Dow U.S.A.

The Dow Chemical Company
P O Box 150
Plaquemine Louisiana 70765-0150

April 27,1992

Daniel Cortez Petrin Building 4106
Eddie Guillory Petrin

cc: Dale Crochet CA II Building 3601

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

DO A 114903
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PRODUCED FOR THE ASBESTOS DATABASE
DATE: 4-27-92
MASTER No. 433871

EXPOSURE GUIDELINES
8-HR. TWA LIMIT - 0.20 FIB/CC
30-MINUTE LIMIT = 1.0 FIB/CC
**LOD LIMIT OF DETECTION = 7 FIB/MM2
***LOQ LIMIT OF QUANTITATION = 100 FIB/MM2

ASBESTOS MONITORING DATA RESULTS: CA II 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
4/16/92	13562	*433-19-6528	Insulator: Removing 3 - 12" ninties from 5-404 front steam heater. WET METHOD USED	30	84	0.01	<0.46

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

Not : Th 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, th 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 tim weighted average short term sample at a flow rate of 2 liters per minute.

DOW LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD SAMPLE Nº 13562

PLANT/DEPT. CA II
MONITORING FOR: As Bestos F. Bers

DATE 4-16-92
OTHER CHEMICALS PRESENT:

SAMPLE COLLECTION MEDIA:
- ☐ BADGE NO. _____ TYPE _____
- TEMP/HUMIDITY: (REQUIRED FOR BADGES) _____
- ☐ CHARCOAL TUBE SIZE _____
- ☑ FILTER CASSETTE SIZE 25 MM
- ☐ SILICA TUBE SIZE _____
- ☐ DRAGER TUBE TYPE _____
- ☐ OTHER _____

PUMP SERIAL NO. 9796
CALIBRATION DEVICE: ☑ BUBBLEMETER ☐ ROTAMETER ☐ OTHER _____

PUMP FLOW RATE CALIBRATION:
BEGIN: 1. 2506 2545
2. 2602
3. 2590
BEGINNING FLOW RATE AVG. 2583 ☑ CC/MIN ☐ L/MIN
ENDING: 1. 3100 3033
2. 3109
3. 3042
ENDING FLOW RATE AVG. 3017 ☑ CC/MIN ☐ L/MIN

SHIFT: ☑ 8 HR. ☐ 12 HR. ☑ PERSONNEL SAMPLE ☐ AREA SAMPLE
- ☐ *FULL SHIFT TWA*
- ☐ *STEL/TASK*

SAMPLE AVERAGE FLOW RATE 2800

EMPLOYEE NAME Trevor Simon
EMPLOYEE I.D.# 433-14-6528
JOB CLASSIFICATION Insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petin Corp.

TIME STARTED 10:30 Am
TIME STOPPED 11:00 Am
TOT. RUNNING TIME(MIN) 30 min.

RESPIRATOR USED? ☑ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE North 7700 w/hepa
- ☐ MOUTH-BIT ☐ DUST ☑ HALF-FACE
- ☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

SAMPLE VOLUME (AVG FLOW X RUN TIME) 84

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Removing 3 12" mintis from E-404 front steam heater. Wet method

ANALYTICAL REPORT REFERENCE # 20-3290
ANALYTICAL RESULTS: 490 <0.01 20.46
West Paine Lab

* RESTRICTED FOR USE WITHIN DOW ONLY * VP-124

FORM FILLED IN BY: Eddie Guillory

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