



Dow U.S.A.

The Dow Chemical Company
P.O. Box 180
Birmingham, Louisiana 70765-0180

June 22, 1992

Daniel Cortez Petrin Building 4106
Eddie Guillory Petrin

cc: Billy Hood Chlorine Building 2601

Asbestos Monitoring

Enclosed are sample results for potential exposure to asbestos.

The OSHA 8-hour permissible exposure limit for asbestos is 0.2 f/cc >5 microns and the 30-minute short term exposure limit is 1 f/cc >5 microns.

The results displayed are based on sampling duration.

The data sheet shows the results of exposure using two methods, the Limit of Detection (LOD) and the Limit of Quantitation (LOQ). Included on the data sheet is an explanation of the method Limit of Quantitation.

Thank you,

Darlene S. Creel
Industrial Hygiene
Ext. 6181
Building 3502-E

Attachment

dsc

PRODUCED FOR THE ASBESTOS DATABASE
DATE: 6-22-92
MASTER No. 433871 ASC

DO A 114980
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EXPOSURE GUIDELINES

8-HR. TWA LIMIT = 0.20 FIB/CC

30-MINUTE LIMIT = 1.0 FIB/CC

LIMIT OF DETECTION = 7 FIB/MM2

LIMIT OF QUANTITATION = 100 FIB/MM2

**LOD

***LOQ

ASBESTOS MONITORING DATA RESULTS: Chlorine 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
5/7/92	13546	*433-23-2653	Insulator: Removing sandy sludge from sewer sump, which contains 5% asbestos by weight. WET METHOD	30	75	<0.01	<0.51
5/12/92	13452	*433-82-4840	Insulator: Cutting asbestos gaskets with shears. WET METHOD	30	76	0.01	<0.51

* The proper protective clothing was worn during the job. North 7700 Respirator with HEPA filters were worn during the job.

Note: The Limit of Quantitation has been defined as 100 Fibers/MM2 using the minimum fiber loading criteria specified. In the NIOSH analytical method 7400, the stated range of the method is 100 to 1300 Fibers/MM2 filter area. Although samples below this range can be analyzed, the method has not been validated below 100 Fibers/MM2. However, the NIOSH method 7400 also establishes the estimated Limit of Detection as 7 Fibers/MM2 (Reference OSHA Std. 1910.1001, Appendix B). Based on this information, we will establish 100 Fibers/MM2 filter area as our Limit of Quantitation and 7 Fibers/MM2 filter area as our Limit of Detection (which is more representative of the actual fibers present) for asbestos monitoring. We will report both Limit of Quantitation and Limit of Detection.

If only Limit of Quantitation were expressed, the minimum reportable result would calculate to be 0.04 Fibers per cc for an 8-hr. Time weighted average sample at a flow rate of 2 liters per minute and 0.6 fibers per cc for a 30 minute time weighted average short term sample at a flow rate of 2 liters per minute.

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DOW LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE N^o 13546

PLANT/DEPT. Chlorine
MONITORING FOR Asbestos Fibers

DATE 5-7-92
OTHER CHEMICALS PRESENT _____

SAMPLE COLLECTION MEDIA
☐ BADGE NO _____ TYPE _____
TEMP/HUMIDITY (REQUIRED FOR BADGES) _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 2.5" 2m
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

PUMP SERIAL NO 5122
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:
BEGIN 1. 2526 2520
2. 2518
3. 2513

BEGINNING FLOW RATE AVG. 2521 ☒ CC/MIN ☐ L/MIN
ENDING 1. 2491
2. 2487
3. 2474

ENDING FLOW RATE AVG. 2485 ☒ CC/MIN ☐ L/MIN

SAMPLE AVERAGE FLOW RATE 2513

TIME STARTED 12:30 PM
TIME STOPPED 1:00 PM
TOT. RUNNING TIME(MIN) 30 min

SAMPLE VOLUME (AVG FLOW X RUN TIME) 75

SHIFT: ☒ 8 HR. ☐ 12 HR ☒ PERSONNEL SAMPLE ☐ AREA SAMPLE
☐ FULL SHIFT TWA
☐ STEL/TASK

EMPLOYEE NAME Wardell Acosta
EMPLOYEE I.D.# 433-23-2653
JOB CLASSIFICATION insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petru Corp.

RESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE Mouth 7700 w/hypr
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Removing sandy sludge from sewer
sump, which contains 550 Asbestos by weight- wet method

ANALYTICAL REPORT REFERENCE # 20-3364
ANALYTICAL RESULTS 490 LOD LOD
* RESTRICTED FOR USE WITHIN DOW ONLY * VP-124

FORM FILLED IN BY: Eddie Dooling

DOW LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE N^o 13452

PLANT/DEPT. Chlorine
MONITORING FOR Asbestos Fibers

DATE 5-12-92
OTHER CHEMICALS PRESENT _____

SAMPLE COLLECTION MEDIA:
☐ BADGE NO _____ TYPE _____
TEMP/HUMIDITY (REQUIRED FOR BADGES) _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 2.5 mm
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

PUMP SERIAL NO. 8817
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:
BEGIN: 1. 2524 2514
2. 2508
3. 2510

BEGINNING FLOW RATE AVG. 2513 ☒ CC/MIN ☐ L/MIN
ENDING 1. 2516
2. 2523 2520
3. 2530

ENDING FLOW RATE AVG. 2527 ☒ CC/MIN ☐ L/MIN

SAMPLE AVERAGE FLOW RATE 2520

TIME STARTED 9:30 AM
TIME STOPPED 10:00 AM
TOT. RUNNING TIME(MIN) 30 min

SAMPLE VOLUME (AVG FLOW X RUN TIME) 76

SHIFT: ☒ 8 HR. ☐ 12 HR ☒ PERSONNEL SAMPLE ☐ AREA SAMPLE
☐ FULL SHIFT TWA
☐ STEL/TASK

EMPLOYEE NAME Clyde Dorsons
EMPLOYEE I.D.# 433-22-4840
JOB CLASSIFICATION insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petru Corp.

RESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE Mouth 7700 w/hypr
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Cutting asbestos gaskets with chains-
wet method

ANALYTICAL REPORT REFERENCE # 20-3364
ANALYTICAL RESULTS 490 LOD LOD
* RESTRICTED FOR USE WITHIN DOW ONLY * VP-124

FORM FILLED IN BY: Eddie Dooling

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