

Union Carbide
Agricultural Products Company, Inc.
Institute Plant

INDUSTRIAL HYGIENE SAMPLING RESULTS

TO: Mr. D. A. Duga COPIES TO: Mr. R. F. Jenkins

Building: 23 Mr. C. E. Miller

Institute Plant Mr. L. W. Youngblood

Purpose: X Routine Special Request
 Regulatory Agency Inspection

Sample Date(s): November 12, 1986

Sample Location: Vehicle Garage Department No.: 327

Process/Activity: Brake cleaning, repair and replacement

Contaminant: Asbestos Fibers

Exposure Limit: OSHA 0.2f/cc (TWA₈); - (TWA₁₂)
ACGIH 0.2f/cc (TWA₈); - (TWA₁₂)
UCC (TWA₈); - (TWA₁₂)

Sample Type: X Personal X Area Source
 Surface Wipe Other (See comments)

Analytical Method: Per 29 CFR 1910.1001, Appendix A

Results: See Comments X See Attached Table

COMMENTS: Two auto mechanics were monitored for exposure to airborne asbestos fibers on the above date while performing vehicle brake maintenance. Area concentrations of airborne asbestos fibers were measured too. The maintenance activities included cleaning the brake shoes and drums on a van, installing new brake shoes on a forklift and cleaning the drums and brake shoes on a flatbed truck.

In order to minimize asbestos fiber generation, Varsol was applied to the brakes during maintenance. In addition, one of the mechanics wore a respirator while servicing the van and the forklift. The other mechanic used no personal protection while working on the flatbed truck. All of the work was performed inside the garage.

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The 8-hour time-weighted average exposures for the two mechanics were well below the permissible exposure limit and the action level (i.e., less than one-half the PEL). In addition, two area samples taken in close proximity to the brake maintenance work areas were below the action level. A third area sample, taken in the vicinity of the new brake pad storage area, was well below the action level.

Currently, no action is required except that these results must be reviewed with all affected employees (i.e., any auto mechanics who may perform brake maintenance). In lieu of reviewing this, a copy of the results may be posted in the garage area where all affected employees can see it.

Please contact this office when additional brake maintenance occurs so more monitoring can be performed. If you have any questions on this, call me at the extension shown below.

Report Date: January 12, 1987

Signed: Erik A. Osley Bldg. 2 Room: 172 Phone 6105

NOTE: PERSONAL SAMPLE RESULTS MUST BE DISCUSSED

WITH ALL AFFECTED EMPLOYEES

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WORKPLACE LOCATION: Vehicle Garage

NAME(s) OF SAMPLER(s): J. L. Miller

CONTAMINANT: Asbestos Fibers

REPORT DATE: January 12, 1987

OSHA PEL: TWA₈ 0.2f/cc TWA₁₂ -

ACGIH TLV: TWA₈ 0.2f/cc TWA₁₂ -

UCC GUIDELINE: TWA₈ - TWA₁₂ -

Sample Number	Sample Date	Sample Description	Sample Time (min.)	Sample Results (f/cc)
		<u>AUTO MECHANICS</u>		
W4765 - AA10429	11-12-86	L. M. Hoffman	400	0.006
				TWA ₈ = 0.005
W4765 - AA10433	11-12-86	W. C. Glenn	100	0.01
				TWA ₈ = 0.002
W4765 - AA10431	11-12-86	Five feet south of Chevy van while brakes were inspected and cleaned.	40	0.05
W4765 - AA10432	11-12-86	Front of fork truck while new brake shoes were installed.	391	0.009
W4765 - AA10430	11-12-86	Breathing zone level next to shelf where new brake pads and shoes are stored in storeroom.	165	0.006

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