



File Code

Date

March 11, 1977

To—Name & Department

Division

Plant/Office

CIMS Number

R. Normandin
Name & Department

Plant Manager

Gen. Mfg.

Toledo Machining 474-00-

Division

Plant/Office

CIMS Number

D. P. Glazier

Industrial Hygiene

Employee &

Ind. Relations Chrysler Center 417-05-

Subject:

INDUSTRIAL HYGIENE SURVEY*Copy given to Suter 3/22/77*

On February 11, 1977, the writer investigated employee exposure to airborne asbestos fibers and oil mist at the Toledo Machining Plant. The results of this survey are listed on the attached data sheets opposite the corresponding job description.

At the time of this survey it was noted that certain skids of disc brake shoes (Part No. 4036009) shipped from Trenton Chemical on January 11, 1977 appeared to be contaminated with significant quantities of loose asbestos dust. Subsequent air samples obtained in the breathing zone of the most severely affected employee, i. e., air sample (1), indicated a time-weighted average asbestos exposure of 1.9 fibers per cubic centimeter of air. The OSHA Permissible Exposure Limit for asbestos is 2.0 fibers, longer than five microns in length, per cubic centimeter of air. Past experience at this work station has shown that exposures of this magnitude will only occur when the brake shoes are contaminated with significant quantities of loose asbestos dust.

Chrysler Chemical Division has informed the corporate Industrial Hygiene Department that the dust condition observed on February 11, 1977 resulted from inadequate maintenance of the "defuzzer" cleaning brush, which removes loose asbestos fibers from the disc brake shoes prior to shipment. In addition, Chemical Division has assured us that they will carefully monitor the condition of the "defuzzer" equipment and the disc brake shoes, so as to prevent any recurrence of the dust condition which existed at the time of this survey.

No corrective action is recommended at this time for those work stations where employee exposure was found to be well within the applicable OSHA Permissible Exposure Limit.

DANIEL P. GLAZIER
Industrial Hygienist

dms

Attachments

cc: F. A. Burnett
T. P. Duross
S. C. Enders

E. A. Kolacki
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G. A. Sattelmeyer
R. L. Suter

Data Sheet
Toledo Machining Plant
February 11, 1977

ASBESTOS

Location

Concentration

OSHA Permissible Exposure Limit

2.0
(fibers, longer than
five microns, per
cubic centimeters
of air)

Department 9847 - West Line

1) Personal air sample, T. Randall 5444,
stacking inner and outer disc brake
pads prior to assembly, time-weighted
average concentration

1.9

2) Personal air sample, J. Wright 9720,
inner disc brake shoe assembly

0.1

3) Personal air sample, S. Seem 1474,
adapter assembly

< 0.1

Department 9847 - East Line

4) Personal air sample, D. DiLucia 5719,
stacking inner and outer disc
brake shoes prior to assembly

0.2

5) Personal air sample, J. Fleming 8373,
inner and outer disc brake shoe
assembly

< 0.1

All determinations of airborne asbestos fiber concentrations were made by the Industrial Hygiene Laboratory using the OSHA dictated membrane filter method at a magnification of 430X with phase contrast illumination.

Data Sheet
TOLEDO MACHINING PLANT
February 11, 1977

OIL MIST

Location

Concentration

OSHA Permissible Exposure Limit

5.0
(milligrams per
cubic meter of air)

- 1) Personal air sample, R. Kujawski, 2682,
placing covers and plugs on the Master
Cylinder after the fill operation

0.2

The above air sample was collected on a glass fiber filter and analyzed by the Industrial Hygiene Laboratory using a gravimetric technique.