatilization of Hazardous Compounds at Hazardous Waste Land Treatment Sites (CL-BIB-0144)

Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants (CL-BIB-0145)

New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)

4952 (SEWERAGE SYSTEMS)
Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants (CL-BIB-0145)

4953 (REFUSE SYSTEMS)
Process Sampling and Emission Model Development for Hazardous Waste Treatment, Storage, and Disposal Facility Area Source Air Emissions (CL-BIB-0001)

Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities (CL-BIB-0030)

List of Superfund Hazardous Waste Sites with Air Contamination Problems (CL-BIB-0054)

Potential for Air Releases From CERCLA Sites (CL-BIB-0055)

Evaluation of Hazardous Waste Incinerator Operation (CL-BIB-0121)

Volatile Organic Sampling for Hazardous Waste Incinerator (CL-BIB-0124)

Sample Integrity and Sorbent Evaluation for Hazardous Waste Incineration and Stationary Source Sampling (CL-BIB-0125)

Preliminary Assessment of Hazardous Waste Pretreatment as an Air Pollution Control Technique (CL-BIB-0134)

Field Verification of Methane Movement Predictions and Methane Control Systems for Landfills (CL-BIB-0135)

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Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility (CL-BIB-0138)

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Evaluation of Volatilization of Hazardous Compounds at Hazardous Waste Land Treatment Sites (CL-BIB-0144)

New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)

50-00-0 (FORMALDEHYDE)
Decision on Regulation of Formaldehyde Under the Clean Air Act (CL-BIB-0040)

Effects of Formaldehyde on the Respiratory System (CL-BIB-0210)

Mortality and Industrial Hygiene Study of Formaldehyde (CL-BIB-0223)

Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-BIB-0232)

50-32-8 (BENZO(A)PYRENE)
Mortality of Miners and Related Workers (CL-BIB-0203)

Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-BIB-0217)

508 (MACHINERY, EQUIPMENT, AND SUPPLIES)
High Arsenic Copper Smelters NESHAP (CL-BIB-0016)

Low Arsenic Copper Smelters NESHAP (CL-BIB-0017)

5084 (INDUSTRIAL MACHINERY AND EQUIPMENT)
High Arsenic Copper Smelters NESHAP (CL-BIB-0016)

Low Arsenic Copper Smelters NESHAP (CL-BIB-0017)

517 (PETROLEUM AND PETROLEUM PRODUCTS)
Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments (CL-BIB-0028)

55 (AUTOMOTIVE DEALERS & SERVICE STATIONS)
Organic Solvent Cleaning 111(D) NSPS (CL-BIB-0014)

Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments (CL-BIB-0028)

Sampling of Gasoline Vapors from Self-Service Gasoline Stations (CL-BIB-0094)

55-63-0 (NITROGLYCERINE)
Morbidity and Mortality Study of Workers Exposed to Nitroglycerin (CL-BIB-0247)

554 (GASOLINE SERVICE STATIONS)
Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments (CL-BIB-0028)

Sampling of Gasoline Vapors from Self-Service Gasoline Stations (CL-BIB-0094)

56-23-5 (CARBON TETRACHLORIDE)
Carbon Tetrachloride NESHAP (CL-BIB-0003)

56-55-3 (BENZ(A)ANTHRACENE)
Mortality of Miners and Related Workers (CL-BIB-0203)

584-84-9 (TOLUENE,24,DIISOCYANATE)
Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act (CL-BIB-0050)

60-12-8 (PHENETHYL ALCOHOL)
Risk Analysis of Existing Data on Phenylethanol (CL-BIB-0077)

624-83-9 (METHYL ISOCYANATE)
Decision on Regulation of Methyl Isocyanate Under the Clean Air Act (CL-BIB-0051)

630-08-0 (CARBON MONOXIDE)
Occupational Exposure to Carbon Monoxide (CL-BIB-0235)

67-66-3 (CHLOROFORM)
Chloroform NESHAP (CL-BIB-0004)

68-12-2 (DIMETHYLFORMAMIDE,N,N-)
Carcinogenicity of Dimethylformamide (CL-BIB-0186)

Chronic Biological Effects of Dimethylformamide (CL-BIB-0187)

71-43-2 (BENZENE)
Coke Ovens/Byproduct Plants (Benzene) NESHAP (CL-BIB-0011)

Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments (CL-BIB-0028)

Analysis of Hazardous Pollutants from Nitrobenzene Production (CL-BIB-0150)

Update of Completed Cohort Mortality Studies - NCI (CL-BIB-0227)

71-55-6 (TRICHLOROETHANE,1,1,1-)
Organic Solvent Cleaning 111(D) NSPS (CL-BIB-0014)

72 (PERSONAL SERVICES)
Organic Solvent Cleaning 111(D) NSPS (CL-BIB-0014)

Exposure Risks for Various Occupations Involving Handling of Biologic Tissues (CL-BIB-0251)

721 (LAUNDRY, CLEANING, & GARMENT SERVICES)
Organic Solvent Cleaning 111(D) NSPS (CL-BIB-0014)

726 (FUNERAL SERVICE AND CREMATORIES)
Exposure Risks for Various Occupations Involving Handling of Biologic Tissues (CL-BIB-0251)

73 (BUSINESS SERVICES)
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)

73-44-5 (PHOSGENE)
Decision on Regulation of Phosgene Under the Clean Air Act (CL-BIB-0046)

Health Assessment Document for Phosgene, External Review (CL-BIB-0063)

734 (SERVICES TO BUILDINGS)
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)

7342 (DISINFECTING AND EXTERMINATING)
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)

74-82-8 (METHANE)
Field Verification of Methane Movement Predictions and Methane Control Systems for Landfills (CL-BIB-0135)

7439-97-6 (MERCURY)
Mercury NESHAP Revision (CL-BIB-0019)

7440-02-0 (NICKEL)
Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion (CL-BIB-0029)

Decision on Regulation of Nickel Under the Clean Air Act (CL-BIB-0033)

Health Assessment Document for Nickel (CL-BIB-0058)

Develop Sampling Methods for Speciated Nickel (CL-BIB-0081)

7440-36-0 (ANTIMONY)
Cohort Mortality Study of Antimony Smelter Workers (CL-BIB-0233)

7440-38-2 (ARSENIC)
Glass Manufacturing (Arsenic) NESHAP (CL-BIB-0015)

High Arsenic Copper Smelters NESHAP (CL-BIB-0016)

Low Arsenic Copper Smelters NESHAP (CL-BIB-0017)

Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion (CL-BIB-0029)

7440-41-7 (BERYLLIUM)
Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion (CL-BIB-0029)

Health Assessment Document for Beryllium, External Review (CL-BIB-0057)

Beryllium Retrospective Cohort Investigation - NCI (CL-BIB-0229)

7440-43-9 (CADMIUM)
Cadmium NESHAP (CL-BIB-0010)

Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion (CL-BIB-0029)

Validation of a Method for Cadmium Analysis (CL-BIB-0085)

Neurotoxicity from Exposure to Heavy Metals (CL-BIB-0168)

Update of Completed Cohort Mortality Studies - NCI (CL-BIB-0227)

7440-47-3 (CHROMIUM)
Chromium NESHAP (CL-BIB-0020)

Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion (CL-BIB-0029)

Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes (CL-BIB-0148)

Analysis of Hazardous Pollutants from Chromium Chemical Production (CL-BIB-0149)

Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI (CL-BIB-0228)

7440-50-8 (COPPER)
Decision on Regulation of Copper Under the Clean Air Act (CL-BIB-0038)

Health Assessment Summary for Copper (CL-BIB-0065)

7440-61-1 (URANIUM)
NESHAP For Radon-222 Emissions From Licensed Uranium Mines (CL-BIB-0080)

7440-66-6 (ZINC)
Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act (CL-BIB-0053)

7440-67-7 (ZIRCONIUM)
Radon Daughter surveys of Foundries Using Zirconium Sand (CL-BIB-0245)

75-01-4 (VINYL CHLORIDE)
Vinyl Chloride NESHAP Revision (CL-BIB-0013)

Update of Completed Cohort Mortality Studies - NCI (CL-BIB-0227)

75-07-0 (ACETALDEHYDE)
Decision on Regulation of Acetaldehyde Under The Clean Air Act (CL-BIB-0034)

Health Assessment Document for Acetaldehyde, External Review (CL-BIB-0061)

75-09-2 (METHYLENE CHLORIDE)
Methylene Chloride NESHAP (CL-BIB-0007)

Organic Solvent Cleaning 111(D) NSPS (CL-BIB-0014)

Locating and Estimating Air Emissions From Sources of Methylene Chloride (CL-BIB-0024)

Develop and Validate a Source Test Method for Methylene Chloride (CL-BIB-0086)

75-15-0 (CARBON DISULFIDE)
Occupational Cardiac Toxicity (CL-BIB-0185)

75-21-8 (ETHYLENE OXIDE)
Ethylene Oxide NESHAP (CL-BIB-0006)

Locating and Estimating Air Emissions From Sources of Ethylene Oxide (CL-BIB-0021)

Develop and Evaluate a Source Test Method for Ethylene Oxide (CL-BIB-0083)

Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)

Temporal Factors Influencing Carcinogenicity of Industrial Chemicals (CL-BIB-0190)

Mortality Study of Chemical Plants in Kanawha Valley, West Virginia (CL-BIB-0221)

Ethylene Oxide Mortality Study - NCI (CL-BIB-0224)

Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-BIB-0232)

Characterization of Worker Exposure to Ethylene Oxide (CL-BIB-0237)

75-56-9 (PROPYLENE OXIDE)
Decision on Regulation of Propylene Oxide and Propylene Under the Clean Air Act (CL-BIB-0048)

76 (MISCELLANEOUS REPAIR SERVICES)
Prospective Cohort and Industrial Hygiene Study of Mild Steel Welders (CL-BIB-0194)

Morbidity and Industrial Hygiene Study Of Mild Steel Welders (CL-BIB-0202)

Prospective Study of Welders of Mild Steel (CL-BIB-0212)

Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (CL-BIB-0240)

76-13-1 (TRICHLOROTRIFLUOROMETHANE,1,1,2-)
Organic Solvent Cleaning 111(D) NSPS (CL-BIB-0014)

7631-86-9 (SILICA)
Fibrogenicity of Coal Slags (CL-BIB-0160)

Effective Silica Indices of Respirable Mineral Dusts (CL-BIB-0195)

Evaluating Profilatic Coatings for Silica Dusts (CL-BIB-0200)

Mortality of Miners and Related Workers (CL-BIB-0203)

Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners (CL-BIB-0205)

Study of Workers in the Dusty Trades in North Carolina - NCI (CL-BIB-0207)

Health Experience of Industrial Sand Workers (CL-BIB-0208)

Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-BIB-0217)

Alveolar Type II Cells; Effect of Silica (CL-BIB-0218)

Occupational Exposure During Sugar Cane Harvesting (CL-BIB-0250)

7647-01-0 (HYDROGEN CHLORIDE)
Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act (CL-BIB-0037)

7664-41-7 (AMMONIA)
Decision on Regulation of Ammonia Under the Clean Air Act (CL-BIB-0036)

Source Test Methods for Ammonia and Chlorine (CL-BIB-0084)

7664-93-9 (SULFURIC ACID)
Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills (CL-BIB-0241)

Mortality of Sulfuric Acid Exposed Workers (CL-BIB-0246)

7692 (WELDING REPAIR)
Prospective Cohort and Industrial Hygiene Study of Mild Steel Welders (CL-BIB-0194)

Morbidity and Industrial Hygiene Study Of Mild Steel Welders (CL-BIB-0202)

Prospective Study of Welders of Mild Steel (CL-BIB-0212)

Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (CL-BIB-0240)

7697-37-2 (NITRIC ACID)
Progress Report on Diode Laser Analysis for NO2 and Nitric Acid (CL-BIB-0100)

7758-97-6 (LEAD CHROMATE)
Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI (CL-BIB-0228)

7782-50-5 (CHLORINE)
Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act (CL-BIB-0037)

Source Test Methods for Ammonia and Chlorine (CL-BIB-0084)

7783-06-4 (HYDROGEN SULFIDE)
Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act (CL-BIB-0042)

Health Assessment Document for Hydrogen Sulfide, External Review (CL-BIB-0062)

78-40-0 (TRIETHYL PHOSPHATE)
Risk Analysis of Existing Data on Triethyl Phosphate (CL-BIB-0075)

78-93-3 (BUTANONE,2-)
Development and Evaluation of Biomonitoring Methods for Methyl Ethyl Ketone (CL-BIB-0164)

79-01-6 (TRICHLOROETHYLENE)
Trichloroethylene NESHAP (CL-BIB-0009)

Organic Solvent Cleaning 111(D) NSPS (CL-BIB-0014)

Locating and Estimating Air Emissions From Sources of Trichloroethylene (CL-BIB-0026)

80 (HEALTH SERVICES)
Exposure Risks for Various Occupations Involving Handling of Biologic Tissues (CL-BIB-0251)

8052-42-4 (ASPHALT (PETROLEUM) FUMES)
Assessment of Cocarcinogenic Activity of Asphalt Fumes (CL-BIB-0174)

807 (MEDICAL AND DENTAL LABORATORIES)
Exposure Risks for Various Occupations Involving Handling of Biologic Tissues (CL-BIB-0251)

85-41-6 (PHTHALIMIDE)
Risk Analysis of Existing Data on Phthalimide (CL-BIB-0079)

85-44-9 (PHTHALIC ANHYDRIDE)
Pulmonary Hypersensitivity of Industrial Agents (CL-BIB-0180)

87-86-5 (PENTACHLOROPHENOL)
Mortality of Dioxin Workers (CL-BIB-0226)

91-20-3 (NAPHTHALENE)
Decision on Regulation of Naphthalene Under the Clean Air Act (CL-BIB-0044)

95-95-4 (TRICHLOROPHENOL,2,4,5-)
Mortality of Dioxin Workers (CL-BIB-0226)

98-95-3 (NITROBENZENE)
Analysis of Hazardous Pollutants from Nitrobenzene Production (CL-BIB-0150)

Part 3. OTHER SOURCES OF INFORMATION ON ONGOING RESEARCH

1. National Toxicology Program Fiscal Year 1985 Annual Plan.
Department of Health and Human Services.
March 1985, 343 pages, NTP-85-055.
Available from: National Toxicology Program Public Information Office, MD B2-04, Post Office Box 12233, Research Triangle Park, North Carolina, 27709, (919) 541-3991.

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

2. National Toxicology Program Review of Current DHHS, DOE and EPA Research Related to Toxicology, Fiscal Year 1985.
Department of Health and Human Services.
March 1985, 215 pages, NTP-85-056.
Available from: National Toxicology Program Public Information Office, MD B2-04, Post Office Box 12233, Research Triangle Park, North Carolina, 27709, (919) 541-3991.

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

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

3. PB84-213958 PC A19/MF A01
Chemical Activities Status Report. Fourth Edition, Volume I.
Eleanor T. Merrick
Environmental Protection Agency, Washington, D.C., Office of Pesticides and Toxic Substances.
February 1984, 426 pages, EPA-560/TIIS-84-001A.
Available from: National Technical Information Service (NTIS), Springfield, Virginia, 22161, (703) 487-4650.

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

4. PB84-213966 PC A99/MF E04
Chemical Activities Status Report. Fourth Edition, Volume II.
Eleanor T. Merrick
Environmental Protection Agency, Washington, D.C., Office of Pesticides and Toxic Substances.
February 1984, 725 pages, EPA-560/TIIS-84-001B.
Available from: National Technical Information Service (NTIS), Springfield, Virginia, 22161, (703) 487-4650.

Abstract: See PB84-213958 above.

5. Chemical Activities Status Report Tapes. February 1985.
Eleanor T. Merrick
Environmental Protection Agency, Washington, D.C., Office of Pesticides and Toxic Substances.
Available from: Walter Finch, Director of Office of Product Management, National Technical Information Service (NTIS), Springfield, Virginia, 22161, (703) 487-4805.

Additional Information: Funding for updating the EPA Chemical Activities Status Report (EPACASR) ended in 1984. An updated edition of the data base described previously is available on tape which is current through August 1984. No hard copy of the data is available. Copies of the tape can be obtained through NTIS by requesting the "EPACASR Tapes" dated February 1985. Two companies with copies of the tapes provide on-line data base access services. Users may buy a subscription which allows them to access the data base on their own terminals through a modem, or they may hire one of the companies to do on-line searches and data retrieval at a per hour rate.
Contact: Laurie Donaldson, Chemical Information Services (CIS, Inc.), Baltimore, Maryland, 21212, (800) 247-8737 or (301) 821-5980. Or contact Mark Posin, Information Consultants, Inc. (ICI), Washington, D.C., (202) 822-5200.

Abstract: See PB84-213958 above.

6. Managers Guide to EPA Activities on Toxic and Hazardous Chemicals. Environmental Protection Agency, Washington, D.C., Office of Toxic Substances.
September 1984, 321 pages, TR-540-11.
Available from: Chemical Coordination Staff, Office of Toxic Substances, Environmental Protection Agency, 401 M Street, S.W., Washington, D.C., 20460, (202) 475-6104.

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

APPENDIX
EPA OFFICE OF DRINKING WATER PROJECTS[1]

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

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

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

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

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

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

It may be determined that regulations are not warranted for some of the chemicals being studied under each phase. For such chemicals, ODW will provide nonregulatory health guidance to the States or water systems.[1]

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

TABLE 1. LIST OF PHASE 1 CHEMICALS

Volatile Synthetic Organic Chemicals (VOCs)
Tetrachloroethylene
Trichloroethylene
1,2-Dichloroethane
Carbon tetrachloride
Vinyl chloride
Benzene
1,1-Dichloroethylene
1,1,1-Trichloroethane
para-Dichlorobenzene

TABLE 2. LIST OF PHASE 2 CHEMICALS

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

TABLE 3. LIST OF PHASE 3 AND 4 CHEMICALS

Phase 3: Radionuclides	Phase 4: Disinfection By-products
Radium 226	Trihalomethanes
Radium 228	Haloacid derivatives
Gross alpha particle activity	Iodines
Beta particle and photon radioactivity	Chloramines
Uranium	Bromine
Radon	Ozone
	Dihaloacetonitriles
	Chlorine
	Chlorine dioxide and ions

TABLE 4. NATIONAL REVISED PRIMARY DRINKING WATER REGULATIONS SCHEDULE

Phase	Date
Phase 1: VOCs	
Advance notice of proposed rulemaking	March 4, 1982
Propose RMCLs	June 12, 1984
Final RMCLs, propose MCLs	November 13, 1985
Final MCLs	October 1986[a]
Phase 2: SOCs, IOCs, Microbials	
Advance notice of proposed rulemaking	October 5, 1983
Propose RMCLs	November 13, 1985
Final RMCLs, propose MCLs	March 1986[a]
Final MCLs	March 1987[a]
Phase 3: Radionuclides	
Advance notice of proposed rulemaking	October 5, 1983
Propose RMCLs	May 1986[a]
Phase 4: Disinfection By-products	
Advance notice of proposed rulemaking	1987

[a]Estimated dates based on agency review lasting approximately 3 months.

DATE