



Dow U.S.A.

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

April 27, 1992

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cc: Sam Boudreaux Caustic Building 2901

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

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PRODUCED FOR THE ASBESTOS DATABASE
DATE: 4-27-92
MASTER NO. 733871

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: CAUSTIC 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
4/20/92	13523	*433-04-9195	Insulator: Cleaning up asbestos insulation that has contaminated a ditch. - WET METHOD USED	30	74	<0.01	<0.52
4/23/92	13525	*433-04-9195	Insulator: Regulated area; transferring insulation from barrels to labeled bags. - 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.

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LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE NO 13523

PLANT/DEPT. Caustic
MONITORING FOR: Asbestos FibersDATE 9-20-92
OTHER CHEMICALS PRESENT: _____

SAMPLE COLLECTION MEDIA:

- ☐ BADGE NO. _____ TYPE _____
TEMP/HUMIDITY: (REQUIRED FOR BADGES) _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 25mm
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

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

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 2514 2512
2. 2485
3. 2494BEGINNING FLOW RATE AVG. 2498 ☒ CC/MIN ☐ L/MINENDING: 1. 2436 2404
2. 2413
3. 2423ENDING FLOW RATE AVG. 2419 ☒ CC/MIN ☐ L/MINSAMPLE AVERAGE FLOW RATE 2458TIME STARTED 1:00 PM
TIME STOPPED 1:30 PM
TOT. RUNNING TIME(MIN) .30 min.SHIFT: ☒ 8 HR. ☐ 12 HR. ☐ PERSONNEL SAMPLE ☐ AREA SAMPLE
☐ FULL SHIFT TWA
☐ STEL/TASKEMPLOYEE NAME George Harris
EMPLOYEE I.D.# 433-04-0195
JOB CLASSIFICATION Insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petco Corp.RESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE North 7700 w/lyga
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBASAMPLE VOLUME (AVG FLOW X RUN TIME) 74DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING cleaning up asbestos insulation that
has contaminated a ditch. - wet methodANALYTICAL REPORT REFERENCE # Report # 20-3360
ANALYTICAL RESULTS 5400 20.01 20.52

* RESTRICTED FOR USE WITHIN DOW ONLY *

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FORM FILLED IN BY: Eddie Guillory 41DO A 114654
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LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE No 13525

PLANT/DEPT. Caustic
MONITORING FOR: Asbestos FibersDATE 4-23-92
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. 2541 2540
2. 2546
3. 2526BEGINNING FLOW RATE AVG. 2531 ☒ CC/MIN ☐ L/MIN
ENDING: 1. 24672. 2508 2543
3. 2537ENDING FLOW RATE AVG. 2519 ☒ CC/MIN ☐ L/MIN

SAMPLE AVERAGE FLOW RATE

2525TIME STARTED 1:05 PM
TIME STOPPED 1:35 PM
TOT. RUNNING TIME(MIN) 30 min

SAMPLE VOLUME (AVG FLOW X RUN TIME)

76RESPIRATOR USED? ☒ YES ☐ NORESPIRATOR MODEL / CANISTER TYPE North 7700 w/hygs☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBADESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Regulated Area; Transferring Asbestosinsulation from barrels to labeled bagsANALYTICAL REPORT REFERENCE # 20-3361
ANALYTICAL RESULTS: 4900.01<0.51

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FORM FILLED IN BY:

LDQ Eddie GuilkeyDO A 114855
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