

Inter Company Correspondence

To-Name & Department: . T. Engelbrecht Plant Manager
 From-Name & Department: E. J. Mathews Industrial Hygiene Personnel
 Division: Basic Manuf. Div.
 Date: April 3, 1973
 Plant Office: Eldon Avenue Axle
 CHMS Number: 440-10-01
 CHMS Number: 417-05-19
 Chrysler Center

Subject: Asbestos Dust

**PLAINTIFF'S
EXHIBIT**

CHR-95

On March 20, 1973 a special survey was performed at the Eldon Avenue Axle Plant to measure airborne asbestos fiber concentrations while emptying the hopper of the dry collector system that ventilates the brake shoe grinding machines in Department 78.

The disposal operation involves emptying the dust collection hopper of the dry collector into a specially designed plastic bag. The bag is attached to the bottom of the hopper and the dust within is discharged into the bag through a valve. When the bag is full, it is tied, uncoupled from the hopper discharge chute, and placed into a tote box. This procedure is repeated until the hopper is empty.

During the transfer of the asbestos containing dust from the hopper to the plastic bags, both breathing zone and general air samples were collected. Laboratory analyses (the results are listed on the attached data sheet) indicate that the airborne asbestos concentrations were below the threshold limit value of 5 fibers per milliliter of air for fibers greater than 5 microns in length.

E. J. Mathews

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Industrial Hygienist

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Attachments

cc: W. F. Bavinger
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**PLAINTIFF'S
EXHIBIT**

NO. CH-14

Data Sheet
Eldon Avenue Axle Plant
March 20, 1973

Location: Dry Collector in Department 78	Airborne asbestos fiber concentrations in fibers per milliliter during disposal operations (a)
Job Description:	
Threshold Limit Value (b)	5 fibers/ml > 5 microns in length
Breathing zone of employee bagging dust from hopper	0.56
Adjacent to hopper discharge point at shutoff valve	0.63
General air around hopper discharge point.	0.25
General air six feet down- wind from hopper discharge	0.29

(a) Exposure concentrations obtained during unloading of collector which represents less than one hour exposure.

(b) Time weighted average concentration for a daily eight-hour exposure.

The asbestos samples were collected on cellulose ester membrane filters using MSA, Bendix and Millipore vacuum pumps. The fibers were counted on a phase-contrast Bausch and Lomb microscope.