

INTRODUCTION

PURPOSE

This document was developed to provide a comprehensive list of National Institute for Occupational Safety and Health (NIOSH) documents that contain recommendations for safety and health standards in the workplace. Our intention is to make this information conveniently available to workers, employers, occupational health professionals, and union representatives.

BACKGROUND

Under the authority of the Occupational Safety and Health (OSH) Act [29 USC 1900] and the Mine Safety and Health Act [30 USC 80], NIOSH develops and recommends criteria for preventing disease and hazardous conditions in the workplace. NIOSH recommended exposure limits (RELs) are examples of such criteria. NIOSH also recommends preventive measures (e.g., engineering controls, safe work practices, personal protective equipment, and environmental and medical monitoring) for reducing or eliminating the adverse health effects of these hazards. To formulate these recommendations, NIOSH evaluates all relevant scientific information about a given hazard. The recommendations are then transmitted to the Occupational Safety and Health Administration (OSHA) and the Mine Safety and Health Administration (MSHA) of the U.S. Department of Labor for use in promulgating legal standards. These recommendations are generally published in criteria documents, Current Intelligence Bulletins (CIBs), Alerts, Special Hazard Reviews, Occupational Hazard Assessments, and responses to regulatory agencies (see page 2 for a description of these documents).

SCOPE

This document contains two major sections, A and B. Section A lists all NIOSH documents containing recommendations for chemical, physical, and other hazards in the workplace. Section B contains the NIOSH RELs for all of these hazards as well as the adverse health effects for the chemical and physical hazards. Five appendices contain additional information about (1) classes of chemicals and (2) RELs adopted or revised during OSHA rulemaking activity in 1988.*

Section A. Documents Containing NIOSH Recommendations for Safety and Health

This section lists all NIOSH documents that contain recommendations for safety and health standards in the workplace. These documents are listed by publication date under the occupational hazard they discuss. Each occupational hazard is arranged alphabetically. The types of documents included are as follows:

*This activity is referred to hereafter as the OSHA PEL Project. The final rule was published in the *Federal Register* on January 19, 1989 [54 FR 2329-2984 (1989)].

- **NIOSH publications** (criteria documents, CIBs, Alerts, Special Hazard Reviews, Occupational Hazard Assessments, and miscellaneous statements and reports)
- **Written testimony** from NIOSH about rules proposed by regulatory agencies such as OSHA, MSHA, or the U.S. Environmental Protection Agency (EPA)
- **Testimony presented by NIOSH** at regulatory hearings convened by OSHA or MSHA

These documents are described here briefly and are available through NIOSH or the National Technical Information Service (NTIS).*

Criteria Documents. —Criteria documents are developed to provide the basis for the comprehensive occupational safety and health standards sought by congress. These documents generally contain a critical review of the scientific and technical information available on the prevalence of hazards, the existence of safety and health risks, and the adequacy of methods to identify and control hazards. Recommendations for minimizing safety and health risks include medical monitoring, exposure assessment, worker training, control technology, personal protective equipment, and recordkeeping as well as RELs where appropriate. Criteria documents are developed primarily for the U.S. Department of Labor (OSHA and MSHA); however, they are also distributed to health professionals in academia, industry, organized labor, public interest groups, and other Federal, State, and local government agencies.

Current Intelligence Bulletins (CIBs). —CIBs review and evaluate new and emerging information about occupational hazards. A CIB may draw attention to a previously unrecognized hazard, report new data on a known hazard, or disseminate information about hazard control. These documents are distributed to representatives of academia, industry, organized labor, public health agencies, and public interest groups as well as to Federal agencies responsible for ensuring the safety and health of workers.

Alerts. —NIOSH Alerts briefly present new information about occupational illnesses, injuries, and deaths. Alerts urgently request assistance in preventing, solving, and controlling newly identified occupational hazards. Workers, employers, and safety and health professionals are asked to take immediate action to reduce risks and implement controls.

Special Hazard Reviews, Occupational Hazard Assessments, and Miscellaneous Statements and Reports. —Special Hazard Reviews, Occupational Hazard Assessments, and miscellaneous statements and reports are other types of NIOSH documents that complement NIOSH recommendations for standards. These documents assess safety and health problems and recommend appropriate methods for control and monitoring. Although these documents do not supplant the more comprehensive criteria documents, they are prepared to assist OSHA or MSHA in the formulation of regulations.

Responses to Regulatory Agencies. —NIOSH periodically presents written comments and testimony before Congressional committees and at regulatory hearings convened by OSHA or MSHA. The testimony always includes the current NIOSH policy concerning the hazard in question.

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Order desk telephone: (703) 487-4650.

Section B. NIOSH RELs and General Recommendations for Safety and Health

This section contains three tables listing occupational hazards and the NIOSH RELs and general recommendations for safety and health. Table 1 lists chemical hazards, Table 2 presents physical hazards, and Table 3 contains industry, process, and work environment hazards. Health effects cited in Tables 1 and 2 are those generally associated with the hazard; they are for humans unless otherwise noted. Consult the primary sources listed in Section A for definitive information. The Chemical Abstracts Service (CAS) number and the Registry of Toxic Effects of Chemical Substances (RTECS) number are included in Table 1 where appropriate.

Appendix I. Classes of Chemicals

Several RELs apply to entire classes of chemicals. Appendix I lists these classes (e.g., alkanes, ketones, etc.) and the individual members of each that are listed by RTECS. Table 1 of Section B refers the reader to Appendix I whenever a class name is mentioned. Readers may use the class name to locate source documents in Section A.

Appendix II. Chemicals for Which NIOSH Adopted RELs During the OSHA PEL Project

Appendix II lists chemicals for which NIOSH adopted exposure limits on the basis of their comments during the OSHA PEL Project. These RELs are included in Table 1 of Section B. For further information about these chemicals, readers should refer to OSHA's final rule on air contaminants in the *Federal Register* [54 FR 2641 (1989)] and to the 1988 NIOSH testimony on OSHA's proposed rule on air contaminants [NTIS No. PB-91-115-337].

Appendix III. Chemicals for Which NIOSH Did Not Adopt RELs During the OSHA PEL Project

Appendix III lists chemicals for which NIOSH did not adopt RELs during the OSHA PEL Project. After a limited review of these chemicals, NIOSH concluded that adverse health effects could occur at the proposed OSHA PELs.

Appendix IV. Chemicals for Which NIOSH Revised Existing RELs During the OSHA PEL Project

Appendix IV lists chemicals for which NIOSH revised existing RELs during the OSHA PEL Project. These chemicals are listed with their previous and current RELs.

Appendix V. Categories of Pesticides

Appendix V lists pesticides according to three categories of toxicity defined in the 1978 NIOSH criteria document on pesticides (*Criteria for a Recommended Standard: Occupational Exposure During the Manufacturing and Formulation of Pesticides*, DHEW (NIOSH) Publication No. 78-174, NTIS No. PB-81-227-001). Many of the chemicals listed as pesticides have other applications and are presented in Sections A and B.

SECTION A

DOCUMENTS CONTAINING NIOSH RECOMMENDATIONS FOR SAFETY AND HEALTH

This section lists all NIOSH documents that contain recommendations for safety and health standards in the workplace. These documents are listed by publication date under the occupational hazard they discuss. Each occupational hazard is arranged alphabetically.

2-Acetylaminofluorene

1973. Statement on Proposed Permanent Standard for Certain Carcinogens at OSHA Hearing before Administrative Law Judge Burton Sternberg, September 14, 1973. NTIS No. PB-87-220-950.

Acetylene

1976. Criteria for a Recommended Standard: Occupational Exposure to Acetylene. DHEW (NIOSH) Publication No. 76-195, NTIS No. PB-267-068.

Acrylamide

1991. NIOH and NIOSH basis for an occupational standard: Acrylamide: a review of the literature. DHHS (NIOSH) Publication No. 91-115.

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1976. Criteria for a Recommended Standard: Occupational Exposure to Acrylamide. DHEW (NIOSH) Publication No. 77-112, NTIS No. PB-273-871.

Acrylonitrile

1978. Public Hearing on Occupational Exposure to Acrylonitrile, March 1978. NTIS No. PB-87-222-865.

1978. Criteria for a Recommended Standard: Occupational Exposure to Acrylonitrile. DHEW (NIOSH) Publication No. 78-116, NTIS No. PB-81-225-617.

1977. Current Intelligence Bulletin 18: Acrylonitrile. In: NIOSH Current Intelligence Bulletin Reprints--Bulletins 1 thru 18 (1975-1977). DHEW (NIOSH) Publication No. 78-127, NTIS No. PB-81-225-617.

Air contaminants (MSHA)

1990. Comments on MSHA's Proposed Rule on Air Quality, Chemical Substances, and Respiratory Protection Standards, March 1, 1990. NTIS No. PB-91-173-997.

Air contaminants (OSHA)

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

Aldehydes

1991. Current Intelligence Bulletin 55: Carcinogenicity of Acetaldehyde and Malonaldehyde, and Mutagenicity of Related Low-Molecular-Weight Aldehydes. DHHS (NIOSH) Publication No. 91-112, NTIS No. PB-92-131-697.

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

Aldrin/dieldrin

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1978. Special Occupational Hazard Review for Aldrin/Dieldrin. DHEW (NIOSH) Publication No. 78-201, NTIS No. PB-297-769.

Alkanes

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1977. Criteria for a Recommended Standard: Occupational Exposure to Alkanes. DHEW (NIOSH) Publication No. 77-151, NTIS No. PB-273-817.

Allyl chloride

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1976. Criteria for a Recommended Standard: Occupational Exposure to Allyl Chloride. DHEW (NIOSH) Publication No. 76-204, NTIS No. PB-267-071.

4-Aminodiphenyl

1973. Statement on Proposed Permanent Standard for Certain Carcinogens at OSHA Hearing before Administrative Law Judge Burton Sternberg, September 14, 1973. NTIS No. PB-87-220-950.

Ammonia

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1974. Criteria for a Recommended Standard: Occupational Exposure to Ammonia. DHEW (NIOSH) Publication No. 74-136, NTIS No. PB-246-699.

Aniline

1990. NIOSH Alert: Request for Assistance in Preventing Bladder Cancer from Exposure to o-Toluidine and Aniline. DHHS (NIOSH) Publication No. 90-116, NTIS No. PB-91-188-953.

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

Animal waste pits

1990. NIOSH Alert: Request for Assistance in Preventing Deaths of Farm Workers in Manure Pits. DHHS (NIOSH) Publication No. 90-103, NTIS No. PB-90-242-033.

Antimony

1978. **Criteria for a Recommended Standard: Occupational Exposure to Antimony.** DHEW (NIOSH) Publication No. 78-216, NTIS No. PB-81-226-060.

Arsenic, inorganic

1982. **Testimony to the Department of Labor: Comments at the OSHA Arsenic Hearing, July 14, 1982.** NTIS No. PB-87-222-659.

1976. **Current Intelligence Bulletin 14: Inorganic Arsenic; Respiratory Protection.** In: NIOSH Current Intelligence Bulletin Reprints—Bulletins 1 thru 18 (1975-1977). DHEW (NIOSH) Publication No. 78-127, NTIS No. PB-83-105-080.

1976. **Testimony to the Department of Labor: Proposed Standard for Occupational Exposure to Inorganic Arsenic, September 8, 1976.** NTIS No. PB-90-130-071.

1975. **Criteria for a Recommended Standard: Occupational Exposure to Inorganic Arsenic (revised).** DHEW (NIOSH) Publication No. 75-149, NTIS No. PB-246-701.

1975. **Testimony to the Department of Labor: Statement on Proposed Standard for Occupational Exposure to Inorganic Arsenic, April 8, 1975.** NTIS No. PB-91-118-984.

1974. **Criteria for a Recommended Standard: Occupational Exposure to Inorganic Arsenic.** DHEW (NIOSH) Publication No. 74-110, NTIS No. PB-228-151.

Arsine

1979. **Current Intelligence Bulletin 32: Arsine (Arsenic Hydride) Poisoning in the Workplace.** DHEW (NIOSH) Publication No. 79-142, NTIS No. PB-85-119-139.

1975. **Criteria for a Recommended Standard: Occupational Exposure to Inorganic Arsenic (revised).** DHEW (NIOSH) Publication No. 75-149, NTIS No. PB-246-701.

Art materials (CPSC)

1991. **Comments on the Consumer Product Safety Commission's Proposed Rule on Labeling Requirements for Art Materials and Other Products, October 1, 1991.** NTIS No. PB-92-139-013.

Asbestos (EPA)

1989. **Comments on EPA's Proposed Rule Revision on Asbestos; NESHAP Revision, March 6, 1989.** NTIS No. PB-90-129-404.

1987. **Comments on EPA's Proposed Rule on Asbestos-Containing Materials in Schools, June 29, 1987.** NTIS No. PB-91-169-003.

1985. **Comments to the Environmental Protection Agency: EPA Proposed Rule; Asbestos Abatement Projects, August 1985.** NTIS No. PB-91-152-777.

Asbestos (OSHA)

1991. **Post-Hearing Comments on OSHA's Proposed Rule on Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite, April 26, 1991.** NTIS No. PB-92-136-043.

1991. **Testimony on OSHA's Proposed Rule on Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite, January 24, 1991.** NTIS No. PB-92-139-088.

1990. Post-Hearing Comments on OSHA's Notice of Proposed Rulemaking on Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite, December 14, 1990. NTIS No. PB-91-212-514.

1990. Testimony on OSHA's Notice of Proposed Rulemaking on Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite, May 9, 1990. NTIS No. PB-91-152-439.

1990. Congressional Testimony before the Subcommittee on Toxic Substances; Environmental Oversight, Research and Development Committee on Environmental and Public Works, U.S. House of Representatives, April 26, 1990. NTIS No. PB-91-132-852.

1990. Comments on OSHA's Notice of Proposed Rulemaking on Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite, April 9, 1990. NTIS No. PB-91-152-413.

1987. Comments to the Department of Labor Stating the NIOSH Position on the Newly Promulgated OSHA Standard, December 1, 1987. NTIS No. PB-90-129-370.

1986. Comments to the Department of Labor Stating the NIOSH Definition of Asbestos, July 17, 1986. NTIS No. PB-90-130-048.

1984. Testimony to the Department of Labor: Occupational Exposure to Asbestos, June 21, 1984. NTIS No. PB-87-222-642.

1984. Congressional Testimony: Subcommittee on Public Building and Grounds, Committee on Public Works and Grounds, Committee on Public Works and Transportation, U.S. House of Representatives, March 21, 1984. NTIS No. PB-90-179-128.

1980. NIOSH/OSHA Asbestos Work Group Recommendations: Workplace Exposure to Asbestos; Review and Recommendations. DHHS (NIOSH) Publication No. 81-103, NTIS No. PB-83-176-677.

1980. Congressional Testimony: Subcommittee on Coast Guard and Navigation, House Committee on Merchant Marine and Fisheries, February 12, 1980. NTIS No. PB-90-192-964.

1979. Congressional Testimony before the Subcommittee on Labor Standards, House Committee on Education and Labor, May 1, 1979. NTIS No. PB-90-130-063.

1976. Revised Recommended Asbestos Standard. DHEW (NIOSH) Publication No. 77-169, NTIS No. PB-273-965.

1975. Current Intelligence Bulletin 5: Asbestos. In: NIOSH Current Intelligence Bulletin Reprints—Bulletins 1 thru 18 (1975-1977). DHEW (NIOSH) Publication No. 78-127, NTIS No. PB-83-105-080 .

1972. Criteria for a Recommended Standard: Occupational Exposure to Asbestos. DHEW (NIOSH) Publication No. HSM 72-10267, NTIS No. PB-209-510.

Asphalt fumes

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1982. Comments to OSHA on Coal Tar Pitch Volatiles Proposed Rule: Notice of Intention to Modify Interpretation, August 26, 1982. NTIS No. PB-90-193-723.

1977. Criteria for a Recommended Standard: Occupational Exposure to Asphalt Fumes. DHEW (NIOSH) Publication No. 78-106, NTIS No. PB-277-333.

Azides, explosive

1976. Current Intelligence Bulletin 13: Explosive Azide Hazard. In: NIOSH Current Intelligence Bulletin Reprints—Bulletins 1 thru 18 (1975-1977). DHEW (NIOSH) Publication No. 78-127, NTIS No. PB-83-105-080.

Benzene

1990. Comments to the Coast Guard: Notice of Proposed Rulemaking on Benzene, May 7, 1990. NTIS No. PB-91-152-058.

1986. Comments on OSHA's Proposed Rule: Occupational Exposure to Benzene, March 1986. NTIS No. PB-90-132-606.

1986. Testimony on OSHA's Proposed Rule: Occupational Exposure to Benzene. Presented at the OSHA Informal Public Hearing, March 20, 1986. NTIS No. PB-87-222-667.

1986. Post-Hearing Comments on OSHA's Proposed Rule: Occupational Exposure to Benzene, March 1986. NTIS No. PB-90-132-614.

1985. Comments to OSHA and EPA on Benzene, August 9, 1985. NTIS No. PB-90-153-776.

1977. Statement before the Department of Labor, Occupational Safety and Health Administration: Public Hearing on Occupational Standard for Benzene, July 25-26, 1977. NTIS No. PB-87-220-943.

1976. Revised Recommendation for an Occupational Exposure Standard for Benzene, August 1976. NTIS No. PB-83-196-196.

1974. Criteria for a Recommended Standard: Occupational Exposure to Benzene, July 1974. DHEW (NIOSH) Publication No. 74-137, NTIS No. PB-246-700.

Benzidine

1973. Statement on Proposed Permanent Standard for Certain Carcinogens at OSHA Hearing before Administrative Law Judge Burton Sternberg, September 14, 1973. NTIS No. PB-87-220-950.

Benzidine-based dyes

1983. Preventing Health Hazards from Exposure to Benzidine Congener Dyes, January 1983. DHHS (NIOSH) Publication No. 83-105, NTIS No. PB-83-195-305.

1980. OSHA/NIOSH Health Hazard Alert; Benzidine-, o-Tolidine- and o-Dianisidine-Based Dyes, December 1980. DHHS (NIOSH) Publication No. 81-106, NTIS No. PB-87-148-219.

1980. Special Occupational Hazard Review for Benzidine-Based Dyes, January 1980. DHEW (NIOSH) Publication No. 80-109, NTIS No. PB-81-225-633.

1978. **Current Intelligence Bulletin 24: Direct Blue 6, Direct Black 38, Direct Brown 95, Benzidine Derived Dyes.** DHEW (NIOSH) Publication No. 78-148, NTIS No. PB-85-119-220.

Benzoyl peroxide

1977. **Criteria for a Recommended Standard: Occupational Exposure to Benzoyl Peroxide.** DHEW (NIOSH) Publication No. 77-166, NTIS No. PB-273-819.

Benzyl chloride

1978. **Criteria for a Recommended Standard: Occupational Exposure to Benzyl Chloride.** DHEW (NIOSH) Publication No. 78-182, NTIS No. PB-81-226-698.

Beryllium

1988. **Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988.** NTIS No. PB-91-115-337.

1977. **Public Hearing on Occupational Standard for Beryllium, August 19, 1977.** NTIS No. PB-83-182-378.

1975. **Comments to OSHA: Updating the Criteria Document, December 10, 1975.** NTIS No. PB-90-192-314.

1972. **Criteria for a Recommended Standard: Occupational Exposure to Beryllium.** DHEW (NIOSH) Publication No. 72-10268, NTIS No. PB-210-806.

Biotechnology

1989. **Comments on EPA's Request for Comment on Regulatory Approach of Biotechnology, May 15, 1989.** NTIS No. PB-90-162-421.

1989. **Comments on EPA's Request for Comment on Regulatory Approach of Microbial Pesticides, May 15, 1989.** NTIS No. PB-90-162-355.

1985. **Comments on OSHA's Guidelines on Biotechnology, August 1985.** NTIS No. PB-90-131-889.

Bloodborne diseases

1990. **Post-Hearing Brief on OSHA's Proposed Rule on Occupational Exposure to Bloodborne Pathogens, May 21, 1990.** NTIS No. PB-91-153-643.

1990. **Post-Hearing Comments on OSHA's Proposed Rule on Occupational Exposure to Bloodborne Pathogens, April 19, 1990.** NTIS No. PB-91-152-199.

1989. **Testimony on OSHA's Proposed Rule on Occupational Exposure to Bloodborne Pathogens, September 12, 1989.** NTIS No. PB-91-169-482, PB-91-169-581.

1989. **Comments on OSHA's Proposed Rule and Notice of Hearing on Occupational Exposure to Bloodborne Pathogens, August 14, 1989.** NTIS No. PB-90-161-969.

1989. **Guidelines for Prevention of Transmission of Human Immunodeficiency Virus and Hepatitis B Virus to Health-Care and Public-Safety Workers, February 1989.** DHHS (NIOSH) Publication No. 89-107, NTIS No. PB-89-214-670.

1989. A Curriculum Guide for Public-Safety and Emergency-Response Workers: Prevention of Transmission of Human Immunodeficiency Virus and Hepatitis B Virus, February 1989. DHHS (NIOSH) Publication No. 89-108, NTIS No. PB-89-227-854.

1988. Comments on OSHA's Advance Notice of Proposed Rulemaking on Occupational Exposure to Hepatitis B Virus and Human Immunodeficiency Virus, January 26, 1988. NTIS No. PB-90-133-117.

Boron trifluoride

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1976. Criteria for a Recommended Standard: Occupational Exposure to Boron Trifluoride. DHEW (NIOSH) Publication No. 77-122, NTIS No. PB-274-747.

Brakes

1988. Post-Hearing Comments on MSHA's Proposed Rule on Automatic Emergency-Parking Brakes for Rubber-Tired, Self-Propelled Electric Face Equipment, August 29, 1988. NTIS No. PB-90-132-630.

1988. Testimony on MSHA's Proposed Rule on Automatic Emergency-Parking Brakes for Rubber-Tired, Self-Propelled Electric Face Equipment, July 12, 1988. NTIS No. 89-121-214.

1988. Comments on MSHA's Proposed Rule on Automatic Emergency-Parking Brakes for Rubber-Tired, Self-Propelled Electric Face Equipment, April 29, 1988. NTIS No. PB-90-132-622.

1,3-Butadiene

1991. Post-Hearing Comments on OSHA's Proposed Rule on Occupational Exposure to 1,3-Butadiene, September 27, 1991. NTIS No. PB-92-135-979.

1991. NIOSH Risk Assessment: A Quantitative Assessment of the Risk of Cancer Associated with Exposure to 1,3-Butadiene Based on a Low Dose Inhalation Study in B6C3F₁ Mice. NTIS No. PB-92-136-159.

1991. Testimony on OSHA's Proposed Rule on Occupational Exposure to 1,3-Butadiene, January 17, 1991. NTIS No. PB-91-212-654.

1990. Comments on OSHA's Proposed Rule on Occupational Exposure to 1,3-Butadiene, November 9, 1990. NTIS No. PB-91-173-799.

1986. Comments on OSHA's Advance Notice of Proposed Rulemaking on Occupational Exposure to 1,3-Butadiene, December 1986. NTIS No. PB-91-152-850.

1986. Comments on OSHA's Request for Comments on Occupational Exposure to 1,3-Butadiene, January 1986. NTIS No. PB-91-152-280.

1984. Current Intelligence Bulletin 41: 1,3-Butadiene. DHHS (NIOSH) Publication No. 84-105, NTIS No. PB-84-198-019.

Cadmium

1990. Post-Hearing Comments to OSHA on Occupational Exposure to Cadmium, October 18, 1990. NTIS No. PB-92-135-953.

1990. Post-Hearing Comments on OSHA's Proposed Rule on Exposure to Cadmium, September 18, 1990. NTIS No. PB-91-173-609.

1990. NIOSH Risk Assessment: A Dose-Response Analysis and Quantitative Assessment of Lung Cancer Risk and Occupational Cadmium Exposure. Available from NTIS.

1990. Testimony on OSHA's Proposed Rule on Occupational Exposure to Cadmium, July 17, 1990. NTIS No. PB-91-151-704.

1990. Comments to the Department of Labor: Proposed Rule on Occupational Exposure to Cadmium, May 7, 1990. NTIS No. PB-91-152-405.

1984. Current Intelligence Bulletin 42: Cadmium. DHHS (NIOSH) Publication No. 84-116, NTIS No. PB-85-178-721.

1976. Criteria for a Recommended Standard: Occupational Exposure to Cadmium. DHEW (NIOSH) Publication No. 76-192, NTIS No. PB-274-237.

Carbaryl

1976. Criteria for a Recommended Standard: Occupational Exposure to Carbaryl. DHEW (NIOSH) Publication No. 77-107, NTIS No. PB-273-801.

Carbon black

1978. Criteria for a Recommended Standard: Occupational Exposure to Carbon Black. DHEW (NIOSH) Publication No. 78-204, NTIS No. PB-81-225-625.

Carbon dioxide

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1976. Criteria for a Recommended Standard: Occupational Exposure to Carbon Dioxide. DHEW (NIOSH) Publication No. 76-194, NTIS No. PB-266-597.

Carbon disulfide

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1977. Criteria for a Recommended Standard: Occupational Exposure to Carbon Disulfide. DHEW (NIOSH) Publication No. 77-156, NTIS No. PB-274-199.

Carbon monoxide

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1984. Mini-Alert: Request for Assistance in Controlling Carbon Monoxide Hazard in Aircraft Refueling Operations. DHHS (NIOSH) Publication No. 84-106, NTIS No. PB-84-240-183.

1972. **Criteria for a Recommended Standard: Occupational Exposure to Carbon Monoxide.** DHEW (NIOSH) Publication No. 73-11000, NTIS No. PB-212-629.

Carbon tetrachloride

1988. **Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988.** NTIS No. PB-91-115-337.

1976. **Revised Recommended Carbon Tetrachloride Standard.** NTIS No. PB-83-196-436.

1975. **Criteria for a Recommended Standard: Occupational Exposure to Carbon Tetrachloride.** DHEW (NIOSH) Publication No. 76-133, NTIS No. PB-250-424.

Carcinogen policy

1982. **Comments to OSHA on Identification, Classification and Regulation of Potential Occupational Carcinogens, April 5, 1982.** NTIS No. PB-90-153-318.

1981. **Congressional Testimony: Subcommittee on Labor Standards, House Committee on Education and Labor, April 9, 1981.** NTIS No. PB-90-194-465.

1978. **Testimony to OSHA: Proposed Rulemaking on Identification, Classification and Regulation of Toxic Substances Posing a Potential Occupational Carcinogenic Risk, June 1978.** NTIS No. PB-90-153-826.

Carcinogens (OSHA 13)

1973. **Statement on Proposed Permanent Standard for Certain Carcinogens at OSHA Hearing before Administrative Law Judge Burton Sternberg, September 14, 1973.** NTIS No. PB-87-220-950.

1973. **Comments to OSHA on the Emergency Temporary Standard for Carcinogens, April 18, 1973.** NTIS No. PB-90-153-784.

1973. **Hazard Reviews for 13 Potential Occupational Carcinogens.** These are included in the September 1973 testimony.

Carpal tunnel syndrome

1984. **Congressional Testimony before the Subcommittee on Postal Personnel and Modernization, Committee on Post Office and Civil Service. U.S. House of Representatives, June 8, 1984.** NTIS No. PB-90-153-792.

Carpet layer's knee

1990. **NIOSH Alert: Request for Assistance in Preventing Knee Injuries and Disorders in Carpet Layers.** DHHS (NIOSH) Publication No. 90-104, NTIS No. PB-90-242-025.

Chemical process safety

1991. **Post-Hearing Comments on OSHA's Notice of Proposed Rule on Process Safety Management of Highly Hazardous Chemicals, May 6, 1991.** NTIS No. PB-92-136-946.

1990. **Testimony on OSHA's Proposed Rule on Process Safety Management of Highly Hazardous Chemicals, November 27, 1990.** NTIS No. PB-91-173-856.

1990. **Comments on OSHA's Proposed Rule on Process Safety Management of Highly Hazardous Chemicals, October 15, 1990.** NTIS No. PB-91-173-864.

Chlorine

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1976. Criteria for a Recommended Standard: Occupational Exposure to Chlorine. DHEW (NIOSH) Publication No. 76-170, NTIS No. PB-266-367.

Chloroethanes

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1978. Current Intelligence Bulletin 27: Chloroethanes; Review of Toxicity. DHEW (NIOSH) Publication No. 78-181, NTIS No. PB-85-119-196.

Chloroform

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1976. Revised Recommended Chloroform Standard. NTIS No. PB-83-195-859.

1976. Current Intelligence Bulletin 9: Chloroform. DHEW (NIOSH) Publication No. 78-127, NTIS No. PB-83-105-080.

1974. Criteria for a Recommended Standard: Occupational Exposure to Chloroform. DHEW (NIOSH) Publication No. 75-114, NTIS No. PB-246-695.

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1973. Statement on Proposed Permanent Standard for Certain Carcinogens at OSHA Hearing before Administrative Law Judge Burton Sternberg, September 14, 1973. NTIS No. PB-87-220-950.

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1976. Current Intelligence Bulletin 11: Dimethylcarbamoyl Chloride (DMCC) (revised). In: NIOSH Current Intelligence Bulletin Reprints—Bulletins 1 thru 18 (1975-1977). DHEW (NIOSH) Publication No. 78-127, NTIS No. PB-83-105-080.

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1990. NIOSH Alert: Request for Assistance in Preventing Adverse Health Effects from Exposure to Dimethylformamide (DMF). DHHS (NIOSH) Publication No. 90-105, NTIS No. PB-91-152-710.

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Ethylene dichloride

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1978. Revised Criteria for a Recommended Standard: Occupational Exposure to Ethylene Dichloride. DHEW (NIOSH) Publication No. 78-211, NTIS No. PB-80-176-092.

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Ethylene glycol monobutyl ether/ethylene glycol monobutyl ether acetate (see Glycol ethers)

Ethylene glycol monoethyl ether/ethylene glycol monoethyl ether acetate (see Glycol ethers)

Ethylene glycol monomethyl ether/ethylene glycol monomethyl ether acetate (see Glycol ethers)

Ethyleneimine

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Ethylene oxide

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1985. Comments to OSHA on a Short-Term Exposure Limit for Ethylene Oxide, September 26, 1985. NTIS No. PB-91-135-137.

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1988. Testimony on OSHA's Public Hearing on Safety Standards for Excavations in the Construction Industry, April 19, 1988. NTIS No. PB-91-152-256.

1987. Comments to OSHA on the Proposed Rule on Occupational Safety and Health Standards: Excavations, June 15, 1987. NTIS No. PB-91-152-397.

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Explosives

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1989. Comments to the Department of Labor on EPA's Request for Comments: Notice on Proposed Guidelines for Exposure-Related Measurements, March 2, 1989. NTIS No. PB-91-152-223.

Fall protection

1987. Comments on OSHA's Notice of Proposed Rulemaking on Safety Standards for Fall Protection in the Construction Industry, February 25, 1987. NTIS No. PB-91-152-389.

Fibrous glass (see Synthetic vitreous fibers)

Field sanitation

1984. Testimony on OSHA Proposed Rule Field Sanitation, May 23-24, 1984. NTIS No. PB-91-152-264.

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1979. Testimony at the OSHA Informal Hearing on Proposed Occupational Safety and Health Standards for Fire Brigades, August 28, 1979. NTIS No. PB-91-153-668.

Fluorides, inorganic

1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

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Formaldehyde

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1987. **Comments to OSHA Regarding Occupational Exposure to Formaldehyde, February 9, 1987.** NTIS No. PB-91-152-207.

1986. **Post-Hearing Comments to OSHA Following the Regulatory Hearing on Formaldehyde, August 14, 1986.** NTIS No. PB-91-212-688.

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1985. **Comments to OSHA on Advance Notice of Proposed Rulemaking: Occupational Exposure to Formaldehyde, July 30, 1985.** NTIS No. PB-91-152-587.

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Freon

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Grain dust

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1976. Criteria for a Recommended Standard: Occupational Exposure to Methyl Parathion. DHEW (NIOSH) Publication No. 77-106, NTIS No. PB-274-191.

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1977. Criteria for a Recommended Standard: Occupational Exposure to Inorganic Nickel. DHEW (NIOSH) Publication No. 77-164, NTIS No. PB-274-201.

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1978. Criteria for a Recommended Standard: Occupational Exposure to Nitriles. DHEW (NIOSH) Publication No. 78-212, NTIS No. PB-81-225-534.

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1978. Criteria for a Recommended Standard: Occupational Exposure to Nitroglycerin and Ethylene Glycol Dinitrate. DHEW (NIOSH) Publication No. 78-167, NTIS No. PB-81-225-526.

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1984. Testimony on OSHA Proposed Rule on Oil and Gas Well Drilling and Servicing, July 24-26, 1984. NTIS No. PB-87-222-840.

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1976. Criteria for a Recommended Standard: Occupational Exposure to Organotin Compounds. DHEW (NIOSH) Publication No. 77-115, NTIS No. PB-274-766.

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1988. Testimony on OSHA's Proposed Rule on Air Contaminants, August 1, 1988. NTIS No. PB-91-115-337.

1976. Criteria for a Recommended Standard: Occupational Exposure to Oxides of Nitrogen. DHEW (NIOSH) Publication No. 76-149, NTIS No. PB-81-226-995.

Paint and allied coatings manufacture

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1989. Comments on MSHA's Proposed Rule on Pattern of Violations, August 30, 1989. NTIS No. PB-91-169-177.

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1987. Comments on the EPA's Proposed Rule on Polychlorinated Biphenyls in Electrical Transformers, October 2, 1987. NTIS No. PB-91-169-029.

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1976. Current Intelligence Bulletin 7: Polychlorinated Biphenyls (PCB's). In: NIOSH Current Intelligence Bulletin Reprints—Bulletins 1 thru 18 (1975-1977). DHEW (NIOSH) Publication No. 78-127, NTIS No. PB-83-105-080.

Polynuclear aromatic hydrocarbons (PAH's)

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1988. Post-Hearing Comments on MSHA's Proposed Rule: Ionizing Radiation Standards for Metal and Nonmetal Mines, February 26, 1988. NTIS No. PB-91-169-516.

1987. Criteria for a Recommended Standard: Occupational Exposure to Radon Progeny in Underground Mines. DHHS (NIOSH) Publication No. 88-101, NTIS No. PB-88-173-455.

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Radiation, nonionizing

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1981. Congressional Testimony before the Subcommittee on Investigations and Oversight, House Committee on Science and Technology, May 13, 1981. NTIS No. PB-91-120-485.

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