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HEW Warns of Asbestos Hazard in Work With Brake Linings, Spackling Mixtures

A WALL STREET JOURNAL *News Roundup*

Government agencies renewed warnings about exposure to asbestos, a commonly used mineral that scientists say can cause serious and disabling lung disease, including fatal lung cancer.

The National Institute for Occupational Safety and Health, a research arm of the Department of Health, Education and Welfare, said in a letter to health experts that garage personnel who change or grind brake linings are being exposed to potentially hazardous levels of airborne asbestos. The letter, written by J. William Lloyd, director of NIOSH's office of occupational health surveillance, said that although a systematic study of these workers hadn't been made, levels of asbestos dust are high enough to cause damage and that four cancer deaths associated with such work had been reported.

Another arm of HEW, meanwhile, said it found "alarming" a study that showed various spackling compounds used for home repairs contain concentrations of asbestos sufficient to cause disease. The study, by scientists at Mount Sinai School of Medicine in New York who have studied the harmful effects of asbestos in various occupations, appeared recently in Science, a publication of the American Association for the Advancement of Science.

Commenting on the report, David P. Rall, director of the National Institute of Environmental Health Sciences, said, "These findings suggest the possibility of significant exposure during home construction and repair."

"Additional work by the (Mount Sinai) scientists suggests that members of the entire household or other occupants . . . may also inhale asbestos fibers," Mr. Rall added.

"These results are alarming when considered in relation to other evidence being accumulated by the Mount Sinai group that indicates that far less than the intense exposure of the work environment is capable of producing asbestos-related disease," he said.

The Environmental Sciences Laboratory of Mount Sinai, which under the direction of Dr. Irving J. Selikoff has been the leader in research on the dangers of asbestos, reported in Science that it had analyzed 15 samples of spackling, patching and jointing compounds purchased in New York City and found that five contained appreciable amounts of asbestos. "Use of these materials in home repair work (for example, mixing, sanding and cleanup) may expose the user (and other members of the household) to significant concentrations of asbestos," they said.

The scientists said that, even more important, none of the spackling compounds contained warning labels or indications that it contained hazardous materials. They urged that such labels be required, with instructions for safer usage.

The Mount Sinai scientists were also responsible, in part, for the NIOSH warnings about brake-drum linings. The NIOSH letter noted that the Mount Sinai investigators had determined that workers engaged in the maintenance and repair of automobile and truck brake linings "are exposed to potentially hazardous levels of airborne asbestos dust."

One of the scientists said in an interview that particularly large amounts of dangerous asbestos dust were created in maintenance shops where the large asbestos linings of trucks and buses were ground to fit the brake drum or were resurfaced after use. He said that the changing of asbestos brake linings for automobiles was also dangerous because mechanics usually use an air hose to blow out the loose dust after removing the old lining.

NIOSH estimated that as many as 900,000 workers are exposed to asbestos in the manufacturing and servicing of brake linings and clutches, most of whom are auto mechanics. The agency recommended, as an interim procedure, that repair shops designate a segregated area for all brake and clutch repairs and that signs be posted in those areas pointing out the dangers of asbestos dust. It also said that repairmen should wear respirators when doing such work, and that strong vacuum cleaners be used to remove asbestos dust from brake drums before working on them.

For copy, write to Bill Lloyd at NIOSH in Rockville, MD or call him (301-443-1418).

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#16 171

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Perilous Particles

Tiny Asbestos Fibers Pose a Health Threat To Workers and Public

Long Exposure Can Result In Lung Disease, Cancer; Industry Seeks Solutions

'The Bodies Are in the Street'

By Barry Newman
Staff Reporter of The Wall Street Journal

NEW YORK—At Joseph Marino's gas station on the fringe of Manhattan's Spanish Harlem, the proven method of cleaning an old brake assembly goes like this: Pull off the wheel, aim an air hose at the exposed parts and blow the dust out.

A cloud of brown dust invariably flies right into the mechanics' faces, says Mr. Marino. But it doesn't bother them. "We got masks and everything," Mr. Marino shrugs. "The guys don't use them. What the hell."

What the mechanics don't seem to know—like thousands of other mechanics—is that the brown dust is dangerous. Brake linings are made of asbestos. And if a mechanic breathes in enough dust from the worn out linings it could eventually kill him.

The lethal quality of tiny, indestructible asbestos fibers that lodge in the lung is well known. Widely publicized studies by Dr. Irving Selikoff of the Mount Sinai School of Medicine lead him to predict that of the roughly 250,000 asbestos industry workers today, about 95,000 will die unnecessarily of occupational cancer. "In the next 10 to 15 years we will enter the asbestos cancer era," says Dr. Selikoff. "This is one of the great disasters of our time."

Hazards for Others, Too

The asbestos industry is well aware of the problem and is taking action to combat it, though critics say the steps aren't as drastic as the situation demands. But asbestos industry workers aren't the only ones who might fall prey to the lung cancers and other diseases caused by the mineral's irritating fibers. It's likely that millions of workers in other industries using asbestos fibers could be affected, as well as ordinary people who have come into contact with asbestos in the atmosphere.

Perhaps the most tragic fact is that for those who have already been sufficiently exposed, changes in procedures and standards of asbestos use—including a new set announced yesterday by the Department of Labor—are meaningless. It takes as many as 40 years after the first exposure for asbestos-related diseases to surface. Controls instituted now will indeed have an effect, but not for decades.

Harry Bailey is one man who isn't likely to find much solace in the new standards. Mr. Bailey isn't an asbestos worker. He's a bricklayer in a Mobil Oil Corp. refinery alongside the Delaware River in Paulsboro, N.J. He has been working at the plant for 33 years, and every year he has gone to the company medical department for a chest X-ray.

"They never said there was anything wrong with me," says 54-year-old Mr. Bailey, and indeed he has thus far developed no outward symptoms. But a few months ago he and 18 other workers from the refinery went to Mount Sinai for an examination, and every one of them proved to have scarred lungs—a sign of asbestosis, a nonmalignant lung disease. (Mobil has refused to release his medical records to the New York doctors, Mr. Bailey says. The company declines to comment on the matter.)

First Scarring, Then Complications

Asbestosis begins with X-ray evidence of scarring like that found in Mr. Bailey's lungs. As the disease progresses, the lungs stiffen and breathing becomes difficult. The heart has to work harder and can become enlarged. Ultimately, death may be caused by heart attack or suffocation.

The mineral can also cause lung cancer—in fact asbestos can cause cancer just about anyplace in the body if particles are somehow ingested. The ability of the sharp, tiny particles to penetrate the lung once breathed in has produced a high incidence of cancer in the membrane surrounding the lung, a disease called mesothelioma. In the general populace, it causes one in 10,000 deaths. Of 632 asbestos workers being studied by Dr. Selikoff, 32 have died of it so far.

The Mobil refinery, where Mr. Bailey works, like all high-heat factories in the oil and chemical industries, uses asbestos for insulation. Mr. Bailey works with insulation workers inside the furnaces, ripping out soft brick. "There's asbestos and brick dust and a lot of sulphur, too," he says. "We complained about the dust and dirt. Nothing is done to keep it down. The fans make it worse, and you can't wet it because of the heat in the bricks. The company bought new respirators, but under the conditions they clog in 15 minutes."

In the asbestos cutting rooms, he adds, there aren't any vacuum attachments on the power saws. And when the insulation workers saw asbestos sheets outside the room, or mix cement in a wheelbarrow, "anybody can get the dust."

Company Disagrees

Mobil disagrees with the description of working conditions. In response to a query, the company issued this statement: "We have no problems at the Paulsboro refinery concerning the use of materials containing asbestos. We use very little of such material, and what we do use is used under strictly controlled conditions. Recently the Occupational Safety and Health Administration carried out an extensive and thorough inspection of the entire Paulsboro refinery. No violations were found in the plant's handling of asbestos materials."

Mr. Bailey's union, the Oil, Chemical and Atomic Workers is protesting that inspection. Steven Wodka, a union health and safety specialist, says little attention was paid to health violations. And he complains that after a week of accompanying the inspectors, the company inexplicably "had me kicked out of the plant." Mobil declines comment on Mr. Wodka's charge.

Oil refineries are by no means the only places where asbestos turns up. The versatile substance is a fireproof binder and insulator in thousands of products, including such things as

Please Turn to Page 16, Column 4

Wall Street Journal

Custom Dep. Ex. No. 27
Date 4/24/82 by AAC

erilous Particles: Tiny Asbestos Fibers Pose a Health Threat

Continued From Page One

plastics, shingles, paper and pipes. In most of these, the asbestos is harmless to users. But, depending on how it's added to the products, asbestos can pose a threat to workers in the factories where the products are made.

Until six months ago, for instance, asbestos was being used as an antileak ingredient in Prestone antifreeze, made by Union Carbide Corp. At a Carteret, N.J., plant, run for Union Carbide by General American Transportation, the asbestos would arrive in paper sacks. Workers would cut the bags open with knives and feed the powdery white asbestos into tanks of antifreeze says James Irving, a fire and safety engineer who has worked in the plant for 22 years.

"They'd wear face masks, but no protective clothing," Mr. Irving says, "and the blowers in the room where they worked would send the dust out to where others were working. Then they'd pile up the bags outside the building and a crew would pick them up and throw them onto the truck, raising a big cloud of dust."

Asbestos was removed from the Prestone formula late last year. Mr. Irving says the change took place after the Oil, Chemical and Atomic workers made an issue of it. Union Carbide denies that. The decision, says Herbert J. Hannigan, the company's technical manager of auto products, was based on marketing considerations and "had nothing to do with health."

Asbestos also can pose hazards to the ultimate consumers of certain products. Bits of asbestos used in filters for beverage making have been found in wine and beer, for instance, and could be dangerous if swallowed. The use of such filters in beverage making seems to have been curtailed, but knowledge of the hazard appears to have had little effect elsewhere, even in medical circles. Asbestos, says a soon-to-be-published study, is being used in some hospitals as a filter for intravenously fed liquids, giving the particles an entree into the blood stream.

The use of asbestos in fireproof textiles is common. Once in a while, asbestos fiber even finds its way into ordinary fabrics. Dr. William Nicholson, an associate of Dr. Selikoff at Mount Sinai, has a girl's charcoal-colored winter coat with red trim hanging in one of his laboratories. It's one of more than 200,000 imported coats made with 8% asbestos fiber sold two years ago. Some of them are presumably still being worn. "Give that coat a shake," says Dr. Nicholson "and you get dust levels as high as in an asbestos factory."

Asbestos workers in the construction industry are perhaps the most sensitive of all workers to the asbestos hazard. It was the construction industry, which uses two-thirds of all asbestos products, that was the target of the first wave of antiasbestos publicity more than four years ago. At least four cities—New York, Bos-, Chicago and Philadelphia—have banned raying of asbestos fireproofing material . Substitute materials are being de-igh there's some question being their safety, too.

Afraid of a Checkup

Among construction workers outside the asbestos trades—virtually all of whom are exposed to asbestos whether they work with it directly or not—concern remains relatively low. Jacob Novak, business manager of the Asbestos Workers Union local in New York, says he has tried without success, for instance, to induce a group of plasterers to have checkups. "Some of these people don't want to face a free X ray because they're afraid of what they might hear," says Mr. Novak, a 43-year veteran of the asbestos trades, who had a nonmalignant tumor removed from a lung last winter.

Anxiety in the demolition industry also seems minimal. "We don't have a dust problem in demolition," says Leonard Kapy, vice president of Wrecking Corp. of America, one of the largest demolition companies in the country. "Some people think you can take down a building without dust," he says with a laugh. As for asbestos, Mr. Kapy isn't worried: "I know fellas who have laid asbestos pipe for years, and there's nothing wrong with them." When working in closed quarters, he says, his men use drop cloths and fans, but they don't wear respirators because "they're too hot and they don't work."

Nevertheless, the federal Environmental Protection Agency is preparing regulations expected to be announced this summer that would attempt to impose controls on air pollution from demolition operations. These could include requirements for wetting down the work areas or the removal of all asbestos before a building is toppled. The technical problem of measuring dust levels, however, "could toss out the demolition regulation entirely," says James Krowder, an engineer with the EPA's hazardous pollutants branch.

Setting a standard for asbestos concentrations at work sites has been similarly difficult for the fledgling Occupation Safety and Health Administration, a year-old Department of Labor unit. The reason: Nobody knows how much asbestos is dangerous. The asbestos industry, led by Johns-Manville Corp., the largest in the field, has fought for a standard allowing five asbestos fibers per cubic centimeter of air in the factories. But the doctors at Mount Sinai and elsewhere argue that the only true safe level of asbestos pollution would be zero.

A Four-Year Delay

The government's decision yesterday was to impose a five-fiber average, with a maximum concentration in the work area of 10 fibers per cubic centimenter at any time. In 1976, the new regulations call for a more stringent two-fiber limit, with the four-year delay intended to give the industry a chance to control the problem.

The industry says even a two-fiber limit could hurt it economically. J. B. Jobe, Johns-Manville's executive vice president, said at hearings in March that it would be "socially irresponsible" to adopt such stringent regulations.

The company operates the largest asbest factory in the country at Manville, N.J., wher according to a recent Mount Sinai study, 40 of the workers die of asbestos-related cance Corrective steps being taken already, Johr Manville maintains, are adequate to deal wi the problem without causing a cutback in t plant's production, the lifeblood of the Nc Jersey town of 15,000. At least one asbestos fa tory, run by a PPG Industries and Corni Glass Works joint venture in Tyler, Tex closed last February because of "profitabili and concern over safety," a spokesman sa

Actually, the curbing of asbestos contamin tion is more an exercise in good housekeepi than capital expenditure. While the cost stopping pollution at a power plant or smelt might run into the hundreds of millions, t cost of cleaning up an asbestos operation wou be closer to a 10th of that magnitude, acco ing to doctors, engineers and union officials.

Some of the staples of such an operation. ready in use in many plants, are compa tively inexpensive closed plastic bags for mi ing cement, vacuum attachments on pow saws, drop cloths, dust-suppressant chemica and battery-powered respirators that blow f tered air into the user's face to ease discon fort.

The new Labor Department standards d indeed, call for many of these work-practic rules. But while they are unquestionably needed step toward strict controls, Dr. Seliko says, he also says he remains pessimisti "The potential for surveillance is remote," h says, because of the small, underfinance staffs of federal and state inspectors. A surve recently completed at Mount Sinai of 9,400 a bestos workers around the country, for i stance, showed that in 1970 and 1971 there wa only one dust count taken in asbestos plants fo every 20,000 man-days worked.

And while he says he appreciates the asbe tos industry's expressed interest in solving the problem, Dr. Selikoff is hard-pressed to explain the continuing apathy among many workers and managers. "This isn't just another scare," he says. "Some people want to see the bodies in the street before they become concerned. Unfortunately, in this case the bodies *are* in the street."