"ASBESTOS EDUCATION"

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Union Carbide has mined asbestos ore and operated an ore benefication plant in California since 1963. We market asbestos fibers for industrial applications, but we do not make any products from asbestos.

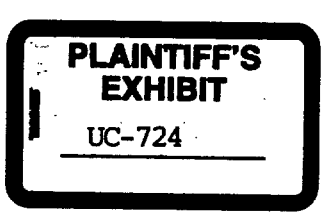
We have provided medical surveillance for our asbestos plant employees and conducted air monitoring since 1963. Some of our plant areas are currently monitored as often as once per month to ensure that our dust control measures are effective. Safety meetings, posters, and individual consultations are some of the means used to advise employees of the asbestos health hazard. The use of safety equipment is rigidly enforced and employees are constantly reminded of safe procedures and precautions to take to preserve their health. Smoking has always been prohibited in certain plant areas and has been generally discouraged by communicating to employees the apparent connection between an increase in lung cancer and asbestos workers who smoke. Since January 1, 1977, smoking has been prohibited on all plant property. Medical surveillance has included chest X-ray and pulmonary function analysis, and we have recently added sputum cytology to our medical program. Before initiating new rules or programs, we thoroughly discuss them with employees. This facilitates the implementation of changes and demonstrates to our employees why we are making the changes. They can then understand our reasons and cooperate with us in establishing a safe working environment.

Our customer "education" includes mailings and personal contact through meetings, seminars and sales calls. Our salesmen are thoroughly familiar with the asbestos health hazard and are aware of regulatory requirements, safe handling methods, etc. Our bags of asbestos have carried a warning label since 1968, four years before the Federal OSHA standards were promulgated to require this, air monitoring, medical surveillance, and other safety measures. We have provided free air monitoring for our customers for several years. This often provides us with the opportunity to discuss the asbestos hazard and safety precautions with our customer's employees. We have prepared booklets containing information related to specific applications. These booklets contain general information on the asbestos health hazard, regulatory requirements, typical air monitoring results and other pertinent items. We have also prepared information for presentation to technical society meetings or any group who is interested in the asbestos/health story. We have in our files a large number of items which we send to customers, and including all of them with this document would make it very voluminous. The attached list of them is essentially complete and the items are available for immediate mailing, if so desired.

The State of California recently enacted an Occupational Carcinogens Control Act, and asbestos is one of the 16 substances affected by it. The CAL-OSHA Asbestos Standards have been modified to include the provisions of the Act, which also provides for a massive education program. We have worked closely with State personnel to develop standards which are effective and also practical and enforceable. We have participated heavily in the education program, "Preventing On-The-Job-Cancer", by serving on panels and assisting in workshops held at four different California cities in June and July.

Asbestos can be used safely in essentially all of its many applications. The key to safe working and public environments is a thorough knowledge of its potential health hazards and how to handle and use it without creating excessive airborne contamination.

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Niagara Falls, NY - August 29, 1977

INFORMATION AVAILABLE FROM UNION CARBIDE CORPORATION ON THE HEALTH HAZARDS OF ASBESTOS AND HOW TO USE IT SAFELY

Material Safety Data Sheet & Typical Chemical & Spectrographic Analysis of "Calidria" Asbestos
Testimony by George W. Wright, M.D. before U.S. Dept. of Labor, Occupational Safety & Health Hearing on Proposed Occupational Asbestos Standard, March 14-17, 1972
Testimony by J. Corbett McDonald, M.D. - same as above
OSHA Regulations
EPA Regulations
"Airborne Asbestos" National Research Council, 1971
"Airborne Asbestos" - Summary
"Airborne Asbestos" - References
Asbestos Bulletin (Asbestos Information Committee, London - 9/72)
CIBA CEIGY - UK 2/72
QAMA Folder
WHO Report - 10/72
Dust Counting - S. G. Bayer, R. D. Zummalde, T. A. Brown - Feb. 1969 (NIOSH/HEW)
Dust Monitoring Equipment & Costs - 2/19/73
Instructions for Sampling of Airborne Asbestos Fibers
Procedure for Pump Calibration used for Monitoring of Asbestos Dust Emissions
AIA - "Protecting the Asbestos Worker
AIA - "Asbestos and Health"
AIA - "The Asbestos Information Association/North America"
AIA - "Asbestos and Health Questions and Answers"
AIA - "What Asbestos Is: How and Where it Is Used"
AIA - "What Every Employee Should Know About Asbestos" - 2/74
AIA - "Asbestos In the Atmosphere"
AIA - "Asbestos in Water"
AIA - Molding & Fabrication of Asbestos-Containing Plastic Products, Work Practices
Partnership for Prevention - "The Insulation Industry Hygiene Research Program"-4/70
Asbestos - Reprint from National Safety News - 10/73
"Asbestos Health Question Perplexes Experts," C & EN - 12/10/73
Disputes on the Safety of Asbestos - New Scientist 3/7/74
JLM - "Chrysotile Asbestos in Plastics"
Asbestos & Silica Dust in the Drywall Industry. Part 1-Nov./Dec. 1975
Asbestos & Silica Dust in the Drywall Industry. Part 2-Jan./Feb. 1976
Detection of Chrysotile Asbestos in Airborne Dust from Thermosetting Resin Grinding - 1975
"Calidria" Asbestos Pellets - Health and OSHA Information
"Calidria" Asbestos RG-244 - Health and OSHA Information
"Calidria" Asbestos RG-600 - Health and OSHA Information
"Calidria" Asbestos Pellets - JLM, "ASBESTOS" - 10/71

A0024