PLAINTIFF'S EXHIBIT
UC-1133

CHEMICALS

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STORES DEPT.
JUL

July 21, 1976

Materials Management

Asbestos Exposure

Copy To: P. H. Day, 512
N. S. Eastman, 511
A. Walker, NYO-21

Gentlemen:

Attached is a report by the Institute Plant Industrial Hygiene Department on the potential of asbestos exposure when dispensing stockroom materials.

The highest levels of exposure were obtained when handling Flexitallic gaskets and asbestos rope.

After examining the report, you may want to review your safety procedures for these items.

Very truly yours,

R. O. Spencer

ROS/wkm

Attachment

Texas Coordinating Board Texas College 3345 Hanson at Wood College 12788 Pappas at Texas Dush

UCTC 17277

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CHEMICALS AND PLASTICS

(Name) Mr. P. H. Day — (Date) July 9, 1976

(Division) IH – Industrial Hygiene

Mr. J. E. McDermott, Jr.
Dr. R. J. Sexton
Mr. F. Williams

Employee Exposure to Asbestos – Plant
Stores Building 310

In response to questions by Plant Stores Employees, you have asked for asbestos exposure levels to be determined at certain locations within Building 310. Evaluation of storage conditions and dispensing methods has been made together with appropriate area and personal sample collection. The conditions of sampling and results are reported as follows:

SAMPLE DATE	TYPE SAMPLE	SPECIFIC LOCATION AND/OR CONDITIONS	ASBESTOS FIBERS/ML AIR COUNT	TLV
6-7-76	Area	Asbestos rope storage and dispensing.	0.13	2.0
6-16-76	Personal*	employee untangled and prepared 10ft. of 3/4" Asbestos Rope for dispensing.	0.76	2.0
6-16-76	Personal*	Employee replaced rope in bin and swept aisle of fallen fibers – five minutes.	0.0	2.0
6-16-76	Area	3' above rope storage bin – during two five-minute sampling periods above.	0.35	2.0
6-16-76	Personal*	During five-minute sample per period, Employee Simulated filling gasket orders from Row 43, 44, and 51 bins.	1.0	2.0
6-16-76	Area	4 1/2 feet above Row 44 gasket bins during personal sampling above.	0.0	2.0
6-16-76	Area	6" above floor during above sampling – Includes three passages through aisle and two trips on Transporter.	0.0	2.0

*All personal samples were collected on the person of and with the cooperation of Mr. R. O. Hanna. A 3M respirator was worn by Mr. Hanna, at our request.

The potential for excessive employee exposure to asbestos fibers is apparent at the different storage bin locations, and especially at the asbestos rope dispensing bin. Each time rope or gaskets are removed from the storage bin, asbestos fibers are released and are plainly visible. Liberated fibers are deposited and/or are accumulated on the floor with the potential of becoming airborne due to sweeping or generated air currents.

Although the potential for excessive exposure appears to be serious, the results obtained during our sampling evaluation are well within the limits of the new TLV of two fibers greater than five micrometers per milliliter of air. One reasonable explanation for the lower than expected values is that fibers being liberated are large and of sufficient density that they do not easily become airborne. Asbestos must, nevertheless, be controlled wherever possible.

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MULTIPLE DISTRIBUTION

FUNCTION DESCRIPTION - PIPING TECHNOLOGY

1 GENERAL

1.1 SCOPE - Piping Technology may be broadly defined as the technical knowledge required to support all facets of our piping work. Persons involved in our Piping Technology activities are especially concerned with: maintaining knowledge of national codes and standards and their application to our work; establishing the need for, developing, and publishing UCC Chemicals/Plastics piping standards and standard specifications; preparing, on request, special valve and piping specifications; valve selection and specification; piping mechanical design; keeping current on vendor technical information; consultation on piping problems, and preparing project criteria for piping. These activities are intended to support primarily the UCC Chemicals/Plastics Division plus Fonce, but, on request, consultative help is geven other parts of the corporation as manpower permits.

1.2 ORGANIZATION - Piping Technology is one of the responsibilities of the Engineering Department's Process Vessel and Piping Technology Group. An Engineering Consultant is functionally responsible for the entire Piping Technology activity with other individuals responsible for specific parts of it. Below is a listing of persons in Piping Technology, their general areas of responsibilities, and their phone numbers. In general, inquiries should be directed in accordance with assigned responsibilities, but may be directed to anyone in Piping Technology. The person to whom an inquiry is directed will involve other persons as is appropriate.

Name	General Responsibility	Phone	
		Office	Home
O. W. Moody, Jr.	Overall Piping Technology and Piping Standards Team Chairman	(304)747-4850	(304)346-6589
E. N. Dotson	Mechanical Design	(304)747-5530	(304)949-2939
L. A. Peggs	Underground Piping	(304)747-4791	(304)364-7716
F. X. Schoen	Above Grade Piping	(304)747-4857	(304)727-4165

All have the following mailing address:

Union Carbide Corporation
Technical Center
P. O. Box 8361
South Charleston, W. Va. 25303

2 PIPING TECHNOLOGY MANUALS

2.1 GENERAL - Much UCC Chemicals/Plastics Piping Technology is made available through a series of manuals. These manuals are a part of the overall Engineering Department technology manuals program. They contain piping standards and standard specifications developed through the UCC Chemicals/Plastics Engineering/Operations Standards Program and other documents. Eight Piping Technology manuals have been issued. A brief description of the contents of these manuals is given below. An index to documents on above grade piping and underground piping documents is given in Table 1.

2.2 PIPING TECHNOLOGY - PRESSURE PIPING MANUAL - This manual applies to above grade piping. It contains basic criteria for all such piping, mechanical design requirements; pressure testing requirements; and all piping standards. Documents covering design methods and computer programs will be added later. Prefix for documents is PPM or P.

This manual is needed primarily by persons involved in the mechanical design or pressure testing of above grade piping.

2.3 PIPING TECHNOLOGY - VALVE AND PIPING SPECIFICATIONS MANUAL - This manual contains all UCC Chemicals/Plastics general piping specifications (prefix PPF) and all valve and piping material specifications (e.g. 1B2, 1C2) for above grade piping.

16.0.10.1	16.0.50.1
16.0.20.1	16.0.60.1
16.0.30.1	16.0.70.1
16.0.40.1	16.0.80.1

Union Carbide trial exhibit UC-1133: R. O. Spencer to Plant Distribution List Transmitting Industrial Hygiene Report...
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Ideally, asbestos-containing [illegible] having proper ventilation, at locations [illegible] however, do not indicate exposure levels of a [illegible] as a requirement. We do offer recommendations for your consideration as follows:

FIRST: Relocate the storage area of 3/4" asbestos rope to a more remote area of the building where there is less order filling activity. Provide a partially unreeled spool type dispenser to avoid work with an unwound coil material, which seems to be encountered each time an order is filled. Another possibility would be to have employees wear 3M Respirators and prepare pre-weighed or lengths of rope [illegible] bags for ready order filling.

SECOND: Consideration be given to individual wrapping [illegible] gaskets being stored and dispensed in plastic bags. This practice would avoid possible exposure of employees other than Stores personnel to asbestos fibers [illegible] from the gaskets through handling until final application.

THIRD: Make 3M Respirators readily available to all [illegible] Asbestos and other job tasks where need for a respirator is apparent.

Please inform Mr. Hoffman and Mr. Carey of the results of the above listed samplings and should there be further questions, please call me.

[illegible]

JHHF/kjs

UCTC 17280