



Dow U.S.A.

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

December 3, 1992

Daniel Cortez Petrin Building 4106

cc: Wayne Russell Cellulose Building 4501

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-W

Attachment

dsc

PRODUCED FOR THE ASBESTOS DATABASE

DATE: 12/3/92

MASTER No. W33871 WSC

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LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE No 15452

PLANT/DEPT. Cellulose
MONITORING FOR: Asbestos FibersDATE 11-11-92
OTHER CHEMICALS PRESENT: _____TEMP. 72 DEGREE F HUMIDITY 95-90
SAMPLE COLLECTION MEDIA:

- ☐ BADGE NO. _____ TYPE _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 25 mm
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

SHIFT: ☐ 10 HR. ☒ PERSONNEL SAMPLE ☐ AREA SAMPLE
☐ 12 HR. ☐ FULL SHIFT TWA 15-20 WIND
☒ 8 HR. ☐ STEL/TASK DIRECTIONEMPLOYEE NAME Wendell AcostaEMPLOYEE I.D.# 433-23-2653JOB CLASSIFICATION Insulator

IH JOB CODE # _____

CONTRACTOR COMPANY Petrin Corp.RESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE North 7700

- ☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Wet Method Used Whiteremoving 16 # of broken transiteANALYTICAL REPORT REFERENCE # 20-8520
ANALYTICAL RESULTS: Wet Method Used White 1471

* RESTRICTED FOR USE WITHIN DOW ONLY *

VP-124

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

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 2421 24212. 24283. 2423BEGINNING FLOW RATE AVG. 2423 ☒ CC/MIN ☐ L/MINENDING: 1. 2444 24342. 24443. 2436ENDING FLOW RATE AVG. 2440 ☒ CC/MIN ☐ L/MINSAMPLE AVERAGE FLOW RATE 2431.5TIME STARTED 8:30 Am
TIME STOPPED 4:00 pm
TOT. RUNNING TIME(MIN) 70 min. (17)SAMPLE VOLUME (AVG FLOW X RUN TIME) 729.450.02
LOD < 0.53
LOD
FORM FILLED IN BY: David C. C.DO A 115066
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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: CELLULOSE 1992**

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
11/11/92	15452	*433-23-2653	INSULATOR: Removing 16# of broken transite WET METHOD USED	30	72	0.02	<0.53

* The proper protective clothing was worn during the job. North 7700 Half-face 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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