



Dow U.S.A.

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

December 28, 1992

Daniel Cortez Petrin Building 4106

cc: Dan Jones Glycol I Building 1501

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

PRODUCED FOR THE ASBESTOS DATABASE
DATE: 12-28-92
MASTER No. 433871 DSC

Attachment

dsc

DO A 114673
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LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE NO 15811

PLANT/DEPT. Allyl I
MONITORING FOR: Asbestos FibersDATE 12-16-92
OTHER CHEMICALS PRESENT: _____TEMP. 60-65 DEGREE F HUMIDITY 100%

SAMPLE COLLECTION MEDIA:

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

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

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 2123 2127
2. 2122
3. 2132BEGINNING FLOW RATE AVG. 2126 ☒ CC/MIN ☐ L/MINENDING: 1. 2124 2122
2. 2124
3. 2122ENDING FLOW RATE AVG. 2126 ☒ CC/MIN ☐ L/MINSAMPLE AVERAGE FLOW RATE 2126SHIFT: ☐ 10 HR. ☒ PERSONNEL SAMPLE ☐ AREA SAMPLE
☐ 12 HR. ☐ FULL SHIFT TWA _____ WIND _____
☒ 8 HR. ☐ STEL/TASK _____ DIRECTION _____EMPLOYEE NAME James Sparks
EMPLOYEE I.D.# 436-74-3503
JOB CLASSIFICATION Insulator
IH JOB CODE # _____
CONTRACTOR COMPANY PetrolTIME STARTED 9:33 AM
TIME STOPPED 10:05
TOT. RUNNING TIME(MIN) 32 minRESPIRATOR USED? ☒ YES ☐ NORESPIRATOR MODEL / CANISTER TYPE North 7700 w/ Haps 1.2 SAMPLE VOLUME (AVG FLOW X RUN TIME) 680-72

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

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Wet Method used whileRemoving Asb. Insul. from 1.5" pipeANALYTICAL REPORT REFERENCE # 209306
ANALYTICAL RESULTS: West Prime lab 490 <0.01 LOA LOA 57

* RESTRICTED FOR USE WITHIN DOW ONLY *

VP-124

FORM FILLED IN BY: Daniel LongDO A 114674
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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: GLYCOL I 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
12/16/92	15811	*436-74-3503	Insulator: Removing Asbestos insulation from 1.5" pipe WET METHOD USED	32	68	<0.01	<0.57

* 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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