

ASBESTOS & LEAD USES and CONCERNS

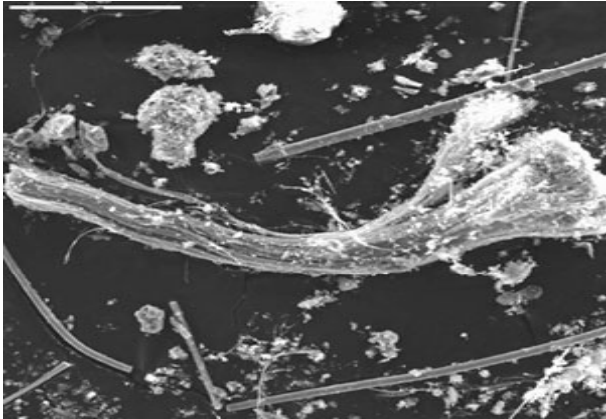


County of Santa Clara Safety
Coordinator Forum

What is Asbestos?

- **A naturally occurring mineral found in certain rocks. This mineral separates into strong, thin fibers that are invisible to the naked eye.**
- **Asbestos was commonly used in building materials before the mid-1970s and occasionally until the late 1980s because it is strong, fire- and corrosion-resistant, and a good insulator.**
- **Common uses of asbestos include the following:**
 - **As a building material additive to enhance strength (for example, asbestos was added to concrete, asphalt, and vinyl materials in roof shingles, pipes, siding, wall board, floor tiles, joint compounds and adhesives)**
 - **As a fireproofing material applied on steel beams and columns during construction of multistory buildings**
 - **As a thermal insulation and as a means of controlling condensation**
 - **As an ingredient in acoustical plaster**
 - **As a component of a mixture sprayed on ceilings and walls to produce a soft, textured appearance**

Asbestos Fibers

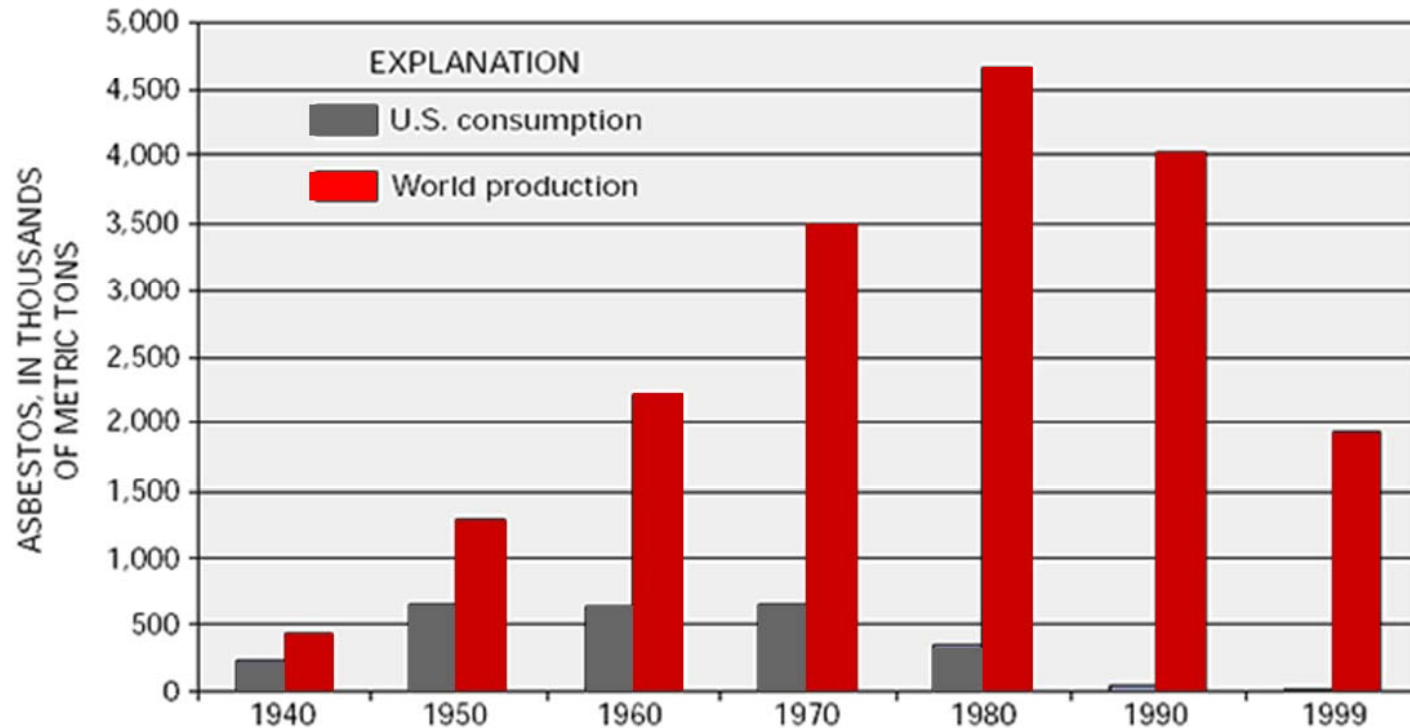


Where Does Asbestos Come From?



Figure Occurrences of asbestos in the contiguous United States. Major asbestos-bearing deposits occur in the mountain belts in the Eastern and Western United States. Data from USGS Digital Data Series DDS-52 (E.J. McFaul and others, 2000, U.S. Geological Survey Mineral Databases—MRDS and MAS/MILS).

Asbestos Production & Consumption



- **Figure.** Asbestos consumption in the United States and world production of asbestos, which is used as a guide to world consumption. Peak U.S. consumption of asbestos was 719,000 metric tons in 1973. Peak world production was 5.09 million metric tons in 1975. Data from Minerals Yearbook, v. I (published by the U.S. Bureau of Mines until 1995 and by the U.S. Geological Survey after 1995).

Most Common Sources of Asbestos Exposure

- **Workplace exposure to people that work in industries that mine, make or use asbestos products and those living near these industries, including:**
- **The construction industry (particularly building demolition and renovation activities),**
- **The manufacture of asbestos products (such as textiles, friction products, insulation, and other building materials), and**
- **During automotive brake and clutch repair work**
- **Deteriorating, damaged, or disturbed asbestos-containing products such as insulation, fireproofing, acoustical materials, and floor tiles.**

Types of Occupants

General occupants, who spend time in buildings but who are unlikely to disturb asbestos in place; for example, office workers

Custodians and/or janitors, who may cause increased levels of airborne asbestos fibers as a result of housekeeping activities.

Skilled maintenance workers, whose activities may disturb and displace ACM.

Workers who are responsible for removal or remediation of ACM.

Emergency personnel who may be required to enter buildings during or after extensive damage, for example, fire fighters.

Planning Your Renovation

- Has a survey of the Property previously been conducted?
- If no – a Certified Asbestos Consultant is recommended to pull samples
 - Provide as much information about your project
 - Square footage of area
 - What is the renovation for – ie.. New finishes, room reconfiguration, upgrades, new tenant or repairs
 - What materials will be impacted, ie.. Flooring. Ceiling, wallboard
 - Will this be major renovation or simply repairs

Once a survey is conducted – If materials contain asbestos greater than 0.1%

Engage services of a DOSH Registered Contractor to remove these products prior to renovation.

If Materials are to be managed in place and not removed – discuss options of and Operations and Maintenance plan with the Consultant for keeping track of asbestos products.

Notification to Tenants

- In 1988, California enacted Legislation (specifically, Chapter 10.4 of the Health and Safety Code, section 25912 et seq.) requiring landlords and tenants of buildings constructed prior to 1979 to notify certain people, including each other and their respective employees working within such building of any knowledge they might have regarding any asbestos-containing construction materials ("ACCM") in such building.
- ACCM materials containing detectable quantities of asbestos, legally defined in California, as materials containing percentages of asbestos greater than one-tenth of one percent ($>0.1\%$) by weight. ACM and PACM materials containing percentages of asbestos greater than one percent ($>1\%$) by weight. Per the CALIFORNIA HEALTH AND SAFETY CODE SECTION 25915-25919.7:(a) Notwithstanding any other provision of law, the owner of any building constructed prior to 1979, who knows that the building contains asbestos-containing construction materials (ACCM), shall provide notice to all employees of that owner working within the building concerning all of the following:

Notifications Cont.

- (1) The existence of, conclusions from, and a description or list of the contents of, any survey known to the owner conducted to determine the existence and location of ACCM within the building, and information describing when and where the results of the survey are available pursuant to Section 25917.
- (2) Specific locations within the building known to the owner, or identified in a survey known to the owner, where ACCM are present in any quantity.
- (3) General procedures and handling restrictions necessary to prevent, and, if appropriate, to minimize disturbance, release, and exposure to the asbestos. If detailed handling instructions are necessary to ensure employee safety, the notice required by this section shall indicate where those instructions can be found.
- (4) A summary of the results of any bulk sample analysis, or air monitoring, or monitoring conducted pursuant to Section 5208 of Title 8 of the California Code of Regulations, conducted for or by the owner or within the owner's control, including reference to sampling and laboratory procedures utilized, and information describing when and where the specific monitoring data and sampling procedures are available pursuant to Section 25917.
- (5) Potential health risks or impacts that may result from exposure to the asbestos in the building as identified in surveys or tests referred to in this section or otherwise known to the owner.

Asbestos LIABILITY

- What are the health risks in regards to asbestos?
- Is pre or post testing required?
- What are liabilities that can be involved with asbestos?

Lead Related Issues and Solutions

- **Concerns of Lead:** Exposure can affect the brain and nervous system, especially in children under the age of six. Potential affects in adults can cause reproductive problems, high blood pressure as well as digestive disorders.
- **Restoration Management Company** is an EPA approved abatement company. We use the latest and most effective equipment for the removal of lead paint, dust, and soil. We are certified for the removal/cleanup of lead.
- Many of our supervisors and workers are OSHA and EPA trained and certified.
- **Where to look: Lead-based paint (pre-1978)** - It may have been used both inside and outside of a facility and on furniture or objects in the home.



Project Profile: Sacramento, CA

Stripped Paint of Asbestos and Lead



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Stripped Paint of Asbestos and Lead



Project Profile: Sacramento, CA

The Containment





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THANK YOU

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