



# HEALTH AND SAFETY

## G U I D E S

July 1998

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*The Health and Safety Committee has compiled resources related to regulatory, research, and toxicological information that we believe conservators will find useful in their work. This document includes a list of relevant books, selected because of reference information that can assist conservators as they evaluate specific workplace hazards. It also provides URLs for accessing professional and standards/reference organizations, as well as pertinent government agencies on the Internet.*

*The Bibliography and Technical Resource List are meant to be reference guides, helping conservators to navigate the existing literature as it pertains to health and safety hazards and general legal requirements. While every effort will be made to update these listings as needed, the Committee cannot guarantee that every address published here will be accessible or current. Our intent is to make important health and safety information accessible to the entire AIC membership, giving individual conservators the tools by which they can begin to answer some of their own health and safety questions.*

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### HEALTH AND SAFETY TECHNICAL RESOURCES FOR THE CONSERVATOR

#### ELECTRONIC RESOURCES

This list is intended as a starting point for conservators seeking regulatory, research, or other toxicological information relating to health and safety in the workplace. Internet access has created an ever-changing set of resources, many with multiple links to other useful sites. World wide web sites for organizations and agencies within this list have been included, where available. Although every effort will be made to update the Internet listings annually, we cannot guarantee that every address will be accessible, or still current, in the interim. A few excellent doorways to related sites include:

◆ Occ-Env-Med resources at Duke University Medical Center, which administers a web site with occupational health & safety information from many sources, including a link to listings of occupational health clinics, and to many other valuable government and professional

organization sites. Duke also manages a list serve, which is an international forum for clinicians and public health professionals involved in occupational and environmental medicine. Access either through: <http://occ-env-med.mc.duke.edu/oem/index2.htm>

◆ *Elements*, an on-line magazine for research in conservation and preservation; has a "Health and Safety Page" at <http://www.b72.com>

◆ Conservation OnLine (CoOL) Health and Safety Section at <http://palimpsest.stanford.edu/bytopic/health/>

◆ Both ACTS and Center for Safety in the Arts web sites are valuable; see their listings below under "Specialized Consulting Organizations."

◆ Christie Communications' Safety Related Internet Resources,

<http://www.mrg.ab.ca/christie/safelist.htm>

- ◆ New Jersey Department of Health and Senior Services Hazardous Substances Fact Sheets at <http://www.state.nj.us/health/eoh/rtkweb/rtkhs-fs.htm>
- ◆ Lab Safety Supply Co.'s "EZFacts" can be ordered by fax or on-line (bypassing ads) at <http://www.labsafety.com/techhelpctr/thcez-facts/ezfintro.htm>

There exist many for-fee publishers of health and safety information on CD-ROM or on-line, which are not listed here to avoid the appearance of endorsement. However, one service is worth mentioning, is accessible through university or medical school libraries, and soon may expand its public domain databases:

MEDLARS, TOXNET, and Grateful Med Databases, managed through the National Library of Medicine, (888) 346-3656.

## **PROFESSIONAL AND STANDARDS/REFERENCE ORGANIZATIONS**

### **AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION**

656 Quince Orchard Rd.  
Gaithersburg, MD 20878  
(301) 670-1377

Sources of standards for accreditation and list of accredited laboratories in all scientific disciplines; reciprocal acceptance with Canada.

### **AMERICAN ASSOCIATION OF OCCUPATIONAL HEALTH NURSES (AAOHN)**

50 Lenox Pointe  
Atlanta, GA 30324  
(609) 848-1000 or (800) 257-8290

Administers a national certification program, and maintains roster, for nurses specializing in the field of occupational health.

### **AMERICAN BOARD OF INDUSTRIAL HYGIENE (ABIH)**

4600 W. Saginaw, Ste. 101  
Lansing, MI 48917

(517) 321-2638

<http://www.ABIH.org>

Establishes professional industrial hygiene certification criteria, maintains listing of Certified Industrial Hygienists (CIH), references for accredited college and graduate level degree programs in industrial hygiene.

### **AMERICAN COLLEGE OF OCCUPATIONAL AND ENVIRONMENTAL MEDICINE (ACOEM)**

55 W. Seegers Rd.  
Arlington Heights, IL 60005  
(708) 228-6850

Locations of occupational medical clinics and clinicians; information on accreditation and training requirements; publishes *Journal of Occupational Medicine*; and other literature resources. See also: Association of Occupational and Environmental Clinics.

### **AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH)**

6500 Glenway, Building D-7  
Cincinnati, OH 45211  
(513) 742-2020  
<http://www.ACGIH.org>

Major consensus-setting organization within the field of industrial hygiene and occupational/environmental safety and health. Source of annually updated recommended exposure guidelines for wide variety of chemical and physical agents (Threshold Limit Values: TLVs). Publishes biological monitoring guidelines, reference materials, training aids.

### **AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)**

11 West 42nd St., 13th Floor  
New York, NY 10036  
(212) 642-4915  
<http://www.ansi.org>

Source of professional consensus standards often adopted into regulations. Excellent guidance in areas of respiratory protection and ventilation.

### **ASSOCIATION OF OCCUPATIONAL AND ENVIRONMENTAL CLINICS**

1010 Vermont Ave., NW, #513  
Washington, DC 20005

(202) 347-4976  
<http://152.3.65.120/oem/aoec.htm>  
Extensive listing of U.S. clinics by state; related research projects.

**AMERICAN PUBLIC HEALTH ASSOCIATION (APHA)**

1015 15th St., NW  
Washington, DC 20005  
(202) 789-5600  
<http://www.apha.org>  
Leading professional organization for all public health disciplines; includes an occupational health section.

**AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS (ASHRAE)**

1791 Tullie Circle NE  
Atlanta, GA 30329  
(404) 636-8400  
Publishes variety of engineering consensus standards, including widely accepted performance standards for building and laboratory ventilation, and indoor air quality.

**AMERICAN SOCIETY OF SAFETY ENGINEERS**

1800 E. Oakton St.  
DesPlaines, IL 60018  
(847) 699-2929  
<http://www.asse.org>  
Leading professional organization in the occupational safety field; publications, training aids, technical assistance.

**BOARD OF CERTIFIED SAFETY PROFESSIONALS**

208 Burwash Ave.  
Savoy, IL 61874  
(217) 359-9263  
Establishes professional occupational safety specialist certification criteria, maintains listing of Certified Safety Professionals (CSP).

**HEALTH PHYSICS SOCIETY**

8000 Westpark Dr., Ste 130  
McLean, VA 22102  
(703) 790-1745  
Leading professional organization in the field of radiation health physics; administers certification

program and maintains list of Certified Health Physicists (CHP).

**ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA**

345 E. 47th St.  
New York, NY 10017  
(212) 705-7913  
Source of consensus standards on illumination levels and devices appropriate to type of building, activity, and task.

**NATIONAL COUNCIL ON ERGONOMICS**

<http://www.NCERGO.org/>

**NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS**

7910 Woodmont Ave., Ste 800  
Bethesda, MD 20814  
(301) 657-2652  
Professional consensus organization disseminating information on and recommendations for radiation measurement criteria and guidelines for protection.

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**

Batterymarch Park, P.O. Box 9101  
Quincy, MA 02269-9101  
(800) 344-3555  
<http://www.nfpa.org>  
Source of national fire codes and supplemental explanatory handbooks such as *Flammable & Combustible Liquids Code Handbook*, *Fire Protection Handbook*, and *Fire Protection Guide on Hazardous Materials*.

**NATIONAL SAFETY COUNCIL**

1121 Springlake Dr.  
Itasca, IL 60143  
(800) 621-7619  
<http://www.nsc.org>  
Source of training and information on safety and health issues, including publications.

**RADIATION SAFETY AND HEALTH PHYSICS HOMEPAGE**

<http://www.sph.umich.edu/group/eih/UMSCH-PS/index.html>

### **SAFETY EQUIPMENT INSTITUTE (SEI)**

McLean, VA

(703) 442-5732

<http://www.SEInet.org>

Leading third party certifier of safety and personal protective equipment; maintains listings of items that have been tested and meet the appropriate product standards (ANSI, ASTM, NFPA, NIOSH, etc.), and the manufacturing facilities met SEI quality assurance requirements.

### **SPECIALIZED CONSULTING ORGANIZATIONS**

#### **ARTS, CRAFTS, & THEATER SAFETY (ACTS)**

181 Thompson St., No. 23

New York, NY 10012-2586

(212) 777-0062

ATTN: Monona Rossol

<http://www.caseweb.com/acts/>

[ACTS@CaseWeb.com](mailto:ACTS@CaseWeb.com)

Health and safety data, lectures, and training related to museums and other cultural activities. Ms. Rossol serves as consultant to the AIC Health and Safety Committee.

#### **CENTER FOR SAFETY IN THE ARTS**

2124 Broadway, P.O. Box 310

New York, NY 10023

ATTN.: Dr. Michael McCann, Angela Babin

<http://artswire.org:70/1/csa>

e-mail: [csa@artswire.org](mailto:csa@artswire.org)

Source of data sheet series on Museum and Conservation Health Hazards and Controls, numerous publications, consulting and training services, and *Art Hazards News*.

### **PERTINENT GOVERNMENT AGENCIES**

#### **NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS**

7910 Woodmont Ave., Ste 800

Bethesda, MD 20814

(301) 657-2652

#### **NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)**

Department of Commerce

5285 Port Royal Rd.

Springfield, VA 22161

(703) 487-4650

#### **U.S. DEPT. OF THE INTERIOR, NATIONAL PARK SERVICE**

Museum Management Division

P.O. Box 37127, Ste. 580

Washington, DC 20013-7127

(202) 343-8138

Source of *Museum Handbook*. Particularly useful is Part 1, "Museum Collections," and "Conserv-o-gram" series containing safety and health information and practical control recommendations.

### **U.S. DEPARTMENT OF LABOR**

#### **OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)**

200 Constitution Ave NW

Washington, DC 20210

(202) 219-8148

(202) 219-8902 (on-site consultation service)

<http://www.osha.gov>

Consult website for locations of individual area offices and consultation offices; standards and standards interpretation; AOC is a detailed database on chemical hazard information, and new site on ergonomics at <http://www.osha-slc.gov/ergo/>

Promulgates and enforces safety and health regulations for most businesses and industries in the United States. Maintains regional and area offices; many states also manage their own federally-approved occupational safety and health plan. Publishes helpful booklets summarizing standards. Offers free, confidential on-site consultation services to small businesses and organizations.

#### **U.S. DEPARTMENT OF TRANSPORTATION**

400 7th St., SW

Washington, DC 20590

(202) 366-4000

(202) 366-0656: Office of Hazardous Materials Transportation

(202) 366-4488: Transportation of Hazardous Materials Hotline

Promulgates and enforces national transportation regulations, including shipment of hazardous materials.

**U. S. ENVIRONMENTAL PROTECTION AGENCY (EPA)**

401 M St. SW  
Washington, DC 20460  
(202)260-4700  
<http://www.epa.gov> (Consult website for more hotlines on specific environmental topics)  
Other useful site:  
<http://epa.gov/ngispgm3/iris> (for IRIS, the EPA's database on environmental toxicity of various chemicals)

Administers laws to control/reduce pollution of air, water, and land; regulates use and labeling of pesticides. Administered primarily at state level.

National Pesticide Telecommunications Network is a toll-free U.S. EPA-and-Oregon State University sponsored information service on a wide-variety of pesticide-related subjects, including products, poisonings and emergencies, toxicology, environmental chemistry, safety practices, clean-up and disposal, and laboratory analysis. It is open to the public and professionals. Operating hours are from 6:30 a.m. to 4:30 p.m. Pacific Time.  
(800) 858-7378  
[nptn@ace.orst.edu](mailto:nptn@ace.orst.edu)  
<http://ace.orst.edu/info/ntp>

**U.S. GOVERNMENT PRINTING OFFICE (GPO)**

Washington, DC 20402-9325  
(202) 783-3238  
Source of government documents, at reasonable cost. Code of Federal Regulations (Daily *Federal Registers*) can be accessed online at:  
<http://www.access.gpo.gov/nara/index.html>

**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (DHHS)**

Important DHHS agencies include:

1. Agency for Toxic Substances and Disease Registry

2. Centers for Disease Control and Prevention
  - a. National Center for Environmental Health
  - b. National Institute for Occupational Safety and Health
3. National Institutes of Health
  - a. National Cancer Institute
  - b. National Institute of Environmental Health Sciences
  - c. National Toxicology Program
4. National Library of Medicine

These programs are described below, and can be accessed through their individually listed websites, or through the DHHS Home Page (<http://www.hhs.gov>), click on "About HHS," then [HHS Agencies on Internet].

**AGENCY FOR TOXIC SUBSTANCE AND DISEASE REGISTRY (ATSDR)**

1600 Clifton Rd., NE (E-33)  
Atlanta, GA 30333  
(404) 639-6204  
<http://atsdr1.atsdr.cdc.gov:8080>  
Agency maintains health hazard databases, including environmental fate of chemical releases, pesticide profile sheets, and HazDat, the ATSDR's Hazardous Substance Release/Health Effects Database.

**CENTERS FOR DISEASE CONTROL**

1600 Clifton Rd., NE  
Atlanta, GA 30333  
(404) 639-8063  
<http://www.cdc.gov>

**NATIONAL CENTER FOR ENVIRONMENTAL HEALTH**

Research on environmental public health issues; access through CDC web site.

**NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)**

200 Independence Ave., SW, Rm. 317B  
Washington, DC 20210  
(800) 356-4647; For technical information.

publications or to request a Health Hazard Evaluation of your workplace  
(513) 533-8326: For information on health & safety databases  
(304) 291-4331: For information on respirators  
(513) 533-8241: For locations of Educational Resource Centers  
<http://www.cdc.gov/niosh/homepage.html>  
Conducts research and training in occupational safety and health issues; certifies respirators; issues health hazard alerts and other publications; conducts health hazard evaluations upon employer or employee request; maintains extensive databases. Funds Educational Research Centers located at many universities across the country, providing training courses and information to employees and employers.

#### **NATIONAL INSTITUTES OF HEALTH**

9000 Rockville Pike  
Bethesda, MD (and other sites across the nation)  
(301) 496-5583  
<http://www.nih.gov>

#### **NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES**

Research Triangle Park, NC  
(919) 541-3345  
<http://ehis.niehs.nih.gov>  
Information on adverse effects of environmental factors on human health. Administers the National Toxicology Program, and various databases.

#### **NATIONAL CANCER INSTITUTE**

(301) 496-5583  
<http://www.nci.nih.gov>

#### **NATIONAL LIBRARY OF MEDICINE**

(888) 346-3656  
<http://www.nlm.nih.gov>

## **INTERNATIONAL REGULATORY AND PROFESSIONAL ORGANIZATIONS**

#### **CANADIAN CENTRE FOR OCCUPATIONAL HEALTH AND SAFETY**

250 Main St., East  
Hamilton, Ontario L8N 1H6  
Canada  
(905) 572-4400 (Technical Assistance)  
(800) 263-8276  
<http://www.ccohs.ca>  
Tripartite (government, industry, labor) organization for development and recommendation of safety and health standards for the workplace; resource organization for publications, fact sheets, training materials; information on occupational medical clinics, professional organizations, and standards throughout all provinces.

#### **INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC)**

150 cours Albert Thomas, F-69372  
Lyon cedex 08, France  
+33(0)4 72 73 84 85  
<http://www.iarc.fr>  
Agency of the World Health Organization; publishes international consensus documents evaluating hazardous substances relative to ability to cause cancer.

#### **INTERNATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS**

See National Council on Radiation Protection and Measurements, preceding section, this appendix.

#### **INTERNATIONAL LABOUR OFFICE**

4, route des Morillons  
CH 1211 Geneva 22  
Switzerland  
+41 22 799 67 40  
Major international resource for research and technical assistance on issues of workplace safety and health. Edits and publishes the standard reference *Encyclopaedia of Occupational Health and Safety*.

**INTERNATIONAL OCCUPATIONAL  
HYGIENE ASSOCIATION**

Secretariat: British Occupational Hygiene  
Society  
Ste. 2, Georgian House  
Great Northern Road  
Derby, DE1 1LT  
United Kingdom  
44-332-298-101  
Professional organization representing industrial/occupational hygiene interests and

resources world-wide; board member contacts from the following countries: Australia, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Italy, Japan, the Netherlands, Norway, Spain, Sweden, Switzerland, UK, and US.

**INTERNATIONAL SAFETY COUNCIL**

See National Safety Council, preceding section, this appendix.

**HEALTH & SAFETY COMMITTEE  
SUGGESTED READINGS**

**SOURCES**

Call for catalogs and other information

**NIOSH PUBLICATIONS  
(800) 35-NIOSH**

**NSC (NATIONAL SAFETY COUNCIL)  
(708) 285-1121**

**ACGIH (AMERICAN CONFERENCE OF  
GOVERNMENTAL INDUSTRIAL  
HYGIENISTS)  
(513) 742-2020, or HYPERLINK  
"www.aggh.org" www.acgh.org**

**AIHA (AMERICAN INDUSTRIAL HYGIENE  
ASSOCIATION)  
(703) 849-8888**

**NFPA (NATIONAL FIRE PROTECTION  
ASSOCIATION)  
(800)-344-3555**

**ACTS (ARTS, CRAFTS, AND THEATER  
SAFETY)  
(212)-777-0062  
HYPERLINK "www.caseweb.com/acts"  
www.caseweb.com/acts**

CSA (Center for Safety in the Arts)  
See *Arts Hazards News*

**AMAZON  
HYPERLINK "http://www.amazon.com"  
http://www.amazon.com**

**BEST (A.M. BEST CO)  
(201)-439-2200**

**ANSI (AMERICAN NATIONAL  
STANDARDS INSTITUTE)  
(212)-642-4900.**

**COLE-PARMER  
(800)-323-4340  
LABELMASTER  
(800)-621-5808**

**LAB SAFETY SUPPLY  
(800)-356-0783**

**VWR  
(800)-234-9300 (Philadelphia)**

**VAN NOSTRAND REINHOLD  
(800)-842-3636**

**U.S. GOVERNMENT  
PUBLICATIONS**

An organization must first determine if it is regulated under state or federal OSHA rules. State regulated organizations should contact their state OSHA for publications and compliance materials. Those under the federal law should have sections of the Code of Federal regulations (CFR) that apply to their work. These are 29 CFR 1900-1910 (General Industry Standards) and 29 CFR 1926 (Construction Standards). Source:

1. Call your local OSHA Office for obtaining copies.

2. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954; (202) 512-1800
3. Lab Safety Supply Co.  
Suggested: For general OSHA compliance for small businesses: *OSHA Handbook for Small Businesses*, U.S. Department of Labor, 1993, OSHA No.2209 (revised). (GPO order #029-016-001-441).

## GENERAL SAFETY AND FIRE PREVENTION

*Best's Safety Directory*

A. M. Best Co.

Comprehensive listing of suppliers & manufacturers of safety and health products, includes summaries of pertinent OSHA standards. Published yearly.

National Fire Protection Association

Obtain catalog of the 270 codes. Choose pertinent codes such as:

NFPA#909 Protection Cultural Resources

NFPA#914 Fire Protection in Historic Structures

NFPA#30 Flammable and Combustible Liquids Code.

NFPA#101 Life Safety Code

NFPA #45 Fire Protection for Laboratories Using Chemicals

Three important codes are published in an expanded and annotated handbook version:

*Flammable and Combustible Liquids Code Handbook*, 1997 ed., NFPA

*1996 National Electric Code & Handbook*, NFPA

*Life Safety Code Handbook*, NFPA

Not a code, but an important reference: *Fire Protection Handbook*, 18th ed., 1997, NFPA  
*accident Prevention Manual for Business and Industry*, 11th ed, 3 vols. 1996 National Safety Council

Vol 1: *Administration & Programs*. by Gary Krieger and John F. Montgomery, eds. 11th ed October 1996

Vol 2: *Engineering & Technology*, 11th ed, June 1997

*Environmental Management*, January 1995  
*Security Management*, Richard W. Lack, ed, June 1997.

Overly detailed for most conservation practices, however it is a standard safety reference.

*Ergonomics: A Practical Guide*, 2d ed. 1993  
National Safety Council

ANSI standards for performance of safety and protective equipment. For example, ANSI Z358.1-1990 for eye wash fountains and emergency showers or ANSI Z87.1-1989 for face and eye protection. Available from ANSI,

## INDUSTRIAL HYGIENE/ OCCUPATIONAL HEALTH

*Fundamentals of Industrial Hygiene*, 4th ed.  
Barbara Plog, ed., June 1996, National Safety Council

Good basic reference on occupational health hazards, detection, and control.

*Respiratory Protection: A Manual and Guideline*, 2d ed., 1991 AIHA Respiratory Protection Committee

Complete overview of all levels of respiratory protection devices and program elements.

*Noise & Hearing Conservation Manual*, 4th ed., 1986 AIHA Noise Committee

Basic reference on theory of noise sources, monitoring, and control; establishing hearing conservation program; selecting hearing protection.

*Patty's Industrial Hygiene and Toxicology*, 4th ed., 3 vols. Clayton & Clayton, ed., John Wiley & Sons.

Prohibitively expensive for conservators (\$1800), it is nevertheless a definitive reference source on the topic. This is an encyclopedia including principles of industrial hygiene details of workplace stressors. Each vol is in several parts, 10 total parts.

*Casarett & Doull's Toxicology*, 5th ed., 1995 C. D. Klaassen, ed. McGraw-Hill

General principles of toxicology of poisons, toxic substances and environmental pollutants.

*NIOSH Pocket Guide to Chemical Hazards*  
Government Printing Office, 1990 Spiral  
bound paperback; Reprint version by Diane  
Pub Co, 199.

Handy affordable guide to the properties, haz-  
ards, and remediation of 600 of the more com-  
mon chemical substances. Also on disk from  
ACGIH, publication 9340W.

*ACGIH Threshold Limit Values and Biological  
Exposure Indices*, 1997, ACGIH.

Primary source for TLVs. Revised every year,  
based on the values and indices recommend-  
ed by the major consensus-setting profession-  
al industrial hygiene organization.

*Encyclopaedia of Occupational Health and  
Safety*, 4th rev. ed., 4 vols., McGraw Hill,  
International Labour Organization. In press.  
Covers all aspects of occupational health  
including art and conservation. Projected pub-  
lication at the end of 1997.

*Chemical Hazards of the Workplace*, 4th ed.  
Proctor & Hughes, 1996, VNR.  
Classic reference for over 540 substances.

*Occupational Medicine*, 3d ed., 1994, Zenz,  
Dickerson, Horvath, eds. Mosby-Year Book  
Classic reference.

*First Aid Manual for Chemical Accidents*, 2d  
ed., M. Lefevre, 1989, Van Nostrand  
Reinhold.

For first responders, organized by chemical  
class, then by route of contact (inhalation,  
ingestion, skin contact, splashing of liquid or  
contact of vapor with eyes).

## HAZARDOUS MATERIALS REFERENCES

*Hawley's Condensed Chemical Dictionary*,  
13th ed., 1997, revised by Sax, N. Irving and  
Lewis, Sr. Richard, Van Nostrand-Reinhold.  
Brief description, properties, hazards, and  
uses of chemicals. Basic reference, applica-  
ble to every lab.

*Colour Index International*, 3d. ed, 1971-1992,  
9 vols.

Available from Society of Dyers and  
Colourists, POB 244 Perkin House, 82  
Grattan Rd, Bradford, BD1 2JB, England; 44  
(0) 1274 725138; fax: 44 (0) 1274 392888.  
CDROM version is 450 GBP + VAT. Inquire  
for hardcopy price. Information also from  
HYPERLINK mail to:  
"paul@colourit.demon.co.uk"  
paul@colourit.demon.co.uk

*Merck Index*, 12th ed., 1996, Susan Budavari,  
et al, eds., Merck & Co.

Book and cd available from Chapman & Hall  
Publishers.

Description, properties, structure, derivation of  
more than 10,000 chemicals, drugs, and bio-  
logical substances. Basic reference, more  
applicable to larger labs.

*Dangerous Properties of Industrial Materials*,  
3 vols., 9th ed., Sax, N.I. and R.J. Lewis, Sr. ,  
Jan 1996. Van Nostrand-Reinhold Co.

Excellent source of information on chemical  
descriptions, hazards, standards, etc. Labs  
should at least identify an accessible library  
which has this expensive reference.

*Hazardous Substance Fact Sheets*, New  
Jersey Department of Health, CN 368,  
Trenton, N.J. 08625-0368; (609) 984-2202.  
Excellent fact sheets on several hundred individ-  
ual chemicals that list hazards, physical con-  
stants, regulatory requirements, and odor  
thresholds when known.

*The MSDS Pocket Dictionary*, Genium  
Publishing Corp., Schenectady. Rev., 1994.

A dictionary of terms used on Material Safety  
Data Sheets. They also have other little hand-  
books and booklets in Spanish. For a publica-  
tion list contact Genium Publishing at 1146  
Catalyn St., Schenectady, NY 12303-1836;  
(518) 377-8854.

*Hazardous Chemicals Desk Reference*, 4th ed.,  
R. Lewis, 1996 Van Nostrand Reinhold  
Based on Sax. 6000 substances, 900 new to this  
ed. Affordable; a must.

## LABORATORY SAFETY

*Prudent Practices in the Laboratory: Handling and Disposal of Chemicals*. 1995, National Research Council, National Academy Press. Completely revised and merged edition of the excellent "Prudent Practices" series on handling hazardous chemicals in labs and disposal of chemicals from laboratories.

*CRC Handbook of Laboratory Safety*, 4th ed. A. Keith Furr, ed., 1995.  
The definitive reference for all laboratories.

*Destruction of Hazardous Chemicals in the Laboratory*, G. Lunn, 1994, John Wiley & Sons.  
How to use chemical reactions to deactivate or neutralize dangerous chemicals.

"Safety in Academic Chemistry Laboratories," 6th ed., 1995.  
Primarily for chemistry students, it is a useful, compact overview that will benefit conservators also. Single copies free from American Chemical Society, 1155 16th St., NW, Washington, DC 20036.

*Safe Storage of Laboratory Chemicals*, 2d ed. 1991, D. Pipitone, John Wiley and Sons.  
For labs with a larger variety of incompatible chemicals.

*Bretherick's Handbook of Reactive Chemical Hazards: An Indexed Guide to Published Data*. 5th ed., 1995, 2 vols., Butterworth-Heinemann.  
4600 main entries, especially concerns explosive or flammable interactions.

*Guidelines for Laboratory Design: Health and Safety Considerations*, 2d. ed. 1993, Louis DiBerardinis, et al, John Wiley & Sons.  
Important design guidelines.

*Laboratory Fume Hoods: A User's Manual*, 1993, Thomas Saunders, John Wiley & Sons  
A true user's manual of trouble shooting, repair, and safe use.

## PESTICIDES & FUMIGANTS

*Handbook of Pesticide Toxicology* 1991, Hayes, W.J., Jr., and E.R. Laws, Jr. (eds.), 3 vols., Academic Press.  
Covers general principles of pesticide toxicology, effects of pesticide classes, and data on 256 compounds that have documented human effects.

Linnie, M.J. 1990. "Conservation: Pest Control in Museums: The Use of Chemicals and Associated Health Problems," *International Journal of Museum Management and Curatorship* 9: 419–33.  
Provides an overview to many of the chemicals currently used in museums and their documented health effects.

Rossol, M., and W.C. Jessup. 1996. "No Magic Bullets: Ethical Considerations for Pest Management Strategies," *International Journal of Museum Management and Curatorship* 15 (2): 145–68.  
This paper provides a cohesive and authoritative understanding of the ethical, legal, and regulatory aspects of pest management which must be considered when selecting treatments.

## ART / CONSERVATION HAZARDS

*ACTS FACTS*. Arts, Crafts, and Theater Safety.  
A monthly newsletter updating health and safety regulations and research affecting the arts. Available from ACTS, Attn: M. Rossol, 181 Thompson St., #23, New York, NY 10012. \$15/year for 12 issues.

*Arts Hazards News*, Center for Safety in the Arts, New York.  
A newsletter covering various topics related to health and safety in the arts. Each year they publish a "Special Resources Issue" which lists occupational clinics, OSHA offices and other agencies. Available from CSA, 5 Beekman St., 10th Floor. New York, NY 10038, no phone access. \$24/year for 4 issues.

*The Artists Complete Health and Safety Guide*, 2d ed., 1994, Monona Rossol, Allworth Press, New York

A guide to safety and OSHA compliance for those using paints, pigments, dyes, metals, solvents, and other art and craft materials. Affordable, basic reference for conservators and artists.

*Artist Beware*, 2d. ed. 1993, M. McCann, Lyons and Burford.

Affordable, basic reference for conservators and artists.

*Safety in Museums and Galleries*, Howie, F.M., ed., 1987, Butterworth and Co., Ltd. London.

Although out-of-print, this reference has useful information on hazards and precautions. While many of the chapters relate specifically to safety and health programs established under British laws for British museums, the general discussions of the variety of the hazards associated with museum work are useful for museums all over the world.

Fenn, J. 1987. "Danger in the Discovery Room," *Museum Quarterly: The Journal of the Ontario Museums Association* 16 (2): 8–11, 26.

An excellent overview of specific collections-related health hazards for natural history museums.

*Overexposure: Health Hazards in Photography*, 2d ed., 1991, Susan D. Shaw and Monona Rossol, Allworth Press

Essential for those working with photo chemicals.

and installations.

*Ventilation for Control of the Work Environment*, W. Burgess et al, 1989, John Wiley & Sons.

Companion book to *Industrial Ventilation*; details on design principles and performance testing.

*Quick Selection Guide to Chemical Protective Clothing*, 3d. ed., 1997, Forsberg & Mansdorf, Van Nostrand Reinhold.

Excellent pocket-size reference of 15 common glove and suit materials and their suitability with 600 chemicals; details on breakthrough times and permeation rates.

*ACGIH Guidelines for Selection of Chemical and Protective Clothing*, 3d ed. 1987, Schwoppe, et al, ACGIH, 2 vols.

Detailed data on selection criteria.

American Society of Heating, Refrigerating and Air-conditioning Engineers' ASHRAE 62-1989 "Ventilation for Acceptable Air Quality." Can be obtained from ASHRAE, 1791 Tullie Circle, N.E., Atlanta, GA 30329; (404)-636-8400.

Consensus standards for indoor air quality.

*The Health and Safety Committee expresses its appreciation to Monona Rossol and Wendy C. Jessup for contributing many invaluable annotated listings. Contact Ms. Rossol at Arts, Crafts, and Theatre Safety, (212) 777-0062 or Ms. Jessup at Wendy Jessup and Associates, Inc.; (703) 532-0788.*

## WORKPLACE CONTROLS

*Ventilation: A Practical Guide*, 1995 Clark, Cutter, and McGrane, Lyons and Burford, NY

An excellent guide to basic ventilation principles and step-by-step guidance for those who wish to evaluate, design, and build an adequate ventilation system.

*ACGIH Industrial Ventilation: A Manual of Recommended Practice*, 22d. ed., 1995, ACGIH

The definitive design source for ventilation systems; updated regularly, should be referenced in contract specifications for ventilation upgrades

Table 1. Health & safety publications

Title	Edition	Date	ISBN	List Price	Sources
Best's Safety Directory		1997	9996407926	49.95	Best, Amazon
Flammable and Combustible Liquids Code Handbook		1997		85.25	NFPA
1996 National Electric Code & Handbook		1996		85.25	NFPA
Life Safety Code Handbook				85.25	NFPA
Fire Protection Handbook	18			122.75	NFPA
Accident Prevention Manual for Business and Industry, v 1	11	1996	0879121912	99.95	NSC, Amazon
Accident Prevention Manual for Business and Industry, v 2	11	1997	0879121920	99.95	NSC, Amazon
Accident Prevention Manual for Business and Industry, environmental management		1995	087912170X	99.95	NSC, Amazon
Accident Prevention Manual for Business and Industry, security management		1997	087912198X	99.95	NSC, Amazon
Ergonomics: A Practical Guide	2	1993	0879121688	29.95	NSC, ACGIH, Amazon
Fundamentals of Industrial Hygiene	4	1996	0879121718	48.95	NSC, Amazon
Respiratory Protection:	2	1991		53.00	AIHA
Noise & Hearing Conservation Manual,	4	1986		58.00	AIHA
Patty's Industrial Hygiene and Toxicology,	4			1800.00	ACGIH, Amazon
Casaret & Doull's Toxicology	4			75.00	Amazon
NIOSH Pocket Guide to Chemical Hazards	5	1995	0071054766	20.00	Lab Safety
ACGIH Threshold Limit Values and Biological Exposure Indices		1993		11.00	Amazon, ACGIH
Encyclopedia of Occupational Health and Safety	4	1997	9997829883		Not yet available
Chemical Hazards of the Workplace	4	1997		99.95	ACGIH, Amazon
Occupational Medicine	3	1996	0442020503	185.00	ACGIH, Amazon
First Aid Manual for Chemical Accidents	2	1994	0801666767	57.95	Amazon, VWR, ACGIH
Hawley's Condensed Chemical Dictionary	13	1989	0442204906	124.95	Amazon, VWR, ACGIH
Merck Index	12	1997	0442023243	45.00	Amazon, VWR, ACGIH
Merck Index, Book and CDROM		1996	0911910123	280.00	VWR, Amazon
Dangerous Properties of Industrial Materials	12	1996	041275990X	500.00	Amazon
Hazardous Chemicals Desk Reference	4	1996	0442020252	119.95	ACGIH, Amazon
Prudent Practices in the Laboratory: Handling and Disposal of Chemicals		1996	0442023227		Amazon, Lab Safety
CRC Handbook of Laboratory Safety	4	1995	0309052297	54.95	Amazon
Destruction of Hazardous Chemicals in the Laboratory		1995	0849325188	129.00	Amazon, VWR
Safe Storage of Laboratory Chemicals	2	1994	047157399X	79.95	Amazon, Cole-Parmer
Brethrick's Handbook of Reactive Chemical Hazards,	5	1991	0471515817	115.00	Amazon, VWR
Guidelines for Laboratory Design	2	1995	0750615575	225.00	Amazon, VWR
Laboratory Fume Hoods		1993	0471554634	74.95	Amazon, ACGIH
Handbook of Pesticide Toxicology		1993	0471569356	44.95	Amazon, ACGIH
Pesticide Users' Health and Safety Handbook		1991	0123341604	495.00	Amazon
The Artists Complete Health and Safety Guide	2	1989	0442234872		Out of Print
Artist Beware	2	1994	1880559188	19.95	ACTS, Amazon
Overexposure	2	1993	1558211756	29.95	CSA, Amazon
Ventilation: A Practical Guide	2	1991	0960711864	18.95	CSA, Amazon
Industrial Ventilation: A Manual of Recommended Practice	22	1995	0941130444	18.95	CSA, Amazon
Ventilation for Control of the Work Environment		1995	093671297X	60.00	ACGIH
Quick Selection Guide to Chemical Protective Clothing	3	1989	047189219X	84.95	ACGIH
Guidelines for Selection of Chemical and Protective Clothing	3	1997	0442023774	25.95	ACGIH, Cole-Parmer
		1987	0936712732	52.00	ACGIH

Prices are subject to change, but are listed to give members an idea of the relative cost of the publications. Listed sources are not inclusive.