

CDC

Workplace
Safety and Health

PB2003-102829



Includes information about

- Web sites
- Toll-free telephone numbers
- Free publications
- Training resources for owners & employees
- Resources for onsite consultations

Safety and Health Resource Guide for Small Businesses



DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health

NIOSH

October 2002

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NATIONAL TECHNICAL INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE

Mission Statement

Delivering

on the

Nation's

promise:

Safety and

health at work

for all people

through

research and

prevention

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ABOUT NIOSH

The National Institute for Occupational Safety and Health (NIOSH) is the Federal agency that conducts research and makes recommendations to prevent work-related illness and injury. NIOSH works with industries, labor organizations, and universities to understand and improve worker safety and health.

NIOSH is often confused with OSHA (the Occupational Safety and Health Administration). However, NIOSH and OSHA are separate agencies with different functions. NIOSH is a research agency in the U.S. Department of Health and Human Services. OSHA is a regulatory agency in the U.S. Department of Labor.

For information and publications about occupational hazards, please contact NIOSH at

Toll-free telephone:	1-800-35-NIOSH (1-800-356-4674)
Fax directory:	1-888-CDC-FAXX (1-888-232-3299)
Web site:	www.cdc.gov/niosh
E-mail:	pubstaff@cdc.gov

PURPOSE OF THIS DOCUMENT

This Guide is intended to help small business owners, employers, and managers deal with occupational safety and health concerns. Others involved with the small business community may also benefit from using this resource. This guide contains telephone numbers, e-mail and Internet addresses, and mailing information that will connect small businesses to government agencies, private organizations, consultants, and others who can help with occupational safety and health issues.

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I. INTRODUCTION

Frequently, small businesses do not have the in-house capacity or other resources to address safety and health concerns in the workplace. To help small business owners, employers, and managers deal with these concerns, the National Institute for Occupational Safety and Health (NIOSH) has developed this *Safety and Health Resource Guide for Small Businesses*. The guide contains telephone numbers, e-mail and Internet addresses, and mailing information that will connect small businesses to the government agencies, private organizations, consultants, and others who can help them with occupational safety and health issues.

II. WHAT IS A SMALL BUSINESS?

For the purposes of this document, NIOSH considers a small business establishment to be one with fewer than 100 employees at a single site. The success of small businesses relies partly on their small scale, which enables them to operate effectively with limited resources, respond quickly to demands for products and services, and interact with clients, employees, and vendors on a personal level.

Why focus on small businesses?

NIOSH recognizes that small businesses can benefit from additional information about protecting the safety and health of their employees. The number of small businesses is expected to increase, and the U.S. workforce is predicted to grow to an estimated 147 million by the year 2005. In focusing on the important contributions of small businesses in the United States, Federal agencies have begun to develop programs that provide services and assistance to small businesses. Most of the agencies and organizations that provide occupational safety and health assistance and publications are included in this document.

Examples of Federal programs and legislation include the following:

- The Occupational Safety and Health Administration (OSHA) programs in consultation, voluntary protection, and expert advisor materials
- The Department of Labor Office of Small Business Program's *One Stop Approach to Providing Information on Enforcement Programs Which Apply to Small Business*
- The Small Business Administration's Office of Advocacy programs to provide financial assistance and information for small businesses
- The Small Business Regulatory Enforcement Fairness Act of 1996

These and other programs reflect a commitment to ensure that small businesses remain productive and safe.

The best opportunity to prevent illness and injury in small business industries is for the owners, managers, and employees to identify and understand the hazards and risks that workers might encounter on the job. This guide provides many sources of free information to help reduce and prevent threats to worker safety and health.

Numbers of workers in small businesses

More than half of all U.S. employees in private industry work in small business establishments with fewer than 100 employees (see Figure 1). Furthermore, nearly 98% of all private industry establishments in the United States have fewer than 100 employees. Of these, roughly 87% have fewer than 20 employees.

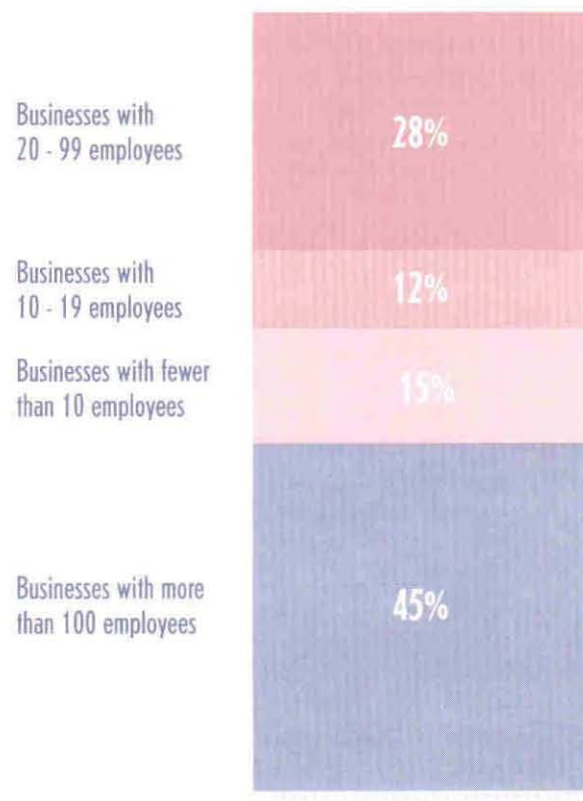


Figure 1.

Percentage of U.S. private industry employees working in business establishments of various sizes. (Source: U.S. Department of Commerce, Bureau of the Census, County Business Patterns 1994, CBP-94-1.)

Safety and health challenges for small businesses

In small businesses, injuries and illnesses can exact a hefty toll. For a small business owner operating independently, the magnitude of the problem may not be apparent. However, a government survey of U.S. businesses in 1994-1995 found that workplaces with 10 or fewer employees experience about one-third of all work-related deaths, although they only employ 15% of all workers in private industry.

Small businesses often operate as a family, with concern for protecting each employee from harm at work. Yet, because of their size, these businesses frequently lack the services of occupational safety and health professionals who can identify and prevent hazards. In addition, small businesses have been traditionally underserved by occupational safety and health initiatives. Instead, many safety and health regulations and enforcement efforts designed to protect employees from hazards have focused on large employers.

As a result, safety and health issues may be more readily resolved in large businesses by complying with standards and using additional resources. Smaller businesses may be unable to recognize hazards as readily and may therefore be unable to find information about work-related hazards or develop solutions.

Costs of work-related injuries and illnesses

For all businesses in the United States, work-related injuries and illnesses cost an estimated \$171 billion each year. This figure does not address the pain and suffering caused to workers and their families.

For small businesses, the average cost for an employee injury or illness varies by industry – for some small businesses the average cost is roughly \$300. The highest-risk small business industries average up to \$5,700 per employee injury or illness.

HOW TO RESEARCH A PROBLEM

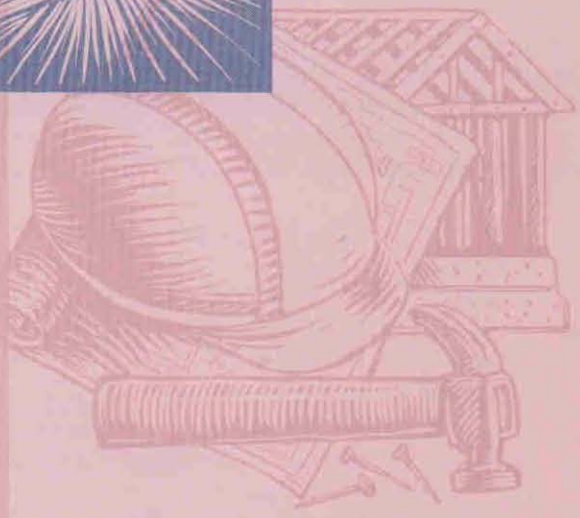
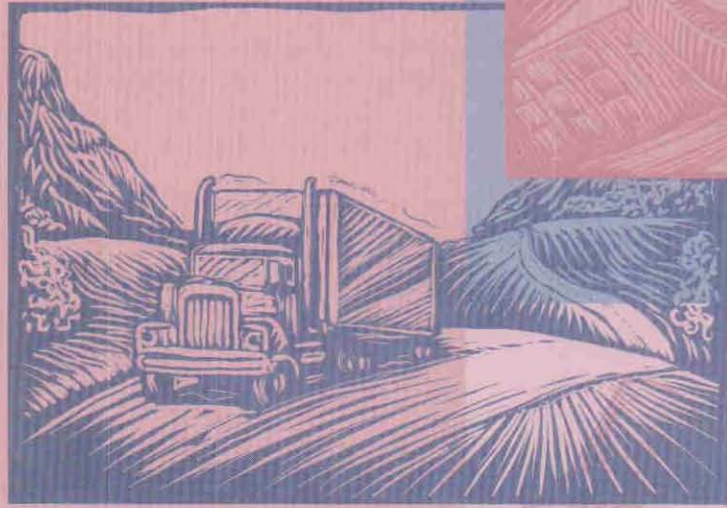
QUESTION

I manage a small printing plant and we recently changed one of our inks. A press operator says that she is having an allergic skin reaction to this new ink. How and where can I get more information?

ANSWERS

1. Contact the manufacturer or supplier of the ink and inquire as to whether they have received similar complaints about this ink or whether they have special recommendations for how to use it safely. Request a copy of the material safety data sheet (MSDS) from them.
2. Call the NIOSH 800-number with the names of the chemicals in the ink (found on the MSDS) for additional information. Refer the employee to an Occupational Medicine Specialist for evaluation.

Services Offered by NIOSH to Small Businesses





NIOSH Resources

CONTACT INFORMATION

NIOSH provides several services for small businesses. These services include a wide selection of easy-to-read worker safety and health publications and information specialists who can provide in-depth responses to a variety of workplace safety and health concerns.

Web site:	www.cdc.gov/niosh
E-mail:	pubstaft@cdc.gov
Toll-free telephone:	1-800-35-NIOSH (1-800-356-4674)
NIOSH fax directory:	1-888-CDC-FAXX (1-888-232-3299)

In addition to the above, the NIOSH Office for Mine Safety and Health Research conducts objective studies, research, experiments, and demonstrations related to the mining and minerals sector in the area of worker safety, worker health, and disaster prevention. A Common Information Service System (CISS) searchable database is at their Web site.

Web site:	outside.cdc.gov:8000/ciss/Welcome.html
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NIOSH PUBLICATIONS

Summary Fact Sheets

These fact sheets are available through the NIOSH 800 number and are brief documents (generally 1 to 4 pages) describing occupational hazards or NIOSH research activities. The following NIOSH sheets are available from the CDC Fax Information Service. To request that a document be faxed to you, call 1-888-CDC-FAXX (1-888-232-3299) and follow the prompts, using the 6-digit document number listed below:

Agriculture Safety and Health (3 pages)	705030
Back Belts (1 page)	705004
Carpal Tunnel Syndrome (2 pages)	705001
Construction Safety and Health (3 pages)	705031
EMFs in the Workplace (3 pages)	705008
Hazards of Flood Cleanup Work (5 pages)	705032
Health and Safety for Kids on the Farm (2 pages)	705025
Indoor Environmental (Air) Quality (3 pages)	705002
Latex Allergy (2 pages)	705006
Mine Safety and Health (3 pages)	705033
Preventing Silicosis (2 pages)	760026
Violence in the Workplace (2 pages)	705003
Work-Related Musculoskeletal Disorders (3 pages)	705005
Working in Hot Environments (7 pages)	705007

Alerts

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. NIOSH has published more than 40 Alerts on a variety of topics; see the Appendix. Topics include the following:

- Allergic Reactions to Natural Rubber Latex
- Carbon Monoxide Poisoning
- Confined Spaces
- Falls from Suspension Scaffolds
- Lead Poisoning in Construction Workers
- Preventing Homicide in the Workplace
- Preventing Injuries and Deaths of Loggers
- Traffic-Related Motor Vehicle Crashes

Alerts are available free from NIOSH:

By mail: Publications Dissemination, EID
National Institute for Occupational Safety and Health (C-18)
4676 Columbia Pkwy.
Cincinnati, OH 45226-1998

Toll-free telephone: 1-800-35-NIOSH (1-800-356-4674)
Fax: 1-513-533-8573
Web site: www.cdc.gov/niosh

NIOSH Pocket Guide to Chemical Hazards

This Guide is a source of general industrial hygiene information for workers, employers, and occupational health professionals. It presents key information and data in abbreviated tabular form for 677 chemicals or substance groups that are found in many work environments. Copies of the latest edition of the printed and CD-ROM versions of the NIOSH Pocket Guide to Chemical Hazards are available for purchase from the Government Printing Office.

By mail: U.S. Government Printing Office
Superintendent of Documents
P.O. Box 371954
Pittsburgh, PA 15250-7954

Telephone: 1-202-512-1800
Web site: www.cdc.gov/niosh/npg/npg.html

Chemical Safety Cards

International Chemical Safety Cards summarize essential safety and health information about chemicals for their use at the “shop floor” level by workers and employers. They are simpler than material safety data sheets (MSDSs) and designed specifically for workers’ reference. The cards are available free from NIOSH.

Web site: www.cdc.gov/niosh/ipcs/ipscard.html

Or they may be purchased from the National Technical Information Service:

By mail: National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161

Toll free telephone: 1-800-553-6847
Web site: www.ntis.gov

Other Publications

NIOSH also publishes a series of Updates, Hazard Controls, Hazard IDs, and Current Intelligence Bulletins. A description of each of these types of publications is listed in the Appendix.

TRAINING

NIOSH supports 16 university-based Education and Research Centers that offer short-term continuing education for occupational safety and health professionals and others with worker safety and health responsibilities.

Alabama

Deep South Center for Occupational Health and Safety
University of Alabama at Birmingham
530B Ryals Public Health Building
1530 3rd Ave., South
Birmingham, AL 35294-0022
Telephone: 1-205-934-7178
Web site: www.uab.edu/dsc

California

Center for Occupational and Environmental Health, CE Program
University of California, Berkeley
2223 Fulton Street, 2nd floor
Berkeley, CA 94720-5120
Telephone: 1-510-643-7277
Web site: socrates.berkeley.edu/~coehce

Southern California Education and Research Center
University of Southern California
School of Public Health
Room 56-071, 650 Charles E. Young Drive South
Los Angeles, CA 90095-1772
Telephone: 1-310-206-2304
E-mail: niosherc@ucla.edu
Web site: www.ph.ucla.edu/coeh

Florida

South Florida (Sunshine) Education and Research Center
College of Public Health
University of South Florida, MDC56
13201 Bruce B. Downs Blvd.
Tampa, FL 33612-3805
Telephone: 1-813-974-6624
Web site: www.hsc.usf.edu/erc

Illinois

Great Lakes Center for Occupational and Environmental Safety and Health
Continuing Education at the Great Lakes Center
School of Public Health
2121 West Taylor St., Room 216B
Chicago, IL 60612-7260
Telephone: 1-312-996-6904
Web site: www.uic.edu/sph/glakes

Iowa

Department of Occupational and Environmental Health
College of Public Health
University of Iowa
100 Oakdale Campus-108 IREH
Iowa City, IA 52242-5000
Telephone: 1-319-335-4429
E-mail: nancy-sprince@uiowa.edu

Maryland

Johns Hopkins Education and Research Center
School of Hygiene and Public Health
The Johns Hopkins University
615 North Wolfe St., Room 6001
Baltimore, MD 21205
Telephone: 1-410-955-0423
Web site: www.jhsph.edu/~c-erc
E-mail: dzerbe@jhsph.edu

Massachusetts

Harvard Education and Research Center
Harvard School of Public Health
677 Huntington Ave.
Boston, MA 02115-6096
Telephone: 1-617-432-1171
Web site: www.hsph.harvard.edu/erc

Michigan

Center for Occupational Health and Safety Engineering
University of Michigan
1205 Beal, IOE Bldg.
Ann Arbor, MI 48109-2117
Telephone: 1-734-936-0148
Web site: www.engin.umich.edu/dept/ioc/COHSE/

Minnesota

Center for Public Health Education and Outreach
University of Minnesota
School of Public Health
2221 University Avenue SE
Suite 350
Minneapolis, MN 55414
Telephone: 1-612-626-4515
Web site: www.umn.edu/mcohs

New York/New Jersey

UMDNJ-School of Public Health
Office of Public Health Practice
Plaza II, Suite 203
317 George Street
New Brunswick, NJ 08901-2008
Telephone: 1-732-235-9450
Web site: www.cohsi.rutgers.edu/cet
E-mail: cet-ophp@umdnj.edu

North Carolina

North Carolina Education and Research Center
University of North Carolina at Chapel Hill
3300 Hwy. 54 West
Chapel Hill, NC 27516-8264
Telephone: 1-919-962-7579
Web site: www.sph.unc.edu/osherc/
E-mail: larry_hyde@unc.edu

Ohio

University of Cincinnati Education and Research Center
Department of Environmental Health
PO Box 670567
Cincinnati, OH 45267-0567
Toll-free telephone: 1-800-207-9399
Web site: www.uc.edu/www/envhealth/conted/
E-mail: jarreljl@email.uc.edu

Texas

Southwest Center for Occupational and Environmental Health
University of Texas - Houston School of Public Health
P.O. Box 20186, RAS 1040
Houston, Texas 77225-0186
Telephone: 1-713-500-9463
Web site: www.sph.uth.tmc.edu:8052/swcoeh.htm
E-mail: abradford@sph.uth.tmc.edu

Utah

Rocky Mountain Center for Occupational and Environmental Health
University of Utah
75 South 2000 East
Salt Lake City, UT 84112-5710
Telephone: 1-801-581-4055
Web site: www.rmcoeh.utah.edu

Washington

Northwest Center for Occupational Health and Safety
University of Washington
4225 Roosevelt Way N.E., Suite 100
Seattle, WA 98105-6099
Telephone: 1-206-543-1069
Web site: depts.washington.edu/envhlth/
E-mail: ce@u.washington.edu

NIOSH VIDEOTAPES

NIOSH has produced a number of videotape training programs. All NIOSH video programs can be borrowed and copied free of charge. Your only expense is return postage.

By mail: National Institute for Occupational Safety and Health
NIOSH – TV, C12
4676 Columbia Pkwy.
Cincinnati, OH 45226-1998

Fax: 1-513-533-8560

Examples of available video titles include the following:

- Protecting Workers in **Auto Body Shops**, 7 minutes, NIOSH Video No. 155
- Plain Talk About a Serious Problem . . . **Silicosis**, 18 minutes, NIOSH Video No. 156
- Control of Nitrous Oxide in **Dental** Operatories, 9 minutes, NIOSH Video No. 157
- As It Should Be Done (Workplace Precautions Against **Bloodborne Pathogens**), 25 minutes, NIOSH Video No. 170
- **Asbestos:** What You Don't See (for removal contractors), 15 minutes, NIOSH Video No. 175
- **Hand-Arm Vibration** Syndrome, 25 minutes, NIOSH Video No. 178
- Hazards of **Gas Welding**, 16 minutes, NIOSH Video No. 183
- The Finest Tools (**cumulative trauma disorders of hand and wrist**), 22 minutes, NIOSH Video No. 188-B
- Dual Protection (**spray painting**), 14 minutes, NIOSH Video No. 192-A
- Chemical Control Room (**chemical handling**), 23 minutes, NIOSH Video No. 200-B
- New Control For **Orbital Hand Sanders**, 9 minutes, NIOSH Video No. 208
- Caution: **Foundry** at Work, 10 minutes, NIOSH Video No. 210 (Spanish available)
- **Hot Roofing** Safety and Health, 15 minutes, NIOSH Video No. 789

CONSULTATION

NIOSH employees perform free industrial hygiene surveys of plants upon request of employers or employees. The process is initiated by requesting a Health Hazard Evaluation (HHE). The request form and a description of the program are available through the CDC Fax Information Service by calling 1-888-232-3299. The HHE request form is document 750000; the program description is document 750010. Some HHEs may not require a site visit by NIOSH researchers. Sometimes a referral or providing information is enough to address the concerns of the HHE request.

HOW TO RESEARCH A PROBLEM

QUESTION

We are technicians at a doctor's office. We are not sure we are disposing of needles and other sharps correctly. What procedures should we be following?

ANSWERS

1. Request a copy of the NIOSH Publication *Selecting, Evaluating, and Using Sharps Disposal Containers* (NIOSH Publication No. 97-111).
2. Check with OSHA for the requirements related to sharps that are included in OSHA's bloodborne pathogens standard, (29CFR 1910.1030).
3. In some areas, employers also need to contact their local landfill or waste site disposal site.
4. Contact EPA for requirements regarding final disposal.

Other Government Agencies Offering Occupational Safety and Health Services to Small Businesses





State & Federal Resources

DEPARTMENT OF ENERGY (U.S. DOE)

The *Handbook for Occupational Health and Safety During Hazardous Waste Activities* (DOE/ETI-0535) provides tools and guidance to establish and implement comprehensive, cost-effective, hazard-based worker health and safety programs that are an integral part of accomplishing work on time and within budget.

Web site: www.energy.gov

DEPARTMENT OF LABOR (U.S. DOL)

See Occupational Safety and Health Administration and Mine Safety and Health Administration

DEPARTMENT OF TRANSPORTATION (U.S. DOT)

By using the DOT Hazardous Materials Info-Center 800 telephone number, you can obtain hazardous materials transportation information, copies of rulemakings, and training materials. Info-Center specialists are on duty Monday through Friday from 9 a.m. to 5 p.m. eastern time; however, you may call anytime (24 hours a day, 7 days a week) and leave a message. They will return your call before the end of the next business day.

Toll-free telephone: 1-800-467-4922
Web site: hazmat.dot.gov

ENVIRONMENTAL PROTECTION AGENCY (U.S. EPA)

Contact Information and Consultation

Through the Internet, small businesses can access the EPA's small business ombudsman, who provides documents, guidance, and explanation of environmental regulations.

By mail: EPA
Office of the Small Business Ombudsman
401 M St., S.W.
Washington, DC 20460

Web site: www.epa.gov/sbo

EPA's Small Business Hotline answers questions about any EPA regulation.

Toll-free telephone: 1-800-368-5888

Publications

The National Service Center for Environmental Publications (NSCEP) is a center for all EPA documents, with more than 5,500 titles available for free distribution.

By mail: Publications and Information
 National Service Center for Environmental Publications
 P.O. Box 42419
 Cincinnati, OH 45242-2419

Toll-free telephone: 1-800-490-9198

The National Environmental Publications Internet Site (NEPIS) allows users to search, view, and print more than 6,000 documents, including some that are no longer in print.

Both the NSCEP and the NEPIS are accessible through the Internet.

Web site: www.epa.gov/epahome/publications.htm

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

The *Emergency Management Guide for Business and Industry* provides a step-by-step approach to emergency planning, response, and recovery for companies of all sizes. The approaches described in this guide are recommendations, not regulations.

Web site: www.fema.gov/library/bizindex.htm

HEALTHFINDER® (U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES)

Healthfinder® is a free gateway to reliable consumer health and human services information developed by the U.S. Department of Health and Human Services. Healthfinder can lead you to selected online publications, clearinghouses, databases, Web sites, and support and self-help groups as well as the government agencies and nonprofit organizations that produce reliable information for the public.

Web site: www.healthfinder.gov

NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES (NIEHS)

NIEHS seeks to prevent environmental illness through biomedical research. Contact NIEHS for information about their Community Outreach and Education Program Centers.

By mail: NIEHS
 P.O. Box 12233
 Research Triangle Park, NC 27709

Telephone: 1-919-541-3345
Web site: www.niehs.nih.gov/external/outreach.htm

MINE SAFETY AND HEALTH ADMINISTRATION (MSHA/DOL)

Contact Information

MSHA has a Web site that offers information, fact sheets, and a description of its technical assistance services.

By mail: Mine Safety and Health Administration
4015 Wilson Blvd.
Arlington, VA 22209

Telephone: 1-703-235-1452
Web site: www.msha.gov

Publications

Nine MSHA Fact Sheets covering various aspects related to mining (including historical safety and health information) are available at their Web site.

Web site: www.msha.gov/MSHAINFO/MSHAINFO.HTM

Consultation

MSHA provides a variety of technical assistance support services. Besides working directly with individual mining operations, MSHA conducts investigations, performs laboratory studies, performs safety-related tests of mining equipment, and provides special onsite assistance during mine emergencies. For more information, consult their Web site.

Web site: www.msha.gov/MSHAINFO/FACTSHET/MSHAFCT5.HTM

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA/DOL)

Contact Information

Select the *OUTREACH* topic on OSHA's Web site for information about consultation services, voluntary protection programs, State programs, programs and assistance for small businesses, training, and education; or contact your local OSHA office. Select *About OSHA Offices* to locate regional and area offices. OSHA area offices are full service offices that offer interpretations of OSHA standards, examples of sample programs, OSHA publications training, etc.

Web site: www.osha.gov

Publications

A compilation of OSHA regulations, documents, and technical information is available on CD-ROM Order No. S/N 729-013-00000-5, single copy or subscription, issued quarterly.

Web site: www.osha-slc.gov/oshacdrom/index.html

By mail: U.S. Government Printing Office
Superintendent of Documents
P.O. Box 371954
Pittsburgh, PA 15250-7954

Telephone: 1-202-512-1800
Web site: www.access.gpo.gov

Publication lists and single copies of OSHA materials may be obtained by sending a self-addressed label to the OSHA Publications Office.

By mail: OSHA Publications Office
P.O. Box 37535
Washington, DC 20013-7535

Telephone: 1-202-693-1888
Fax: 1-202-693-2498

OSHA publications of interest to small businesses include the following documents:

Asbestos Standard for General Industry	(OSHA 3095)
Consultation Services for the Employer	(OSHA 3047)
How to Prepare for Workplace Emergencies	(OSHA 3088)
Hearing Conservation	(OSHA 3074)
Employee Workplace Rights	(OSHA 3021)

OSHA local area offices distribute these titles as well as other free publications about safe work practices and control of hazardous substances. Publications available in **Spanish** include the *Heat Stress Card* and the *Cold Stress Card*.

Two other publications from OSHA are *Keeping Your Workplace Safe: Q's and A's for Small Business Employers* and the *OSHA Handbook for Small Businesses* (OSHA 2209). They may be purchased from the U.S. Government Printing Office or downloaded from the OSHA Web site at www.osha.gov. You may also order the *Regulations, Documents, and Technical Information* on CD-ROM from the U.S. Government Printing Office.

By mail: U.S. Government Printing Office (GPO)
Superintendent of Documents
P.O. Box 371954
Pittsburgh, PA 15250-7954

Telephone: 1-202-512-1800
Web site: www.access.gpo.gov/su_docs/

Training

The OSHA Training Institute in Des Plaines, Illinois, and Training Education Centers provide basic and advanced courses in safety and health. Small business owners or managers might consider the basic 10-hour training course, which is provided by authorized trainers in addition to many other courses on specific subjects. Local area offices offer audiovisual materials, technical advice, and speakers.

For more information about this training, contact the OSHA Training Institute.

By mail: OSHA Training Institute (scheduled to move in late 2002)
1555 Times Dr.
Des Plaines, IL 60018

Telephone: 1-847-297-4810
Web site: www.osha-slc.gov/fso/ote/training/edcenters/edcenter_contact.html

On the following page is a partial list of OSHA Training Institute Education Centers. Additional Centers are being established. Please check the OSHA Web site above for a current list.

California

University of California, San Diego
OSHA Training Institute Education Center
15373 Innovation Drive
Suite 105
San Diego, California 92128-3424
Toll-free telephone: 1-800-358-9206

Colorado

Red Rocks Community College
Rocky Mountain Education Center
OSHA-Campus Box 41
13300 West Sixth Avenue
Lakewood, Colorado 80228-1255
Toll-free telephone: 1-800-933-8394

Georgia

Georgia Tech Research Institute
Safety, Health and Environmental
Technology Division
151 Sixth Street
Atlanta, GA 30332-0837
Toll-free telephone: 1-800-653-3629

Illinois

Northern Illinois University
Office of External Programming, EB-318
DeKalb, IL 60115-2854
Toll-free telephone: 1-800-656-5317

Construction Safety Council
4100 Madison Street
Hillside, IL 60162
Toll-free telephone: 1-800-552-7744

National Safety Council
Occupational Safety and Health Services
1121 Spring Lake Drive
Itasca, IL 60143-3201
Toll-free telephone: 1-800-621-7615

Maryland

George Meany Center for Labor Studies, Inc.
10000 New Hampshire Ave.
Silver Spring, MD 20903
Toll-free telephone: 1-800-462-4237

Michigan

Eastern Michigan University
Centers for Corporate Training
2000 Huron River Dr., Suite 101
Ypsilanti, MI 48197
Toll-free telephone: 1-800-932-8689

Minnesota

University of Minnesota
Midwest Center for Occupational Health
and Safety
School of Public Health
2221 University Avenue SE
Suite 350
Minneapolis, Minnesota 55414-3078
Toll-free telephone: 1-800-493-2060

Minnesota Safety Council
474 Concordia Ave.
St. Paul, MN 55103
Toll-free telephone: 1-800-444-9150

Missouri

Metropolitan Community Colleges/Business &
Technology Center
6899 Executive Drive
Kansas City, Missouri 64120
Toll-free telephone: 1-800-841-7158

New Hampshire

Keene State College
175 Ammon Dr., Room 212
Manchester, NH 03103-3308
Toll-free telephone: 1-800-449-6742

New York

Niagara County Community College
50 Maine St.
Lockport, NY 14094
Toll-free telephone: 1-800-280-6742

Ohio

Continuing Medical Education
University of Cincinnati
P.O. Box 670567
Cincinnati, OH 45267-0567
Toll-free telephone: 1-800-207-9399

Texas

Southwest Education Center
15515 IH-20 at Lumley
Mesquite, TX 75181
Toll-free telephone: 1-800-723-3811

Washington

University of Washington
Continuing Education program
Department of Environmental Health
4225 Roosevelt Way NE
Suite 100
Seattle, Washington 98105-6099
Toll-free telephone: 1-800-326-7568

Washington DC

Center To Protect Workers' Rights
111 Massachusetts Ave., N.W., 5th floor
Washington, DC 20001
Toll-free telephone: 1-800-367-6724

West Virginia

West Virginia University
130 Tower Lane (P.O. Box 6615)
Morgantown, WV 26506-6615
Toll-free telephone: 1-800-626-4748

Consultation (see also States)

The OSHA Consultation Service provides site visits. They are always at the request of the employer. OSHA also offers workplace safety and health training and technical assistance. **Consultation is free and is completely separate from OSHA's inspection effort.** No citations or penalties are involved (in July 1999 OSHA proposed changes to the consultation program that could (potentially) tie complimentary consultation to an inspection and citation). The onsite consultants will not issue citations, propose penalties, or report violations. The *OSHA Handbook for Small Businesses* describes how this works. Contact your local OSHA office, or download the handbook from the OSHA Web site. OSHA local area offices can provide speakers at public events, advice about maintaining and calibrating some monitoring equipment, off-site advice about controlling various hazards, and information about applying for variances. You can identify your local OSHA office by calling the following:

Toll-free telephone: 1-800-321-6742
Web site: www.osha-slc.gov/html/consultation.html

SMALL BUSINESS ADMINISTRATION (SBA)

SBA offers financial assistance programs to help companies comply with OSHA regulations. For more information, contact the Small Business Office of Advocacy, located in the SBA offices listed below.

Region I (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont)

Regional Advocate
Small Business Administration
10 Causeway Street, Room 812
Boston, MA 02222-1093
Telephone: 1-617-565-8415
Fax: 1-617-565-8420

Region IV (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)

Regional Advocate
Small Business Administration
233 Peachtree St., N.E.
Suite 1800
Atlanta, GA 30303
Telephone: 1-404-331-3081
Fax: 1-404-331-2354

Region II (New Jersey, New York, Puerto Rico, Virgin Islands)

Regional Advocate
Small Business Administration
26 Federal Plaza
Room 3108
New York, NY 10278
Telephone: 1-212-264-7750
Fax: 1-212-264-0038

Region V (Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)

Regional Advocate
Small Business Administration
500 West Madison Street
Suite 1240
Chicago, IL 60606-6611
Telephone: 1-312-353-6070
Fax: 1-312-353-3426

Region III (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia)

Regional Advocate
Small Business Administration
900 Market Street, 5th Floor
Philadelphia, PA 19107
Telephone: 1-215-580-2805
Fax: 1-215-580-2800

Region VI (Arkansas, Louisiana, New Mexico, Oklahoma, Texas)

Regional Advocate
Small Business Administration
4300 Amon Carter Boulevard
Suite 108
Ft. Worth, TX 76155
Telephone: 1-817-684-5579
Fax: 1-817-684-5590

**Region VII (Iowa, Kansas,
Missouri, Nebraska)**

Regional Advocate
Small Business Administration
323 W. 8th Street - Suite 307
Kansas City, MO 64105-1500
Telephone: 1-816-374-6380
Fax: 1-816-374-6339

**Region X (Alaska, Idaho, Oregon,
Washington)**

Regional Advocate
Small Business Administration
1200 Sixth Avenue
Suite 1805
Seattle, WA 98101-1128
Telephone: 1-206-553-5231
Fax: 1-206-553-4155

**Region VIII (Colorado, Montana,
North Dakota, South Dakota,
Utah, Wyoming)**

Regional Advocate
Small Business Administration
721 19th Street
Suite 400
Denver, CO 80202-2599
Telephone: 1-303-844-0503
Fax: 1-303-844-0506

**Region IX (Arizona, California, Guam,
Hawaii, Nevada)**

Regional Advocate
Small Business Administration
455 Market Street
Suite 2200
San Francisco, CA 94105
Telephone: 1-619-557-7250
Fax: 1-619-557-5894

STATES

All States provide free onsite consultation. Twenty-five States have developed and operate their own job safety and health plans under approval and monitoring by OSHA. If your business is located in one of these 25 States, the consultation is conducted by State staff. Most of these agencies provide telephone consultation, onsite nonregulatory visits, publications, and other assistance.

State Agencies or State-Sponsored Universities Providing Occupational Safety and Health Consultation

State Agency or University	Web site	Telephone number
ALABAMA, University of	dcip.ecs.ua.edu/safe_state_osh.htm	1-205-348-7136 (within Alabama) 1-800-452-5928
ALASKA Department of Labor	www.state.ak.us/local/akpages/LABOR/	1-907-269-4957
ARIZONA Industrial Commission	www.ica.state.az.us/ADOSH/oshatop.htm	1-602-542-5795
ARKANSAS Department of Labor	www.state.ar.us/labor/	1-501-682-4526
CALIFORNIA Department of Industrial Relations	www.dir.ca.gov/DOSH/consultation.html	1-800-963-9424
COLORADO State University	www.bernardino.colostate.edu/enhealth/7c1.html	1-970-491-6151
CONNECTICUT Department of Labor	www.ctdol.state.ct.us/osh/osh.htm	1-860-566-4550
DELAWARE Department of Labor	www.delawareworks.com	1-302-761-8219
DISTRICT OF COLUMBIA Department of Employment Services	does.ci.washington.dc.us	1-202-576-6339
FLORIDA Department of Labor and Employment Security	www.safetyflorida.usf.edu/	1-813-974-9962 1-866-273-1105
GEORGIA Institute of Technology	www.oshainfo.gatech.edu/	1-404-894-2646
GUAM Department of Labor	www.labor.gov.gu/	011-671-475-0136
HAWAII Department of Labor and Industrial Relations	www.state.hi.us/dlir/hiosh/	1-808-586-9100
IDAHO Boise State University	www2.boisestate.edu/rmas/enviro_n_occup_health.htm	1-208-426-3283
ILLINOIS Department of Commerce and Community Affairs	www.commerce.state.il.us/	1-312-814-2337 1-800-972-4216
INDIANA Division of Labor	www.ai.org/labor/	1-317-232-2688
IOWA Bureau of Labor	www.state.ia.us/iwd/labor	1-515-281-7629
KANSAS Dept. of Human Resources	www.hr.state.ks.us	1-785-296-2251
KENTUCKY Labor Cabinet	www.kylabor.net/kyosh/oshcons.htm	1-502-564-6895
LOUISIANA Department of Labor	www.laworks.net	1-225-342-9601
MAINE Bureau of Labor Standards	www.state.me.us/labor/bls/saftwkr.htm	1-207-624-6400
MARYLAND Division of Labor and Industry	www.dlir.state.md.us/labor/mosh.html/	1-410-880-6131 1-301-483-8406
MASSACHUSETTS Department of Labor and Workforce Development	www.state.ma.us/dos	1-617-727-3982
MICHIGAN Department of Consumer and Industry Services	www.cis.state.mi.us/bsr/divisions/occ/occcons.htm	1-517-322-1809 1-517-322-6823
MINNESOTA Department of Labor and Industry	www.doli.state.mn.us/wsc.html	1-651-284-5060 1-800-657-3776

MISSISSIPPI State University	www.msstate.edu/dept/csh/	1-601-939-2047
MISSOURI Department of Labor and Industrial Relations	www.dolir.state.mo.us/lis/onsite/index.html	1-573-751-3403
MONTANA Department of Labor and Industry	erd.dli.state.mt.us/Safety/SBocSH.htm	1-406-444-6418
NEBRASKA Department of Labor	www.dol.state.ne.us/nwd/	1-402-471-4717
NEVADA Department of Business and Industry	4safenv.state.nv.us/	1-702-486-9140
NEW HAMPSHIRE Department of Health and Human Services	www.dhhs.state.nh.us/CommPublicHealth/oshcs.nsf	1-603-271-2024
NEW JERSEY Department of Labor	www.state.nj.us/labor/consult.htm	1-609-292-3923
NEW MEXICO Environment Dept.	www.nmenv.state.nm.us/Ohsb_Website/ohsb_home.htm	1-505-827-4230
NEW YORK Department of Labor	www.labor.state.ny.us	1-518-457-2238
NORTH CAROLINA Dept. of Labor	www.dol.state.nc.us/osha/consult/consult.htm	1-919-807-2899
NORTH DAKOTA Division of Environmental Engineering	ndsafety.net/	1-701-328-5188
OHIO Bureau of Workers' Compensation Division of Safety and Hygiene	www.bwc.state.oh.us/employer/programs/safety/SandFIOnSite.asp	1-614-995-8622 1-800-644-6292
OKLAHOMA Department of Labor	www.state.ok.us/~okdol/osha/index.htm	1-405-528-1500
OREGON Department of Consumer and Business Services	www.cbs.state.or.us/external/osha/consultation.htm	1-503-378-3272 1-800-922-2689
PENNSYLVANIA Indiana University	www.hhs.iup.edu/sa/OSHA/index.htm (in Pennsylvania)	1-724-357-2396 1-800-382-1241
PUERTO RICO Department of Labor and Human Resources	dtrh.prstar.net/osho.htm (primarily Spanish)	1-787-754-2186
RHODE ISLAND Dept. of Health	www.state.ri.us/dohrad.htm or www.health.state.ri.us	1-401-222-2438
SOUTH CAROLINA Department of Labor, Licensing, and Regulation	www.llr.state.sc.us/scovp/default.htm	1-803-734-9614
SOUTH DAKOTA State University	www3.sdstate.edu/Academics/CollegeOfEngineering/EngineeringResourceCenter/EngineeringExtension/	1-605-688-4101
TENNESSEE Department of Labor	www.state.tn.us/labor-wfd	1-800-325-9901 1-615-741-7155
TEXAS Worker's Comp. Commission	twcc.state.tx.us/services/oshcon.html	1-800-687-7080
UTAH Labor Commission	www.uosh.utah.gov/	1-800-222-1238 1-801-530-6901
VERMONT Department of Labor and Industry	www.state.vt.us/labind/vosha.htm	1-802-828-2765
VIRGINIA Department of Labor and Industry	www.doli.state.va.us/	1-804-786-8707
VIRGIN ISLANDS Dept. of Labor		1-340-772-1315
WASHINGTON Dept. of Labor and Industries	www.lni.wa.gov/wisha	1-800-423-7233
WEST VIRGINIA Department of Labor	www.state.wv.us/labor	1-304-558-7890
WISCONSIN Department of Health and Family Services (HEALTH)	www.dhfs.state.wi.us/	1-608-266-0417
WISCONSIN Department of Commerce (SAFETY)	www.commerce.state.wi.us/MT/MT-FAX-0928.html	1-262-523-3045
WYOMING Dept. of Employment	wydoc.state.wy.us/doc.asp?ID=7	1-307-777-7786

HOW TO RESEARCH A PROBLEM

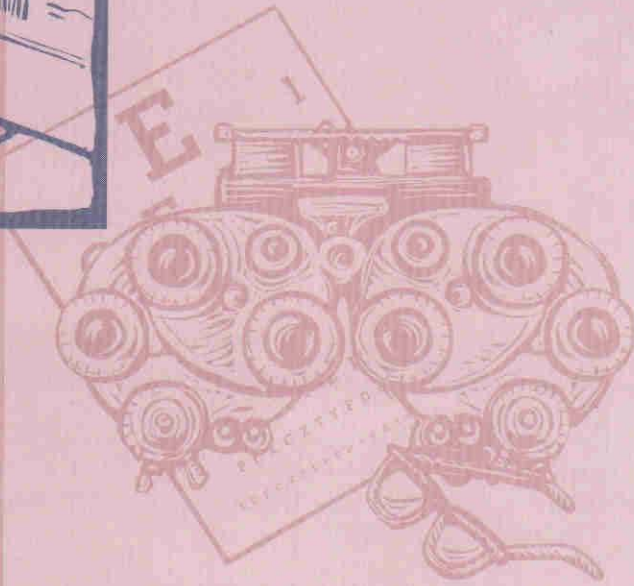
QUESTION

I work with lead and for years have heard about the hazards of lead. How do I protect myself and my family?

ANSWERS

1. Contact NIOSH for information about working with lead, including health effects and protective equipment (such as respirators).
2. Contact OSHA for information about the requirements of the OSHA lead standard (29 CFR 1910.102).
3. Lead may be transported from the workplace to your home on your body or your clothes and can affect your family. Such contamination is often called “take-home lead.” Make sure you wash and change clothes before going home and launder your clothes separately from those of your family. For information about dealing with take-home lead, request a copy of the NIOSH publication *Reduce Contamination at Home* (NIOSH Pub. No. 97-125).

Educational Institutions, Organizations and Commercial Establishments Offering Occupational Safety and Health Services to Small Businesses





Educational, Organizational & Commercial Resources

ALLIANCE OF AMERICAN INSURERS

The Alliance is a property and casualty insurance trade association that works with interested safety professionals and stakeholders from the public sector, private industry, labor, and academia. They organize local coalitions interested in developing new public policy approaches to protect employees working in small businesses.

By mail: Alliance of American Insurers
Safety and Environment Department
3025 Highland Parkway, Suite 800
Downers Grove, IL 60515-1289

Telephone: 1-630-724-2100
Web site: www.allianceai.org

AMERICAN ASSOCIATION OF OCCUPATIONAL HEALTH NURSES (AAOHN)

This group is an association of registered professional nurses employed by business and industrial firms; nurse educators, nurse editors, nurse writers, and others interested in occupational health nursing. AAOHN provides workplace information referrals and related services. In addition, they have several publications of interest to small business, and they provide a speakers bureau.

By mail: AAOHN
Suite 100
2920 Brandywine Rd.
Atlanta, GA 30341

Telephone: 1-770-455-7757
Fax: 1-770-455-7271
Web site: www.aaohn.org

AMERICAN COLLEGE OF OCCUPATIONAL AND ENVIRONMENTAL MEDICINE (ACOEM)-MEDICAL REFERRALS

This group of physicians specializes in occupational and environmental medicine. ACOEM promotes maintenance and improvement of the health of workers, works to increase awareness of occupational medicine as a medical specialty, and provides referrals to physicians. The ACOEM represents more than 7,000 medical specialists.

By mail: ACOEM
1114 N. Arlington Heights Road
Arlington Heights, Illinois, 60004-4770

Telephone: 1-847-818-1800
Fax: 1-847-818-9266
Web site: www.acoem.org

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH)

ACGIH is a professional society of occupational and environmental safety and health professionals devoted to the development of administrative and technical aspects of worker health protection. ACGIH functions mainly as a medium for the exchange of ideas and the promotion of standards and techniques in industrial health.

By mail: ACGIH
1330 Kemper Meadow Dr., Suite 600
Cincinnati, OH 45240

Telephone: 1-513-742-2020
Fax: 1-513-742-3355
Web site: www.acgih.org

AMERICAN INDUSTRIAL HYGIENE ASSOCIATION (AIHA)

AIHA is a professional society of industrial hygienists that promotes the study and control of environmental factors affecting the health and well-being of workers. AIHA sponsors continuing education courses in industrial hygiene, a government affairs program, and public relations.

Contact Information and Publications

The *AIHA Hygienic Guide Series* includes data sheets about substances; they include standards, properties, practices, procedures, and references. Other AIHA publications may also be helpful. These data sheets and other AIHA publications are available for sale.

By mail: American Industrial Hygiene Association
2700 Prosperity Ave., Suite 250
Fairfax, VA 22031-4319

Telephone: 1-703-849-8888
Fax: 1-703-207-3561
Web site: www.aiha.org

Consultation and Site Visits

The AIHA also gives referrals for industrial hygiene consultants, worksite monitoring, and related activities.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI serves as a clearinghouse for nationally coordinated voluntary standards for fields ranging from information technology to building construction. ANSI gives American National Standards status to standards developed for definitions, terminology, symbols, and abbreviations; materials, performance characteristics, procedures, and methods of rating; methods of testing and analysis; size, weight, volume, and rating; practice, safety, health, and building construction. ANSI provides information on foreign standards and represents U.S. interests in international standardization work.

Guides of interest include the following:

ANSI Z11.7-1995 Confined Spaces
ANSI Z88.2-1992 Respiratory Protection

By mail: American National Standards Institute
25 West 43rd Street, 4th Fl.
New York, NY 10036

Telephone: 1-212-642-4900
Fax: 1-212-398-0023
Web site: www.ansi.org

AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE)

ASSE is a professional society of safety engineers, safety professionals, safety directors, and others concerned with accident prevention, environmental protection, and safety and health programs. ASSE develops and publishes ANSI safety-related standards and other technical literature.

Contact Information and Publications

ASSE publishes a manual called *Safety and Health Management Guide for Small Business*, which has been endorsed and recognized by regulators at the State level. Other ASSE publications and materials may also be helpful.

By mail: American Society of Safety Engineers
1800 East Oakton Street
Des Plaines, IL 60018

Telephone: 1-847-699-2929
Fax: 1-847-768-3434
Web site: www.asse.org

Training

ASSE offers courses leading to a certificate in safety management and has correspondence courses approved by the American Council on Education (ACE) for college credit. ASSE also offers a series of training programs for all levels of safety and health management, including group and private seminars.

Consultation

For referrals for safety consultation and related activities, ASSE offers The National Directory of Safety Consultants which is an extensive catalog of safety and health consultants listed by geographic location, expertise, and credentials. ASSE also serves as the Registrar of the National Registry of Safety Professionals and other Registrants.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM establishes standards for materials, products, systems, and services. ASTM has 131 technical committees (each having five to 50 subcommittees). New committees are organized periodically to keep pace with technological advances. ASTM has developed more than 10,000 standard test methods, specifications, classifications, definitions, and recommended practices now in use.

Information is available about the prices of ASTM standards with related material.

By mail: American Society for Testing and Materials (ASTM)
P.O. Box C700
100 Barr Harbor Dr.
West Conshohocken, PA 19428-2959
Telephone: 1-610-832-9585
Fax: 1-610-832-9555
Web site: www.astm.org

ASSOCIATION OF OCCUPATIONAL AND ENVIRONMENTAL CLINICS (AOEC)

This association seeks to enhance the practice of occupational and environmental medicine by sharing information and providing educational and research programs.

Information is available about occupational safety and health clinics.

By mail: Association of Occupational and Environmental Clinics
1010 Vermont Ave. N.W., #513
Washington, DC 20005
Telephone: 1-202-347-4976
Web site: www.aoec.org

CENTER FOR SAFETY IN THE ARTS

Publications about hazards in the arts and crafts industry are available.

By mail: Center for Safety in the Arts
Art Hazards Information Center
c/o New York Foundation for the Arts
155 Avenue of the Americas, 14th floor
New York, NY 10013
Web site: www.artswire.org

COMMITTEES FOR OCCUPATIONAL SAFETY AND HEALTH (COSHs)

COSHs are usually nonprofit groups that assist workers, labor leaders, occupational safety and health professionals, medical professionals, and community activists with occupational safety and health concerns. COSHs are good sources of current information, and many maintain libraries or offer technical assistance.

Alaska

Alaska Health Project
218 E. 4th Ave.
Anchorage, AK 99501
Telephone: 1-907-276-2864
Fax: 1-907-279-3089

Arkansas

Arkansas COSH
c/o Tom Karson
UALR
2801 S. University Ave.
Little Rock, AR 72204-1099
Telephone: 1-501-569-8483

California

Worksafe
c/o San Francisco Labor Council
1188 Franklin St., #203
San Francisco, CA 94109
Telephone: 1-510-302-1071
Web site: www.worksafe.org

LACOSH

5855 Venice Blvd.
Los Angeles, CA 90019
Telephone: 1-323-931-0603
Fax: 1-323-931-2255

California (continued)

SA-COSH
c/o Fire Fighters Local 522
3101 Stockton Blvd.
Sacramento, CA 95820
Telephone: 1-916-442-4390
Fax: 1-916-446-3057

SCCOSH
760 N. First St., 2nd floor
San Jose, CA 95112
Telephone: 1-408-998-4050
Fax: 1-408-998-4051

Connecticut

ConnectiCOSH
77 Huyshope Ave., 2nd floor
Hartford, CT 06106
Telephone: 1-860-549-1877
Web site: www.homestead.com/homefront/Connecticosh.html

Illinois

CACOSH
1636 W. Van Buren
Chicago, IL 60612
Telephone: 1-312-666-1611

Maine

Maine Labor Group on Health
P.O. Box 5197
71 State Street
Augusta, ME 04332
Telephone: 1-207-622-7823
Web site: www.mlgh.org

Maryland

Alice Hamilton Occupational Health Center
1310 Apple Ave.
Silver Spring, MD 20910-3354
Telephone: 1-301-565-4590
Web site: www.alicehamilton.org

Massachusetts

MassCOSH
12 Southern Ave.
Dorchester, MA 02124
Telephone: 1-617-825-7233
Web site: www.masscosh.org

Western MassCOSH
640 Page Blvd.
Springfield, MA 01104
Telephone: 1-413-731-0760

Michigan

SEMCOSH
1550 Howard St.
Detroit, MI 48216
Telephone: 1-313-961-3345
Web site: www.semcosh.org

New Hampshire

NHCOSH
57 School Street
Concord, NH 03301
Telephone: 1-603-226-0516

New Jersey

NJWEC
1543 Brunswick Ave., 1st Floor
Lawrenceville, NJ 08648
Telephone: 1-609-695-7100
Fax: 1-609-695-4200

New York

CNYCOSH
615 W. Genessee St.
Syracuse, NY 13204
Telephone: 1-315-471-6187

NYCOSH

275 Seventh Ave., 8th floor
New York, NY 10001
Telephone: 1-212-627-3900
Web site: www.nycosh.org

ROCOSH

46 Prince St.
Rochester, NY 14607
Telephone: 1-716-244-0420
Fax: 1-716-244-0956
Web site: www.rocosh.org

WNYCOSH

2495 Main St., #438
Buffalo, NY 14214
Telephone: 1-716-833-5416
Fax: 1-716-833-7507

North Carolina

NCOSH
P.O. Box 2514
Durham, NC 27715
Telephone: 1-919-286-9249
Web site: www.ncosh.org

Pennsylvania

PHILAPOSH
3001 Walnut Street, 5th Floor
Philadelphia, PA 19104
Telephone: 1-215-386-7000
Fax: 1-215-386-3529
Web site: www.philaposh.org

Rhode Island

RICOSH
741 Westminster St.
Providence, RI 02903
Telephone: 1-401-751-2015 (messages only)

Wisconsin

WisCOSH
734 N. 26th St.
Milwaukee, WI 53233
Telephone: 1-414-933-2338

SCWCOSH

P.O. Box 2194
Madison, WI 53701-2194
Telephone: 1-608-257-4272

Ontario, Canada

WOHIS
547 Victoria Ave.
Windsor, Ontario N9A 4N1
Telephone: 1-519-254-5157
Fax: 1-519-254-4192

EDUCATION AND RESEARCH CENTERS (ERCs)

See NIOSH Resources/Training

ENVIRONMENTAL AND OCCUPATIONAL HEALTH SCIENCES INSTITUTE (EOHSI)

EOHSI offers 19 INFOletters and 30 INFOsheets on a wide variety of topics in the environmental and occupational health sciences. More information is available through the EOHSI Web site.

Web site: www.eohsi.rutgers.edu/rc/publication.html

THE HEALTH INFORMATION RESOURCE DATABASE

The Health Information Resource Database includes 1,100 organizations and government offices that provide health information upon request.

Entries include:

- contact information
- short abstracts
- information about publications and services
- toll-free numbers for health information
- Federal health information centers and clearinghouses

You may use key words to search the database.

Web site: <http://nhic-nt.health.org/Index.htm>

INSURANCE CARRIERS (SEE ALSO ALLIANCE OF AMERICAN INSURERS)

Many insurance carriers offer information about safety, loss prevention, and risk management. Check their Web sites, or ask your agent if they provide checklists or educational or reference material regarding workplace safety and health.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA develops, publishes, and disseminates standards (prepared by approximately 250 technical committees) that are intended to minimize the possibility and effects of fire and explosion. NFPA also conducts fire safety education programs for the general public. NFPA provides information on fire protection, prevention, and suppression; compiles annual statistics on causes and occupancies of fires, large-loss fires (over \$1,000,000), fire deaths, and fire fighter casualties. NFPA provides field service by specialists on electricity, flammable liquids and gases, and marine fire problems. NFPA also sponsors seminars on the Life Safety Code, the National Electrical Code, hotel/motel fire safety, shipyard fire protection, fire safety in detention and correctional facilities, and other timely topics.

For information about fire protection and fire prevention contact

By mail: National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02269-9101

Toll-free telephone: 1-800-344-3555 (publications only)
Telephone: 1-617-770-3000
Web site: www.nfpa.org

NATIONAL SAFETY COUNCIL (NSC)

The NSC is a not-for-profit public service organization dedicated to improving the safety and health of all people. The mission of NSC is to educate and influence society to adopt safety, health, and environmental policies, practices, and procedures that prevent and mitigate human suffering and economic losses arising from preventable causes.

By mail: National Safety Council
1121 Spring Lake Drive
Itasca, IL 60143-3201

Toll-free telephone: 1-800-621-7619
Web site: www.nsc.org

Contact Information and Publications

NSC disseminates a wide variety of safety education programs, periodicals, technical books, manuals, and motivational materials that assist members and non-members in fulfilling their safety, health, and environmental responsibilities.

Training

The NSC offers a wide variety of training options to meet occupational safety and health needs. NSC also offers specialty training, as well as customized and packaged training courses. Information about their Advanced Safety Certificate (ASC) can be obtained from NSC.

Many NSC chapters have catalogs of videos which can be rented or purchased. Some titles are available in Spanish. The NSC Web site has up-to-date listings of videos.

TRADE ASSOCIATIONS, UNIONS, AND EDUCATIONAL INSTITUTIONS

Trade associations or professional associations and unions often have technical information and data specific to an industry. Also, equipment or product manufacturers may have information about how to operate their products safely or about precautions to take. Check with your local colleges or universities to see whether they have departments in industrial hygiene, safety, or public health. Faculty or libraries may also have useful information. Trade associations sometimes offer training programs about common hazards. Employers whose workers are represented by unions have access to many hazard assessment resources as well as to safety and health training.

VERMONT SAFETY INFORMATION RESOURCES-SAFETY GRAPHICS

The Vermont Safety Information Resources on the Internet (SIRI) has information about images, logos, and warnings. Also included is information about making signs, labels, and pamphlets. Access and download numerous graphics from the following lists of folders:

Back safety	Noise
Electrical	Office
Emergencies	Personal protection
Fire	Safety management
Industrial hygiene	Tools
Industrial operations	Ventilation
Labs	Waste
Medical	

Web site: <http://siri.uvm.edu/graphics/>

WORKERS' COMPENSATION CARRIERS (SEE ALSO ALLIANCE OF AMERICAN INSURERS)

Your workers' compensation carrier may be able to assist you in addressing your safety and health concerns. Many workers' compensation insurers provide services that assist their policyholders in identifying, evaluating, and controlling occupational health problems. Workers' compensation insurers deliver these services in person, by mail, or by telephone, commensurate with the employer's need. Many workers' compensation insurers also offer consultations on safety, loss prevention, and risk management. Contact your workers' compensation insurer or agent for more information.

Also, if you need to hire a private consultant, select one by matching the consultant's specialty to your business and your safety and health concerns. It might be helpful to contact organizations listed in this booklet. In addition, your workers' compensation insurer may be able to assist you in selecting a private consultant. To obtain the telephone number of the workers' compensation bureau in your State, call 1-800-622-4123.

COMMERCIAL ESTABLISHMENTS OFFERING OCCUPATIONAL SAFETY AND HEALTH SERVICES TO SMALL BUSINESSES

The following commercial establishments have been included only because they represent the types of commercial establishments available to small businesses.

A.M. BEST SAFETY AND SECURITY DIRECTORY

This Directory provides details on OSHA standards and regulations, checklists, training articles, and new product developments.

Best's Safety & Security Directory
AM Best Company
AM Best Road
Oldwick, NJ 08858

Telephone: 1-908-439-2200 (ext. 5078)

Web site: www.ambest.com/safety

AMERICAN CHEMISTRY COUNCIL (ACC)

This Council (formerly the Chemical Manufacturers Association [CMA]) represents the chemical industry on public policy issues, coordinates the industry's research and testing programs, and administers the industry's environmental, health, and safety performance improvement initiative, known as Responsible Care. ACC operates CHEMTREC®, which offers guidance to emergency services on handling emergencies involving chemicals. ACC also maintains a list of online databases of material safety data sheets (MSDSs). Chemical manufacturers and suppliers are required under the OSHA hazard communication standard to provide a MSDS with their products. MSDSs contain important information on safety and health hazards of chemicals and precautions to take when handling them.

By mail: American Chemistry Council
1300 Wilson Boulevard
Arlington, VA 22209

Telephone: 1-703-741-5000

Web site: www.cmahq.com

INTERNATIONAL SAFETY EQUIPMENT ASSOCIATION

The International Safety Equipment Association is the trade association in the United States for companies that manufacture safety equipment. Included in the association are products for head, eye and face, respiratory, hearing, hand, and fall protection; environmental monitoring instruments; safety warning signs and symbols; emergency eyewash and shower; first aid kits, clean room garments, and other safety apparel.

By mail: International Safety Equipment Association
1901 N. Moore Street, Suite 808
Arlington, VA 22209

Telephone: 1-703-525-1695
Fax: 1-703-528-2148
Web site: www.safetyequipment.org

NATIONAL FEDERATION OF INDEPENDENT BUSINESS

The National Federation of Independent Business is the Nation's largest advocacy organization for small and independent businesses. It presents opinions of small and independent business to State and national legislative bodies and conducts surveys at the State level with area directors and government affairs representatives working with State legislatures.

By mail: The National Federation of Independent Business
53 Century Boulevard, Suite 250
Nashville, TN 37214

Toll-free telephone: 1-800-634-2669
Telephone: 1-615-872-5800
Web site: www.nfibonline.com

UNDERWRITERS LABORATORIES (MANUFACTURING STANDARDS)

Underwriters Laboratories Inc. (UL) is an independent, not-for-profit product safety testing and certification organization. UL offers services to consumers, manufacturers, and regulators.

Annual lists of manufacturers whose products proved acceptable under appropriate standards are available.

By mail: Underwriters Laboratories, Inc.
333 Pfingsten Rd.
Northbrook, IL 60062

Telephone: 1-847-272-8800
Fax: 1-847-272-8129
Web site: www.ul.com

APPENDIX

NIOSH PUBLICATIONS

To order publications from NIOSH, call 1-800-35-NIOSH (1-800-356-4674).

ALERTS

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.

UPDATES

Updates are brief nontechnical publications that are intended to provide information about NIOSH findings and recommend preventive measures. The information is presented in a format that can be easily used by the media and other organizations.

HAZARD CONTROLS (HCs) AND HAZARD IDs (HIDs)

Hazard Controls are short, user-friendly documents that describe control techniques for reducing hazardous exposures to workers in a particular application or industrial process. These documents outline and illustrate successful engineering controls and work practices.

Hazard IDs (Identifications) are short, user-friendly documents that summarize the results of NIOSH studies at a worksite. These documents identify new or current safety and health hazards and offer recommendations for control or prevention. HIDs are directed primarily to workers at other U.S. worksites who are similarly exposed but may be unaware of the hazards and measures for prevention.

CURRENT INTELLIGENCE BULLETINS (CIBs)

Current Intelligence Bulletins review and evaluate new and emerging information about occupational hazards. They may draw attention to a previously unrecognized hazard, report new data about a known hazard, or disseminate information about hazard control.

TABLE A-1. SELECTED NIOSH PUBLICATIONS

Subject industry or hazard

Publication No.	Title
Acetaldehyde and malonaldehyde/aldehydes	
91-112	CIB-55: Carcinogenicity of Acetaldehyde and Malonaldehyde, and Mutagenicity of Related Low-Molecular-Weight Aldehydes (September 1991)
Animal handling (see also Farming)	
97-116	Alert: Preventing Asthma in Animal Handlers (January 1998)
99-100	HID 5: Cercopithecine Herpesvirus 1 (B Virus) Infection Resulting from Ocular Exposure (May 1999)
Arsine	
79-142	CIB-32: Arsine (Arsenic Hydride) Poisoning in the Workplace (August 1979)
Asphalt	
2001-127	Asphalt Fume Exposures During the Manufacture of Asphalt Roofing Products: Current Practices for Reducing Exposure
2001-110	Health Effects of Occupational Exposure to Asphalt
Auto repair	
96-105	HC 1: Control of Dusts from Sanding in Autobody Repair Shops (January 1996)
96-106	HC 2: Control of Paint Overspray in Autobody Repair Shops (January 1996)
Beauty salons	
99-112	HC 28: Controlling Chemical Hazards during the Application of Artificial Fingernails (January 1999)
1,3-Butadiene	
84-105	CIB-41: 1,3-Butadiene (February 1984)
Cadmium	
84-116	CIB-42: Cadmium (September 1984)

Carpet layers

90-104 Alert: Preventing Knee Injuries and Disorders in Carpet Layers (May 1990)

Child labor

95-125 Alert: Preventing Deaths and Injuries of Adolescent Workers (May 1995)

94-117 Update: NIOSH Warns: Employment Can be Dangerous and Deadly for Adolescents (June 1994)

95-115 Update: NIOSH Warns: Employment May Be Hazardous for Adolescent Workers (July 1995)

96-119 Update: NIOSH Study Finds Work Injuries, Illnesses among Young Employees Pervasive, Preventable (June 1996)

Chloroethanes

78-181 CIB-27: Chloroethanes: Review of Toxicity (August 1978)

Chlorofluorocarbon 113 (CFC-113)

89-109 Alert: Preventing Death from Excessive Exposure to Chlorofluorocarbon 113 (CFC-113) (May 1989)

Confined spaces

87-113 A Guide to Safety in Confined Spaces

86-110 Alert: Preventing Occupational Fatalities in Confined Spaces (January 1986)

Construction

85-110 Alert: Preventing Deaths and Injuries from Excavation Cave-Ins (July 1985)

93-110 Update: NIOSH Warns of Danger of Trench Cave-Ins (May 1993)

93-120 Update: NIOSH Issues Nationwide Alert on Dangers of Working from Scaffolds (January 1993)

96-120 Update: NIOSH Warns of Silicosis Risk in Construction, Suggests Measures to Reduce Exposure (June 1996)

91-116 Alert: Preventing Lead Poisoning in Construction Workers: Revised Edition (April 1992)

92-102 Alert: Preventing Silicosis and Deaths from Sandblasting (August 1992)

92-108 Alert: Preventing Worker Injuries and Deaths Caused by Falls from Suspension Scaffolds (August 1992)

Construction (continued)

96-112	Alert: Preventing Silicosis and Deaths in Construction Workers (May 1996)
98-117	Alert: Preventing Injuries and Deaths from Skid-Steer Loaders (February 1998)
98-122	HID 3: Carbon Monoxide Poisoning and Death after the Use of Explosives in a Sewer Construction Project (August 1998)
99-113	HC 30: Control of Drywall Sanding Dust Exposure (June 1999)
2001-156	Alert: Preventing Injuries and Deaths from Falls during Construction and Maintenance of Telecommunication Towers

Diesel exhaust

88-116	CIB-50: Carcinogenic Effects of Exposure to Diesel Exhaust (August 1988)
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Diisocyanates

96-111	Alert: Preventing Asthma and Death from Diisocyanate Exposure (March 1996)
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Dimethylethylamine (DMEA)

88-103	Alert: Preventing Vision Disturbances and Acute Physical Distress Due to Dimethylethylamine (DMEA) Exposure (December 1987)
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Dimethylformamide (DMF)

90-105	Alert: Preventing Adverse Health Effects from Exposure to Dimethylformamide (DMF) (September 1990)
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Dinitrotoluenes

85-109	CIB-44: Dinitrotoluenes (DNT) (July 1985)
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Dioxin (2,3,7,8-Tetrachlorodibenzo-p-Dioxin)

84-104	CIB-40: 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD, "dioxin") (January 1984)
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Direct Blue 6, Direct Black 38, Direct Brown 95, Benzidine-derived dyes

78-148	CIB-24: Direct Blue 6, Direct Black 38, Direct Brown 95, Benzidine Derived Dyes (April 1978)
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Drycleaning

97-154	HC 16: Control of Exposure to Perchloroethylene in Commercial Drycleaning (October 1997)
97-155	HC 17: Control of Exposure to Perchloroethylene in Commercial Drycleaning (Substitution) (October 1997)
97-156	HC 18: Control of Exposure to Perchloroethylene in Commercial Drycleaning (Machine Design) (October 1997)
97-157	HC 19: Control of Exposure to Perchloroethylene in Commercial Drycleaning (Ventilation) (October 1997)
97-158	HC 20: Control of Spotting Chemical Hazards in Commercial Drycleaning (October 1997)
97-159	HC 21: Control of Fire Hazards in Commercial Drycleaning Shops Using Petroleum-Based Solvents (October 1997)
97-160	HC 22: Control of Ergonomic Hazards in Commercial Drycleaning (October 1997)

Electrical energy

87-100	Alert: Preventing Electrocutions Due to Damaged Receptacles and Connectors (October 1986)
87-103	Alert: Preventing Fatalities of Workers Who Contact Electrical Energy (December 1986)
98-108	HC 25: Controlling the Ergonomic Hazards of Wiring Tasks for Household Appliances (December 1997)
86-111	CIB-45: Polychlorinated Biphenyls (PCBs): Potential Health Hazards from Electrical Equipment Fires or Failures (February 1986)
99-110	Alert: Preventing Worker Deaths from Uncontrolled Release of Electrical, Mechanical, and Other Types of Hazardous Energy (August 1999)
2001-115	Worker Deaths by Electrocution (CD-ROM)
2002-123	Electrical Safety: Safety and Health for Electrical Trades (Student Manual)

Electrical utilities

85-111	Alert: Preventing Electrocutions from Contact between Cranes and Power Lines (July 1985)
88-104	Alert: Preventing Electrocutions by Undetected Feedback Electrical Energy Present in Power Lines (December 1987)
89-110	Alert: Preventing Electrocutions of Workers Using Portable Metal Ladders near Overhead Power Lines (July 1989)
91-110	Alert: Preventing Electrocutions During Work with Scaffolds near Overhead Power Lines (August 1991)
95-108	Alert: Preventing Electrocutions of Crane Operators and Crew Members Working near Overhead Power Lines (May 1995)

Embalming

98-149	HC 26: Controlling Formaldehyde Exposures during Embalming (October 1998)
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Epichlorohydrin

79-105	CIB-30: Epichlorohydrin (October 1978)
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Ergonomics

2001-122	NIOSH Musculoskeletal Documents on CD-ROM: Preventing Work-Related Disorders
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Ethylene dibromide

82-105	CIB-37: Ethylene Dibromide (EDB) (Revised) (October 1981)
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Ethylene dibromide and disulfiram

78-145	CIB-23: Ethylene Dibromide and Disulfiram Toxic Interaction (April 1978)
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Ethylene dichloride (1,2-dichloroethane)

78-149	CIB-25: Ethylene Dichloride (1,2-Dichloroethane) (April 1978)
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Ethylene oxide (see also Health care)

81-130	CIB-35: Ethylene Oxide (EtO) (May 1981)
2000-119	Alert: Preventing Worker Injuries and Deaths from Explosions in Industrial Ethylene Oxide Sterilization Facilities (April 2000)

Ethylene thiourea

78-144 CIB-22: Ethylene Thiourea (April 1978)

Farming (see also Animal handling and Grain augers)

86-118 Alert: Preventing Fatalities Due to Fires and Explosions in Oxygen-Limiting Silos (July 1986)

88-102 Alert: Preventing Entrapment Suffocation Caused by the Unstable Surfaces of Stored Grain and Other Materials (December 1987)

90-103 Alert: Preventing Deaths of Farm Workers in Manure Pits (May 1990)

93-114 Update: NIOSH Warns: Manure Pits Continue to Claim Lives (July 6, 1993)

93-115 Update: NIOSH Issues Warning to Tobacco Harvesters (July 8, 1993)

93-116 Update: NIOSH Warns Farmers of Deadly Risk of Grain Suffocation (April 28, 1993)

93-119 Update: NIOSH Reports on the Preventability of Tractor Rollovers (January 29, 1993)

93-126 Update: Farm Safety: Danger of Hair Entanglement in Hay Bailer Drive Shafts (July 1992)

94-102 Alert: Preventing Organic Dust Toxic Syndrome (April 1994)

94-105 Alert: Preventing Scalping and Other Severe Injuries from Farm Machinery (June 1994)

94-121 Update: NIOSH Warns of Agricultural Hazards: Organic Dust Syndrome (July 19, 1994)

95-118 Update: NIOSH Warns Farmers of Forage Wagon Hazards (September 14, 1995)

97-108 Update: NIOSH Warns: Improper Hitching to Tractors Can Be Fatal (January 14, 1997)

98-146 HID 4: Ignition Hazard from Drilling into Sealed Frames of Agriculture Equipment (August 1998)

2001-111 Simple Solutions: Ergonomics for Farm Workers

2001-146 HID 13: Hazards Associated with Using Farm Tractors to Move Large Bales

Fishing

93-111	Update: College Students May Be Risking Their Lives on Fishing Vessels (May 14, 1993)
94-107	Alert: Preventing Drownings of Commercial Fishermen (April 1994)
94-111	Update: College Students may be Risking Their Lives on Fishing Vessels, Working in the Alaska Fishing Industry is one of the Most Hazardous Jobs (April 1994)
97-163	CIB-58: Commercial Fishing Fatalities in Alaska: Risk Factors and Prevention Strategies (September 1997)
2000-104	Proceedings of the Second National Fishing Industry Safety and Health Workshop

Flood cleanup

93-128	Update: NIOSH Warns Midwest of Hazards of Flood Cleanup Work (August 12, 1993), (Revised to 94-123)
94-123	Update: NIOSH Warns of the Hazards of Flood Cleanup Work (July 1994)

Forklifts

2001-109	Alert: Preventing Injuries and Deaths of Workers Who Operate or Work Near Forklifts (December 1999)
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Formaldehyde

81-111	CIB-34: Formaldehyde: Evidence of Carcinogenicity (April 1981)
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Foundry

98-106	HC 23: Controlling Silica Dust from Foundry Casting-Cleaning Operations (December 1997)
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Gas cans

98-111	HID 2: Fire Hazards from Filling Portable Gas Cans in Pickup Trucks and Cars (August 1998)
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Glycidyl ethers

79-104 CIB-29: Glycidyl Ethers (October 1978)

Glycol ethers

83-112 CIB-39: Glycol Ethers 2-Methoxyethanol and 2-Ethoxyethanol (May 1983)

Grain augers (see also Farming)

86-119 Alert: Preventing Grain Auger Electrocutions (July 1986)

Hair and fur dyes (see also Beauty salons)

78-111 CIB-19: 2,4-Diaminoanisole (4-Methoxy-m-Phenylenediamine) in Hair and Fur Dye (January 1978)

Health care (see also Needlesticks)

89-115 CIB-52: Ethylene Oxide Sterilizers in Health Care Facilities: Engineering Controls and Work Practices (July 1989)

94-100 Alert: Controlling Exposures to Nitrous Oxide during Anesthetic Administration (April 1994)

94-118 Update: NIOSH Warns Nitrous Oxide Continues to Threaten Health Care Workers (June 14, 1994)

96-128 HC 11: Control of Smoke from Laser/Electric Surgical Procedures (September 1996)

97-135 Alert: Preventing Allergic Reactions to Natural Rubber Latex in the Workplace (August 1997)

99-105 HC 29: Control of Nitrous Oxide During Cryosurgery (January 1999)

2000-119 Alert: Preventing Worker Injuries and Deaths from Explosions in Industrial Ethylene Oxide Sterilization Facilities (April 2000)

2001-115 Glutaraldehyde: Occupational Hazards in Hospitals

2001-116 Health Hazard Evaluations: Tuberculosis, 1990 to 1999

Hydraulic hoses

93-105 Alert: Preventing Injuries and Deaths from Metal-Reinforced Hydraulic Hoses (May 1993)

Indoor air quality

91-114 Building Air Quality: A Guide for Building Owners and Facility Managers

98-123 Building Air Quality: Action Plan

Logging

95-101 Alert: Preventing Injuries and Deaths of Loggers (December 1994)

Meatpacking

95-102 Update: NIOSH Finds Effective Interventions to Reduce Ergonomic Injuries in Meatpacking and Other Industries (January 6, 1995)

Mercury

99-111 HID 6: Exposure to Mercury Vapor During the Use of Mercury Carburetor Synchronizers (June 1999)

Methylene chloride

86-114 CIB-46: Methylene Chloride (April 1986)

4,4'-Methylene-dianiline

86-115 CIB-47: 4,4-Methylenedianiline (MDA) (Revised) (July 1986)

Mining

98-150 HC 27: New Shroud Design Controls for Silica Dust from Mine and Construction Blast Hole Drills (November 1998)

Monohalomethanes

84-117 CIB-43: Monohalomethanes, Methyl Chloride, Methyl Bromide, Methyl Iodide (September 1984)

Motor vehicles

- | | |
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| 98-142 | Alert: Preventing Worker Injuries and Deaths from Traffic-Related Motor Vehicle Crashes (July 1998) |
| 2001-128 | Building Safer Highway Work Zones: Measures to Prevent Worker Injuries From Vehicles and Equipment |

Needlesticks (see also Health care)

- | | |
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| 2000-108 | Alert: Preventing Needlestick Injuries in Health Care Settings (November 1999) |
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NIAX® catalyst ESN

- | | |
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| 78-157 | CIB-26; NIAX® Catalyst ESN . . . a Mixture of Dimethylaminopropionitrile and Bis[2(dimethylamino)ethyl] Ether (May 1978) |
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Noise

- | | |
|------------------------------|---|
| With National Safety Council | Pamphlets: Sound Advice—Protect Your Ears in Noisy Work |
| With National Safety Council | Environments Pamphlet: Listen Up! Learn How to Protect Your Hearing |
| 96-110 | Preventing Occupational Hearing Loss: A Practical Guide |
| 98-126 | Criteria for a Recommended Standard: Occupational Noise Exposure |
| 99-106 | Health Hazard Evaluations: Noise and Hearing Loss, 1986 to 1997 |

Phosphine

- | | |
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| 99-126 | Alert: Preventing Phosphine Poisoning and Explosions During Fumigation (September 1999) |
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Powder dye

- | | |
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| 97-107 | HC 13: Control of Dust from Powder Dye Handling Operations (April 1997) |
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Powered engines and tools (small gasoline)

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| 96-118
96-118a | Alert: Preventing Carbon Monoxide Poisoning from Small Gasoline-Powered Engines and Tools, (November 1996) |
|-------------------|--|

87-107	CIB-49: Injuries and Amputations Resulting from Work with Mechanical Power Presses (May 1987)	Power presses
93-117	Update: NIOSH Warns of Deadly Carbon Monoxide Hazard from Using Pressure Washers Indoors (May 10, 1993)	Pressure washers
97-137	HC 15: Control of Ergonomic Hazards from Squeezing Handles in the Screen-Printing Industry (June 1997)	Printing
98-107	HC 24: Controlling Cleaning-Solvent Vapors at Small Printers (December 1997)	Printing
99-129	HID 7: Fire Fighting Hazards During Propane Tank Fires (June 1999)	Propane
89-111	CIB-51: Carcinogenic Effects of Exposure to Propylene Oxide (July 1989)	Propylene oxide
MP-115	Reproductive Hazards in the Workplace	Reproductive health
96-132	The Effects of Workplace Hazards on Male Reproductive Health	Reproductive health
99-104	The Effects of Workplace Hazards on Female Reproductive Health	Reproductive health
93-127	Update: NIOSH Warns Workers about Explosive Respirator Cylinders (August 2, 1993)	Respirators
85-104	Alert: Preventing Electrocutions of Workers in Fast Food Restaurants (December 1984)	Restaurants (fast food)

Robots

85-103 Alert: Preventing the Injury of Workers by Robots (December 1984)

Sealers and heaters

80-107 CIB-33: Radiofrequency (RF) Sealers and Heaters: Potential Health Hazards and Their Prevention (December 1979)

Silica

81-137 CIB-36: Silica Flour: Silicosis (Crystalline Silica) (June 1981)

93-123 Update: NIOSH Issues Nationwide Alert on Silicosis (November 18, 1992)

93-124 Update: Prevention of Silicosis Deaths (1993)

2000-113 HID-9: Respirable Crystalline Silica Exposures During Tack Pointing (November 1999)

2002-129 Hazard Review: Health Effects of Occupational Exposure to Respirable Crystalline Silica (April 2002)

Skid-steer loaders

98-117 Alert: Preventing Injuries and Deaths from Skid-Steer Loaders (February 1998)

Smoking

79-122 CIB-31: Adverse Health Effects of Smoking and the Occupational Environment (February 1979)

91-108 CIB-54: Environmental Tobacco Smoke in the Workplace: Lung Cancer and Other Health Effects (June 1991)

Solvents

87-104 CIB-48: Organic Solvent Neurotoxicity (March 1987)

Stress

99-101 Pamphlet: Stress At Work . . . (January, 1999)

2002-107 Traumatic Incident Stress: Information for Emergency Response Workers

Tetrachloroethylene (perchloroethylene) (see also Drycleaning)

78-112 CIB-20: Tetrachloroethylene (Perchloroethylene) (January 1978)

Toluene diisocyanate (TDI) and toluenediamine

90-101 CIB-53: Toluene Diisocyanate (TDI) and Toluenediamine (TDA) : Evidence of Carcinogenicity (December 1989)

o-Toluidine and aniline

90-116 Alert: Preventing Bladder Cancer from Exposure to o-Toluidine and Aniline (December 1990)

Trash collecting

97-110 Alert: Preventing Worker Injuries and Deaths from Moving Refuse Collection Vehicles (May 1997)

Tree trimming

92-106 Alert: Preventing Falls and Electrocutions During Tree Trimming (August 1992)

93-122 Update: NIOSH Issues Nationwide Alert on Dangers of Tree Trimming (December 7, 1992)

Trimellitic anhydride

78-121 CIB-21: Trimellitic Anhydride (TMA) (February 1978)

Vibration

83-110 CIB-38: Vibration Syndrome (March 1983)

Vinyl halides

79-102 CIB-28: Vinyl Halides Carcinogenicity: Vinyl Bromide, Vinyl Chloride, Vinylidene Chloride (September 1978)

Violence

93-109 Alert: Preventing Homicide in the Workplace (September 1993)

94-101 Update: NIOSH Urges Immediate Action to Prevent Workplace Homicides (October 25, 1993)

96-100 CIB-57: Violence in the Workplace: Risk Factors and Prevention Strategies (June 1996)
Streams to Prevent or Control Ignition of Flammable Atmospheres (July 1985)

Washed cotton

95-113 CIB-56: Washed Cotton: A Review and Recommendations Regarding Batch Kier Washed Cotton (August 1995)

Water spray (fog)

85-112 Alert: Preventing Hazards in the Use of Water Spray (Fog) Streams to Prevent or Control Ignition of Flammable Atmospheres (July 1985)

Wood dust

96-121 HC 4: Control of Wood Dust from Horizontal Belt Sanders (September 1996)

96-122 HC 5: Control of Wood Dust from Shapers (September 1996)

96-123 HC 6: Control of Wood Dust from Automated Routers (September 1996)

96-124 HC 7: Control of Wood Dust from Large Diameter Disc Sanders (September 1996)

96-125 HC 8: Control of Wood Dust from Random Orbital Hand Sanders (September 1996)

96-126 HC 9: Control of Wood Dust from Orbital Hand Sanders (September 1996)

96-127 HC 10: Control of Wood Dust from Table Saws (September 1996)

For more information about the occupational safety and health issues facing small businesses, contact NIOSH. Additionally, you may be interested in the NIOSH publication, *Identifying High-Risk Small-Business Industries: The Basis for Preventing Occupational Injury, Illness and Fatality* (Publication no. 99-107).

For more information about this and other NIOSH small business documents call:
1-800-35-NIOSH (1-800-356-4674)

- 1,3-Butadiene 36
 4,4'-Methylene-dianiline 44
 A.M. Best Safety and Security Directory 33
 Acetaldehyde and malonaldehyde/aldehydes 36
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