PLAINTIFF'S EXHIBIT

UC-4121

AIRBORNE DUST COUNTS

for

TAPE JOINT & TEXTURE PAINT COMPOUNDER

October 5, 1972

Personnel Present: E. J. Kleber
Customer Service Representative
Union Carbide Corporation

T. P. Norris
Midwest Region Sales Manager
Union Carbide Corporation

UNION CARBIDE CORPORATION
Mining and Metals Division
Niagara Falls, New York

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The results of microscope counts for air samples collected at
September 11, 1972 are attached.

Apparatus & Procedure

Sampling and dust counting were carried out in accordance with OSHA Regulation 1910.93a.

Unico Personal Air Samplers, calibrated to 2 liters per minute, were used to collect personal breathing zone and environmental samples on Millipore membrane filters of 0.8 micron porosity.

Fiber counting was performed on a Leitz microscope utilizing phase contrast illumination at 400X and a Patterson Globe and Circle reticle.

Total dust was determined by light field microscopy at 100X.

Test Results

Two figures have been reported for each sample. They are:

1) Total Fiber - Any material 5 microns or longer having an aspect ratio of 3 or greater. Reported as fibers per milliliter.

2) Total Dust - Any fiber or particle present. Reported as million particles per cubic foot.

Enclosed for reference is a copy of the OSHA Standard for exposure to asbestos dust, which includes silica and inert dust limits.

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SUMMARY OF DUST COUNTS

N.B. No.	Description	Asbestos Fiber Count Fibers/ml > 5μ	Total Dust mmpcf
1929-18-1	Personal - Dumping of Canadian asbestos during preparation of a batch of ready mix	2.59	9.61
1929-18-2	Environmental - Twin mixing area 5 1/2 feet above hooded mix tank. Area where batch of dry joint cement (spray) is being prepared	0.54	2.17
1929-18-3	Personal - Twin mixing area during dumping of Canadian asbestos, $CaCo_3$, clay, mica, cellulose and starch into hooded mix tank during preparation of dry joint cement	3.34	9.09
1929-18-4	Personal - At surfacer mixer during dumping of ingredients for spray compound containing $CaCo_3$, clay, asbestine, cellulose and T-135-O	4.66	26.32
1929-18-5	Environmental - Bag filling area, 5 1/2 feet above floor near operator	1.71	5.13

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