Dow U.S.A.

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

March 23, 1992

Daniel Cortez Petrin Building 4106
Eddie Guillory Petrin

cc: Greg Miller Glycol II Building 5301

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

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: GLYCOL II 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
3/9/92	13923	*456-26-3737	Insulator: Removing asbestos insulation from 2" line WET METHOD USED	30	71	0.51	<0.54
3/9/92	13920	*439-31-5889	Insulator: Removing asbestos insulation from 2" line WET METHOD USED	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.

DOW **LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD** SAMPLE Nº 13920

PLANT/DEPT. Glycol II
MONITORING FOR: Asbestos Fibers

DATE 3-9-92
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. 2524 2. 2541 3. 2545 2549
BEGINNING FLOW RATE AVG. 2540 ☑ CC/MIN ☐ L/MIN
ENDING: 1. 2551 2. 2518 3. 2518 2530
ENDING FLOW RATE AVG. 2524 ☑ CC/MIN ☐ L/MIN

SAMPLE AVERAGE FLOW RATE 2532

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

EMPLOYEE NAME Wes Howard
EMPLOYEE I.D.# 439-31-5889
JOB CLASSIFICATION Insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petrin Corp

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

SAMPLE VOLUME (AVG FLOW X RUN TIME) 76

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

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Removing asbestos insulation from 2" line - wet method

ANALYTICAL REPORT REFERENCE # _____
ANALYTICAL RESULTS: West Paine 490 0.01 LOD 40.51 LOQ _____

*** RESTRICTED FOR USE WITHIN DOW ONLY *** VP-124 FORM FILLED IN BY: Gabbie Guillory

DO A 114662
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DOW **LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD** SAMPLE Nº 13923

PLANT/DEPT. Glycol II
MONITORING FOR: Asbestos Fibers

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 _____

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

EMPLOYEE NAME Pernell Smith
EMPLOYEE I.D.# 456-26-3737
JOB CLASSIFICATION insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petrin Corp

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

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Removing Asbestos insulation from 2" line - wet method

DATE 3-9-92
OTHER CHEMICALS PRESENT: _____

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

PUMP FLOW RATE CALIBRATION:
BEGIN: 1. 2575 2547
2. 2564
3. 2522
BEGINNING FLOW RATE AVG. 2531 ☑ CC/MIN ☐ L/MIN

ENDING: 1. 2199 2169
2. 2220
3. 2208
ENDING FLOW RATE AVG. 2199 ☑ CC/MIN ☐ L/MIN

SAMPLE AVERAGE FLOW RATE 2365

TIME STARTED 10:15 AM
TIME STOPPED 10:45 AM
TOT. RUNNING TIME(MIN) 30 Min

SAMPLE VOLUME (AVG FLOW X RUN TIME) 71

ANALYTICAL REPORT REFERENCE # _____
ANALYTICAL RESULTS: 36,293 West Paine Lab. | 0.51 LOD | <0.54 LOQ

*** RESTRICTED FOR USE WITHIN DOW ONLY ***

VP-124

FORM FILLED IN BY: Eddie Dunbar

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