This document provides teachers with sources of information about the nature, hazards, detection, and control of asbestos. Because many school buildings include asbestos-containing materials, teachers and other school personnel must be aware of the potential dangers to students and to themselves and take steps to have asbestos hazards contained or eliminated. In addition, they should be able to enlighten students about the dangers of asbestos when the need arises. The references listed were located through an extensive search of the literature and publications of concerned organizations and agencies. Along with citations of federal laws and regulations and of documents on asbestos, a list of organizations and agencies offering services and information is presented. Also included is a brief guide on how to reduce exposure to asbestos in the schools. (Author/IRT)
SELECTED REFERENCES ON ASBESTOS:
ITS NATURE, HAZARDS, DETECTION, AND CONTROL
Asbestos is a family of fibrous minerals widely used in building and other construction industries (e.g., for strengthening cement and plastics, in insulation and sound absorption materials) and in the manufacture of many products. A potential health risk arises when asbestos fibers break free. If inhaled, they may lodge and remain in the lungs for a long period of time. Scientific studies show that persons heavily exposed to asbestos run a high risk of lung disease, including cancer.

The purpose of this document is to provide teachers with sources of information about the nature, hazards, detection, and control of asbestos. Because many school buildings include asbestos-containing materials, teachers and other school personnel must be aware of the potential dangers to students and to themselves and take steps to have asbestos hazards contained or eliminated. In addition, they should be able to enlighten students about the dangers of asbestos when the need arises in the instructional program. The references listed here were located through an extensive search of the literature and the publications of concerned organizations and agencies.

Contents

I. Federal Law, Rules, and Regulations Pertaining to Asbestos in Schools

II. Selected and Annotated Bibliography on Asbestos: Its Nature, Hazards, Detection, and Control

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Attachments:
A. "A Guide for Reducing Asbestos Exposure (in schools)"
B. U.S. Environmental Protection Agency Regional Asbestos Coordinators
C. National Institute for Occupational Health and Safety Regional Offices
D. U.S. Department of Health and Human Services Regional Health Administrators

May 1981
I. Federal Law, Rules, and Regulations Pertaining to Asbestos in Schools

Recognition of the potential health hazards from exposure to asbestos fibers and increasing use of asbestos in many products over the past several decades prompted the Congress to enact Public Law 96-270. The Asbestos School Hazard Detection and Control Act of 1980. The Department of Education (ED) has issued rules and regulations to implement PL 96-270. The U. S. Environmental Protection Agency (EPA) has issued proposed rules under the Toxic Substances Control Act which are closely coordinated with the ED rules.

U. S. 96th Congress, 2nd Session, Senate, Committee on Labor and Human Resources. Asbestos School Hazard Detection and Control Act of 1980. Senate Report No. 96-710, May 15, 1980. The report provides the legislative history on PL 96-270 and describes its provisions. "The purpose of this bill is to establish a program to help schools identify and control the exposure of school children and school personnel to potentially debilitating asbestos fibers in the ambient air. The bill provides for a two-tiered program of Federal assistance to schools -- first, through grants to local educational agencies, state educational agencies, and nonpublic schools to detect potential hazards in schools, and second, through loans to school districts and nonpublic schools to control detected hazards. The Department of Education would administer both components of the program.


Asbestos Detection and Control: Local Educational Agencies; Asbestos Detection and State Plan: State Educational Agencies." Federal Register, Vol. 46, No 11, Friday, January 16, 1981. pp. 4536-58. Final rules and regulations to implement the Asbestos School Hazard Detection and Control Act of 1980. The regulations establish procedures to make available (a) federal grants to assist local educational agencies (LEAs) and state educational agencies (SEAs) in the identification of asbestos hazards in school buildings, and (b) federal interest-free loans to LEAs to correct those hazards.

U. S. Environmental Protection Agency. "Friable Asbestos-Containing Materials in Schools: Proposed Identification and Notification." Federal Register, Vol. 45, No. 182, Wednesday, September 17, 1980. Part VI, pp. 61966-97. These EPA proposed rules and regulations, issued under the Toxic Substances Control Act, would require elementary/secondary school officials to inspect all school buildings for friable materials, have samples of friable materials analyzed for asbestos content, warn all employees and parent groups of the existence of asbestos materials, and provide instructions on how to reduce/avoid any health risks associated with asbestos and how to keep records of all actions taken to comply with the regulations. The EPA proposed rules were closely coordinated with those of the Education Department on PL 96-270. They include "A Guide for Reducing Asbestos Exposure" and an optional record-keeping form for certifying "Inspections for Friable Asbestos-Containing Materials." See Attachment A.
II. Selected and Annotated Bibliography on Asbestos:
Its Nature, Hazards, Detection, and Control

Agram, L. The Cancer Connection and What We Can Do About It. Boston: Houghton-Mifflin Co., 1977. 220 pp. The author, an attorney, draws attention to the fact that there have been recent increases in occupation-related cancers. He recommends a federally instituted cancer prevention agency consisting of scientists and attorneys. Its objectives would be to initiate and carry out programs that would protect the public from environmental carcinogens.

Asbestos Factbook. Willow Grove, Pa.: Asbestos (P.O. Box 471, Willow Grove 19090), 1970. 27 pp. The chemical and physical properties of asbestos, its production, consumption, mining locations, industrial grades from various sources, and application are concisely described with text and tables.

Becklake, M.R. "Asbestos-Related Diseases of the Lung and Other Organs: Their Epidemiology and Implications for Clinical Practice." American Review of Respiratory Disease 114: 187-227; July 1976. The characteristics of asbestos and methods of direct and indirect human exposure are comprehensively reviewed, along with the biological effects of inhaled or ingested asbestos particles. The epidemiology, pathology, diagnosis, and clinical management of asbestos-related benign and malignant diseases are also described.

Bogovskii, P.A., and Davis, W., editors. Biological Effects of Asbestos. Proceedings of a working conference held at the International Agency for Research on Cancer, Lyon, France, October 2-6, 1972. Albany, N.Y.: Q Corporation (49 Sheridan Ave., Albany 12210), 1973. 346 pp. Presentations at the conference covered assessments of methods used in the studies of the biological effects of asbestos; criteria for environmental data and bases for threshold limit values; the asbestos burden in lung and pleura; clinical data in mesothelioma; etiological mechanisms; and asbestosis in relation to the duration of exposure, occupation, dose, and fiber type.

Brodeur, P. Asbestos and Enzymes. New York: Ballantine Books, 1972. 146 pp. $1.25. The history, nature, and environmental health hazards of asbestos are described in a nontechnical manner for workers and the general public. A large portion of the text discusses the research done by Dr. Irving J. Selikoff, a medical specialist on environmental and asbestos health hazards.

Castleman, B.I., and Fritsch, A.J. Asbestos and You. Washington, D.C.: Citizens Energy Project (1413 K Street, N.W., DC 20005), 1975. 64 pp. The broad problem of asbestos contamination and its pervasiveness in urban, work, and other environments is reviewed with respect to known effects on health, particularly cancer. Action by the general public is advocated for protection against, and prevention of, asbestos pollution. An extensive bibliography, appendixes of statistical information, and tables listing the uses of asbestos are included.

Elmes, P.C. "Current Information on the Health Risk of Asbestos." *Royal Society of Health Journal* 96: 248-52; December 1976. The medical aspects of asbestos-induced lung disease are reviewed, and the physical properties of asbestos that are related to induction, etiology, and pathology are described. Those factors that are suspected or known to contribute to the development of asbestos-related diseases are reviewed, including the character of asbestos particles and the asbestos manufacturing process, dosage, the mechanisms of lung filtration of airborne asbestos, and the host's pathological reaction to entrapped particles.

Enterline, P.E. "Estimating Health Risks in Studies of the Health Effects of Asbestos." *American Review of Respiratory Disease* 113: 175-80; February 1976. Methodologic difficulties that may be encountered in estimating asbestos-associated cancer risks are discussed. While most studies seem to agree on the existence of an excessive cancer risk, it is determined that there is considerable disagreement as to the magnitude of this risk. Of eleven epidemiologic studies, estimates of relative risk for respiratory cancer ranged from 1.2 to 9.2. These variations are reviewed.


Felton, J.S. "Health Education-A Responsibility of the Occupational Health Professional." *Journal of Occupational Medicine* 19: 346-50; May 1977. In discussing the responsibility of the occupational health professional to provide general health education, the author cites extensive experience with asbestos workers, pointing out that the tragedy of workers with advanced lung disease can be somewhat averted by employee health education programs.

Fowler, R.A. *Asbestos Dust: Everyone's Problem*. Berkeley, Calif.: Western Institute for Occupational/Environmental Sciences (2001 Dwight Way, Berkeley 94704), 1978. 35 pp. $10. The problem of asbestos pollution and related diseases is explained in detail, with the aim of convincing workers to protect themselves against hazardous exposure to the mineral. Topics covered include: history and common uses of asbestos; who is exposed, and how; ways to control exposure; recommendations for medical surveillance; treatment for asbestos-related diseases;
and current regulations and government agencies concerned with occupational health in general and asbestos exposure in particular. A list of pertinent asbestos facts is appended.


Greenberg, S.D., and others. "Tyler Asbestos Workers Program." Annals of the New York Academy of Sciences 271: 353-64; 1976. Based on results of the Tyler Program's screening and surveillance techniques, the authors conclude that sputum cytology is an excellent, simple, painless, and inexpensive means for early detection of malignant and premalignant lesions of the lung.

Haley, T.J. "Asbestos: A Reassessment of the Overall Problem." Journal of Pharmaceutical Sciences 64: 1435-49; No. 9, 1975. The chemical, industrial, hygienic, animal, and human toxicologic and carcinogenic aspects of the asbestosis problem are reviewed. Various asbestos fiber types are analytically identified using different measuring instruments. Biochemical, histological, and histochemical aspects are described. Unsuspected exposure to asbestos fibers in mining, asbestos friction materials, asbestos house insulation, pipe insulation, textile production, and various nonoccupational routes are also discussed and evaluated.


Holstein, E.C. "Ask the Doctors--Bystander Exposure." Painters and Allied Trades Journal, December 1977. A physician explains the occupational health risks for workers who do not themselves use dangerous substances but who absorb them from co-workers who are using them. Examples are cited of various types of workers who develop asbestosis because they work in the vicinity of insulators and pipefitters, particularly in shipyards.

Horvits, J.S. "Asbestos and Its Environmental Impact." Environmental Affairs 3: 145-65; No. 1, 1974. The relationship between exposure to asbestos and diseases such as asbestosis, lung cancer, gastrointestinal cancer, and mesothelioma is explained. The legal and regulatory measures that have been taken to reduce these health hazards are reviewed, with reference to the Occupational Safety and Health Act, the Clean Air Act, and standards regulating the presence of asbestos in food, drink, drugs, and water.


Kuschner, M., and others. "A Study of the Problem of Asbestos in Water." Journal of American Water Works Association, September 1974. pp. 1-22. (Available from University Microfilms, 300 N. Zeeb Rd., Ann Arbor, MI 48106. $6 first copy.) After investigating the possible health risk of drinking water contaminated by asbestos-cement pipes, the study committee concluded that the risk from such potable water systems approaches zero. There is no evidence that ingested (as opposed to inhaled) asbestos can be definitely associated with gastrointestinal cancer, but establishment of standards for measuring waterborne asbestos fiber fragments is suggested, particularly in asbestos-cement pipes, and further epidemiological and pathogenic studies are recommended.

Lehman, Phyllis, editor. Cancer and the Worker. New York: New York Academy of Sciences (2 East 63rd Street), 1977. 77 pp. $5. Designed to inform workers, plant managers, and union leaders about what is and is not known about occupational cancer and the issues involved in its control. Industrial substances which scientists believe cause cancer in the human body, including asbestos, are discussed.

Levine, R.J., editor. Asbestos: An Informational Resource. Silver Spring, Md.: Division of Cancer Control and Rehabilitation, National Cancer Institute (Blair Building, Rm. 723, 8300 Colesville Rd., Silver Spring 20910), May 1978. 105 pp. The physical and chemical properties, production, consumption, occupational and nonoccupational human exposure, and health effects of asbestos are presented from the perspective of cancer risk. Methods of controlling asbestos exposure through engineering design and other physical restraints, public education, and medical management are discussed. Appendixes list smoking cessation programs, educational materials, research studies, federal regulations, and references.

"MSSM" Pinpoints Health Hazards Among Painters and Allied Tradesmen." Painters and Allied Trades Journal, April 1977. The findings of the Mount Sinai School of Medicine's investigation into the health hazards associated with painting are
summarized. Chief among these findings is the exposure of painters to asbestos dust from spackling compounds. New standards, safety procedures, and asbestos substitutes are recommended. A summary table shows how asbestos produces disease almost exclusively in the respiratory system, though it is sometimes associated with digestive tract cancers. The table also lists other compounds used by the paint industry and their health-associated risks.


"New for Consumers: Asbestos Ban." (News release.) Washington, D.C.: Consumer Information Center, General Services Administration, 1978. 1 p. The recent ban on asbestos-containing consumer plaster-patching compounds and nonburning artificial fireplace logs, embers, and ash is described. Specific information on how to dispose of these products is provided in a separate fact sheet.

Nicholson; W.J.; Rohl, A.N.; and Weisman, I. Asbestos Contamination of the Air in Public Buildings. Research Triangle Park, N.C.: EPA Library (MD-35, Research Triangle Park 27711), October 1975. 59 pp. Free (order No. EPA-450/3-76-004). In various cities, air samples were taken outside of and within 19 buildings that incorporated asbestos in their structures or as fire insulation. Air contamination was noted where fibrous dry-spray asbestos was used, but not where the asbestos was incorporated into cement. The report recommends future monitoring guidelines and procedures for removal of dangerous asbestos sources in existing buildings and during demolition.

Nowak, G.D. Asbestos Toxicity--January 1970 Through July 1977. Bethesda, Md.: Reference Department, National Library of Medicine (8600 Rockville Pike, Bethesda 20014), 1977. 47 pp. Free (order No. 77-14). The National Library of Medicine literature search includes 698 citations to articles dealing with the biological effects, risks, and hazards of exposure to asbestos in the industrial, municipal, home, and experimental environments. Emphasis is on asbestos and asbestos-related diseases, particularly respiratory effects and cancer in humans exposed to asbestos fibers and dust. Also included are other adverse effects: poisoning; toxicologic studies in humans and experimental animals; methods of analysis of asbestos in air, water, soil, food, beverages, household products, and other known or suspected sources; techniques for controlling the pollutant; minimum standards for exposure; and occupational and public health measures to prevent the asbestos-related disorders.

Occupational Health: Exposure to Asbestos. Washington, D.C.: Department of the Air Force, Headquarters U.S. Air Force, 1977. 6 pp. Free (order No. AFOSH Standard 161-4). This standard covers occupational exposure to asbestos and includes an interim message addressing smoking and lung cancer in asbestos workers. The application and scope of the standard are delineated, asbestos terms are explained, and requirements are outlined, including permissible exposure limits, exposure determination and measurement, hygiene facilities and practices, sanitation and housekeeping, caution signs and labels, medical examinations, record keeping, and employee information and training.

Rajhans, G.S. "Here's an Update on Asbestos." Occupational Health and Safety 46: 38-43; November-December 1977. Efforts to standardize safety levels of the two main types of asbestos—chrysotile and crocidolite—in the working environment are reviewed chronologically. Methods of asbestos fiber measurements and calculation of exposure (dose vs. duration) are discussed, and safety standards in different countries are described. Highlights of the U.S. Environmental Protection Agency standards (1975) deal mainly with the handling of asbestos and products that contain it.

"Recommended Practice for Handling Asbestos Fiber." Arlington, Va.: Asbestos Information Association/North America (1745 Jefferson Davis Highway, Arlington 22202). 4 pp. 10¢. Properties of asbestos are briefly defined and concise instructions given on how to handle, the storage, clean-up, transfer, transportation, and disposal of fibrous unprocessed asbestos. Attention is drawn to Occupational Safety and Health Administration and Environmental Protection Agency regulations and the availability of protective equipment. The leaflet also lists other publications and posters available from the Asbestos Information Association.


Selikoff, I.J. and Hammond, E.C. "Asbestos-Associated Disease in United States Shipyards." CA—Cancer Journal for Clinicians 28: 87-99; March-April 1978. The principal health hazards of asbestos and the clinical latency of asbestos-associated cancer are summarized. Early and recent studies of asbestos-related diseases in U.S. and foreign shipyard workers are reviewed and illustrated by statistical tables. Recommendations by the authors for ameliorating past mistakes include dissemination of information about and avoidance of additional asbestos exposure, medical surveillance programs, and further assessment of the potential for shipyard asbestos disease.

Selikoff, I.J., Nicholson, W.J., and Langer, A.M. "Asbestos Air Pollution." Archives of Environmental Health 25: 1-13; July 1972. The presence of asbestos in the atmosphere, particularly in major cities, is demonstrated by the finding of asbestos fibers in lung tissue of urban and rural dwellers who were not occupationally exposed to asbestos. The health threat of this widely disseminated air pollutant is discussed, and populations exposed to asbestos pollution are defined. Possible means of controlling pollution are also enumerated.

asbestos and other widely used sound and fireproofing insulation materials result in the release of high concentrations of airborne fibers. Recommendations are made for safeguarding the health of those who may be exposed to these respirable airborne fibers where asbestos must be sprayed.

"Standards for the Control of Carcinogens in the Workplace." Journal of Occupational Medicine 18: 81-84; February 1976. Possible approaches to the problem of establishing standards of carcinogen control are reviewed, including control strategies for environmental asbestos levels. Among the methods discussed for the general control of carcinogens are outright banning, use of permit systems, substitution of safer alternatives, and use of best available technology.


Sullivan, R.J., and Athanassiadis, Y.C. Preliminary Air Pollution Survey of Asbestos: A Literature Review. Research Triangle Park, N.C.: EPA Library (MD-35, Research Triangle Park 27711), October 1969... 93 pp. Free (order No. APTD 69-27). The current status of efforts to measure asbestos air pollution levels near asbestos emitting sources and in cities is examined. While noting that air sampling methods are inadequate, the survey goes on to identify possible environmental asbestos sources and their effects on humans. Appendixes contain general information on asbestos.

"Threat of Asbestos Disease Widens." Medical World News 17: 41+; October 18, 1976. The pervasive nature of exposure to asbestos and its effects on the health of people who do not actually handle the mineral are reviewed. Such sources of exposure as dislodged asbestos fibers in office fireproofing material, wall sidings spackled with asbestos fibers and compounds, asbestos from brake linings, and asbestos in drinking water are discussed and related to the incidence of lung abnormalities in city dwellers. Legislative efforts to curb dumping of asbestos into the environment are also described.


Asbestos Exposure: What It Means, What To Do. Bethesda, Md.: National Cancer Institute, n.d. 12 pp. Free (order No. DHEW(NIH)78-1594). Discusses the nature of asbestos, its uses, the problem for workers, the risks, and how workers can protect themselves. Facts about asbestos exposure are discussed. Sources for further information are listed.

U.S. Environmental Protection Agency. Background Information on Development of National Emission Standards for Hazardous Air Pollutants: Asbestos, Beryllium, and Mercury. Research Triangle Park, N.C.: EPA Library (MD-35, Research Triangle Park 27711), March 1973. 97 pp. Free (order No. APTD-1503). General aspects of all three pollutants, such as applicability of standards and source sampling or analysis, are followed by separate considerations of asbestos, beryllium, and mercury. Health effects, standards development, evaluation of comments, and environmental and economic impacts are discussed.

Background Information on National Emission Standards for Hazardous Air Pollutants—Proposed Amendments to Standards for Asbestos and Mercury. Research Triangle Park, N.C.: EPA Library (MD-35, Research Triangle Park 27711), 1974. 141 pp. Free (order No. EPA 450/2-74-009A). The basis for the proposed asbestos and mercury standards is discussed, including changes that have been made to improve the uniformity of enforcement and the workability of the standards. The amendments cover use of asbestos in the manufacture of shotgun shells and the operation of asphalt concrete plants, demolition or renovation of buildings containing asbestos products, asbestos fabrication, and disposal of asbestos wastes. Appendixes discuss air cleaning methods and stabilization of waste piles.

Background Information—Proposed National Emission Standards for Hazardous Air Pollutants: Asbestos, Beryllium, Mercury. Research Triangle Park, N.C.: EPA Library (MD-35, Research Triangle Park 27711), December 1971. 28 pp. Free (order No. APTD-0753). The derivation of the proposed national emission standards for asbestos, beryllium, and mercury is traced; for each of the pollutants, information is given on the effects on health, the nature of the air pollution problem, the development of proposed standards, and the expected economic impact of the standards.


associated with asbestos. Part 1 outlines steps that schools can take to conduct an asbestos control program. Part 2 deals with the detection and monitoring, removal or encapsulation, and disposal of asbestos-containing building materials. Measures available to protect workers and building occupants are presented, based on field measurement and theoretical considerations. Sampling procedures are discussed so that users of this document can take an active role in determining whether protective action is needed and, if so, how best to protect the public and the environment.

Weidman, J. "What Is Asbestos?" Job Safety and Health 5: 17-20; September 1977. Factors that should be considered by researchers and government regulatory agencies when addressing asbestos-related health problems are discussed at a multidisciplinary conference. Since no agreement is reached on a definition of the group of hydrated, fibrous silicates collectively called asbestos, further investigation is suggested. Information on current asbestos experiments is also presented.

Weis, L., and Theodos, P.A. "Pleuropulmonary Disease Among Asbestos Workers in Relation to Smoking and Type of Exposure." Journal of Occupational Medicine 20: 341-45; May 1978. Describes a study of asbestos workers which explored the relationship of pulmonary disease and pleural thickening to type of asbestos, age, duration of exposure, and smoking habits.

What You Should Know About Asbestos and Health. Arlington, Va.: Asbestos Information Association/North America (1745 Jefferson Davis Highway, Arlington 22202). 11 pp. Free. Workers are advised of potential health risks from exposure to asbestos dust when safety regulations are ignored, either at the plant or in field operations such as construction and demolition. The brochure describes the health hazards, the employer's obligation to protect employees, and what workers can do to protect their own health and that of their families. A smoking ban is among the twelve safety regulations described.

Wright, W. J. "Asbestosis--The Symptoms and Course of the Disease." Nursing Times 72: 685-86; May 1976. The symptoms and etiology of asbestosis are described, as well as diagnosis, treatment, and possible complications. Several suggestions for treatment and further research are also briefly discussed.

Zielhuis, R. L., editor. Public Health Risks of Exposure to Asbestos. Report of a Working Group of Experts, Prepared for the Commission of the European Communities, Emsford, N.Y.: Pergamon Press, 1977. 149 pp. $15. The report describes types, physical composition, and uses of asbestos; examines possibilities of exposure; reviews sampling methods and levels of exposure; describes biological effects, and reviews occupational health risks and exposure limits. The health risks of environmental exposure are evaluated and requisite follow-up studies are described.
Audiovisual

The American Way of Cancer. 57 min. 16mm film, sound, color. CBS Publishing Group, 383 Madison Ave., New York, NY 10017. The film examines cancer-causing agents, including asbestos, arsenic, pesticides, and certain food additives. It also takes a look at the hiding places of carcinogenic substances in the daily life of a family in Cincinnati, Ohio; in the smelters of a copper plant in Tacoma, Washington; and in a chemical plant in Salem County, New Jersey.

Bellow, B., and Eselson, N. Asbestos: Fighting a Killer. 30 min. slide-tape presentation, 137 color slides 2"x2", with audiocassette, script, and carousel slide tray. AFL-CIO, CLC, Citizenship-Legislative Department, 1126 16th St., N.W., Washington, DC 20036. $125. Designed to educate workers about the dangers and consequences of asbestos exposure and explain federal regulations aimed at protecting workers and their families.

Posters

Asbestos: Health Hints for the Workplace. Six posters, each 15"x23", color. Arlington, Va.: Asbestos Information Association/North America (1745 Jefferson Davis Highway, Arlington 22202). This poster series urges prevention of asbestos-related health hazards by vacuuming dust spills, using respirators, not smoking, immediately repairing broken bags, changing clothing at work, and reporting unsafe working conditions promptly.


III. Sources of Service and Information (Federal, State, Other)

U. S. Environmental Protection Agency

1. EPA Regional Offices. The Environmental Protection Agency has ten regional asbestos offices around the country to coordinate the EPA School Asbestos Program with the states. Each Regional Asbestos Coordinator is available to meet with state and local officials in his/her region to discuss the asbestos material problem and to answer questions about the EPA school program. See Attachment B.

2. EPA Toll-Free Numbers. Copies of the EPA guidance package, survey forms, and other information on the EPA School Asbestos Program are available by calling 800-424-9065. (In the Washington, DC area, call 554-1404.) Information on sampling and analysis is available by calling 800-334-8571, extension 6892.
State Asbestos Program Contacts

Many states have programs or are developing programs to control asbestos materials in schools and other buildings. The names of the Asbestos Program Contacts for the respective states are available on the EPA toll-free information number: 800-424-9065.

The EPA Regional Asbestos Coordinators (Attachment B) may also be contacted for the names of State Asbestos Program Agencies. School officials should check with the state agency before beginning a school asbestos-control program. States that already have an asbestos program may want schools to follow certain procedures for inspecting, sampling and analysis, and corrective action.

U. S. Consumer Product Safety Commission


U. S. Department of Health and Human Services

1. The National Institute for Occupational Safety and Health (NIOSH) can provide assistance on selection of approved respirators and answer questions on occupational safety and health. NIOSH Regional Consultants are listed in Attachment C.

2. The Regional Health Administrators listed in Attachment D can provide information on the health problems associated with asbestos exposure.

Western Institute for Occupational/Environmental Sciences
2001 Dwight Way, Berkeley, CA 94794

The Institute conducts a research and education program supported by organized labor, industry, and community agencies. Concerned physicians conduct clinical research and worker health surveys, provide consultant services, and develop multimedia educational programs to identify and control toxic industrial substances, including asbestos and pesticides.

A GUIDE FOR REDUCING ASBESTOS EXPOSURE

Purpose

Your school building contains materials which contain asbestos and may release fibers into the air. Breathing asbestos fibers is dangerous. This fact sheet tells how to reduce exposure to asbestos fibers. Please read it carefully.

Protecting Yourself from Asbestos

Some of the friable building materials in your school contain asbestos. Friable asbestos-containing materials crumble easily and release fibers into the air. Breathing these fibers may cause cancer and other diseases. The more asbestos you breathe, the greater your chances of getting disease.

Find out from your supervisor where these friable asbestos-containing materials are in your building. Do not touch or disturb them unless you have to. If you must handle an asbestos-containing material, first lightly spray it with water. Wet asbestos-containing materials will not release as many fibers.

Even if friable asbestos-containing materials are not disturbed they may release asbestos fibers, which will fall slowly to the floor. If you are cleaning in areas which contain these materials, do not use a broom; it will stir the fibers into the air. Do not use a vacuum-cleaner unless it is equipped with a High Efficiency Particulate Absolute filter. The fibers are so small they can pass through an ordinary vacuum cleaner and out into the room.

When cleaning in areas which contain friable asbestos-containing materials, use dampened mops and dustcloths. Dampened mops and dustcloths will hold the fibers much better than dry mops and dustcloths, and will reduce the number of fibers put back into the air. It is best to use mops with disposable heads and to throw away the mop head after use. Otherwise, fibers will be released as the mop dries. Use either lightly dampened mops or cloths or a vacuum with a High Efficiency Particulate Absolute filter to clean areas where wet mopping can't be used (such as carpeting or hardwood floors).
Clean tables and chairs in the area, with damp cloths. Do not dust them with brushes or with dry cloths, and do not vacuum them. After you use the cloths, put them in a plastic bag while they are still wet and dispose of them properly.

A list of Important Points to Remember

1. Do not handle or disturb friable asbestos-containing materials unless necessary.

2. If you must handle asbestos-containing materials, wet them first.

3. If you must disturb asbestos (for example, to repair a light), see your supervisor before starting work. Then:
   a. Place a plastic dropcloth below the work area.
   b. Spray asbestos-containing material with water before you disturb it.
   c. Make sure that only those persons who are necessary for the job are in the area.
   d. Put all the asbestos you remove into a heavy plastic bag. Seal the bag and discard it.
   e. After the job, clean all the ladders and tools you used with a wet cloth.
   f. Roll up the dropcloth carefully and put it in a plastic bag. Discard the bag.
   g. Clean the floor below the work area with a wet mop.
   h. Discard the mop head and the cloth used to clean the ladders while they are still wet.

4. If you must disturb or remove large sections of asbestos-containing material, see your supervisor before you begin. The National Institute for Occupational Safety and Health recommends that a respirator approved for toxic dusts be worn during such work.
INSPECTIONS FOR FRIABLE ASBESTOS-CONTAINING MATERIALS

1. Please provide the following information about the local educational agency:

   Name
   City
   County
   State
   Zip Code

   Fill-in-the-following information about the schools under the authority of this local educational agency:

2. The number of schools which have been inspected for friable materials in accordance with Section 763.3 of Volume 40 of the Code of Federal Regulations.

3. The number of schools where friable materials are present.

   If the answer to question 3 is none, disregard questions 4-7 and go on to the certification. Otherwise, fill in the following information about the schools enumerated in question 3.

4. The number of schools in which all friable materials have been sampled and analyzed in accordance with Section 763.4 and Section 763.5 of Volume 40 of the Code of Federal Regulations.

5. The number of schools with friable material(s) that contain(s) asbestos.

   If the answer to question 5 is none, disregard questions 6-7 and go on to the certification. Otherwise, fill in the following information about the schools enumerated in question 5.

6. The total area in square feet of all friable asbestos-containing materials found in these schools.

7. The total number of school employees who regularly work in schools where friable asbestos-containing materials are present.

Certification:

Please read and sign below the following statement:

I hereby certify that this local educational agency has complied with the EPA regulation 40 CFR §763.1-§763.10, "Asbestos-Containing Materials in Schools: Identification and Notification," and that the information on this form is, to the best of my knowledge, true and complete.

Signed: __________________________
Name: __________________________
Title: __________________________
Date: __________________________

Additional forms can be obtained by calling 800-424-9065 (554-1404 in Wash., D.C. area).
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
REGIONAL OFFICES

Region 1
Wes Straub
Regional Consultant, NIOSH
DHEW, Region I
Gov’t Center (JFK Fed. Bldg.)
Boston, Massachusetts 02203
(617) 223-6668

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Regional Consultant, NIOSH
DHEW, Region III
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Region 4
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101 Marietta Tower/Suite 502
Atlanta, Georgia 30303
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Region 5
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Region 6
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DHEW, Region VI
1200 Main Tower Bldg., Rm. 1700-A
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Region 7
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Regional Consultant, NIOSH
DHEW, Region VII
601 East 12th Street
Kansas City, Missouri 64106
(816) 374-5332

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