

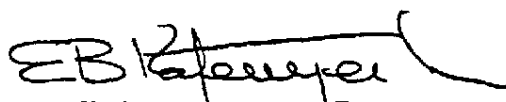
TO	J. W. Gressler	FIELD POINT OR DEPT. & BLDG. NO. Avon Lake G.C.	DATE YOUR LETTER
FROM	E. B. Katzenmeyer, Jr.	FIELD POINT OR DEPT. & BLDG. NO. Akron - D/0020, 5-H	DATE THIS LETTER 9-2-81
SUBJECT	OSHA Progress Report - May 1981		

This report describes a case where a maintenance mechanic was restricted from working in Estane for six months because of possible MDI sensitization. I think there are two things which should be considered here:

1. In view of the employee's past experience, he should probably be restricted permanently from working in Estane and on equipment which could be contaminated with MDI.
2. The job of maintenance mechanic should be scrutinized as it relates to the potential for exposure to isocyanate vapors. This probably won't be easy, but it is worthwhile to identify potentially high exposure situations in excess of the 0.2 ppm ceiling limit for MDI so that appropriate preventive steps can be taken. The ceiling limit is set to prevent sensitization in most individuals.

I'm not sure of the complete history of this case, but if the entire employment of this worker has been that of maintenance mechanic, then perhaps the review is in order so that future episodes might be prevented.

Let me know your thoughts on this.


E.B. Katzenmeyer, Jr.

v

cc: T.S. Bialke

26139001

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J. W. Gressler

ALGC - Health, Safety and Environmental Affairs

R. C. Lockemer

ALGC

7-13-81

OSHA Progress Report - May, 1981

JUL 20 1981

- restoration probably should be permanent*
1. The results of personnel and area monitoring conducted during the month are presented in the attached table.
 2. A maintenance mechanic was restricted from working in Estane for 6 months because of possible MDI sensitization. The individual evidenced symptoms of MDI exposure for the second time in as many months while working in B/433.
 3. Geon West has stopped using DOA, a suspect carcinogen, and switched to Sanicizer 97. *no feed grade intermediate*
 4. We met with representatives of Robert Ross and Sons, BFI, and Norton Construction to obtain their approval to stop monitoring their employees for VCM and acrylonitrile. With the exception of a few VCM readings at Robert Ross, exposure to VCM and AN has been below the OSHA action levels. Robert Ross has agreed to cessation of our AN monitoring. We will continue VCM monitoring until the exposure levels remain below the action level. BFI and Norton Construction are reviewing our proposal.
 5. Four employees in Hydrophilics, including a supervisor, experienced nausea and diarrhea while working in B/437. The only common denominator we could find was their work on a plugged extruder line. The men were working around the extruder for several hours in the presence of acrylate fumes. This is the first time anyone in Hydrophilics has reported these effects, even though similar situations have occurred in the past.

Neither Cleveland nor Akron were able to provide much help in identifying the cause of the nausea and diarrhea. Hydrophilics has modified their extruder line to prevent plugging in the future.

- 1447
did not know for
the first
time
monitoring*
6. Personnel monitoring of weighman in B/438 indicates that lead exposures are above the OSHA allowable of 50 mg/m³. In the past, weighman exposure to lead has been very low. Similarly, lead levels in the blood have also been low. The exact cause of the recent high readings is unknown. Compound West has begun routine cleaning of the screens at the weigh station and has closed off unused sections of the evacuation system to increase suction in the immediate vicinity of the scales. Hopefully, these measures will alleviate the problem. If not, additional employee protection, such as the ventilated helmets used at Pedricktown, may be needed.

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26139002

To: J. W. Gressler

7-13-81

7. Noise levels in excess of 90 dBA exist in B/465A. Signs have been posted at all entrances requiring hearing protection when working in the building.
8. Our lab and ALTC are working to resolve discrepancies between their respective MDI analytical techniques. Our lab's method has been modified and a series of experiments are being conducted to verify its accuracy.

R. C. Lockemer

RCL/bp

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SUMMARY OF
PERSONNEL MONITORING

MAY, 1981

Parameter	Allowable Conc. 8 hr. TWA	Month			Year-To-Date		
		No. of Samples	Avg. Conc.	No. Above Allowable	No. of Samples	Avg. Conc.	No. Above Allowable
VCM*	1 ppm						
Plant		186	1.00	27	761	0.63	80
B/432		-	-	-	-	-	-
B/438		-	-	-	1	0.44	-
B/449		1	0.50	-	5	0.82	1
451		26	1.38	8	114	0.75	21
B/452		31	0.25	2	130	0.20	2
B/454		3	0.14	-	22	0.29	1
B/455		8	0.16	-	39	0.22	1
B/457		3	0.13	-	21	0.16	-
B/458		-	-	-	7	0.02	-
B/459		7	0.62	1	19	0.42	1
B/461		29	1.64	9	110	1.45	29
B/463		15	0.27	1	73	0.30	5
B/464		28	2.89	6	146	1.00	19
B/465		2	0.08	-	3	0.20	-
B/466		33	0.09	-	69	0.09	-
B/468		-	-	-	1	0.05	-
B/471		-	-	-	-	-	-

* Includes all long term monitoring with and without tasks.

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SUMMARY OF
PERSONNEL MONITORING

May, 1981

Parameter	Allowable Conc. 8 hr. TWA	Month			Year-To-Date		
		No. of Samples	Avg. Conc.	No. Above Allowable	No. of Samples	Avg. Conc.	No. Above Allowable
Dust							
Total	10 mg/m ³	0	0	0	0	0	0
Respirable	5 mg/m ³	12	2.43	2	27	1.85	2
Noise	90 dBA	9	81	0	40	69	1
Metals							
Sb	500 μ g/m ³	0	0	0	36	46.2	2
Cd	200 μ g/m ³	0	0	0	36	0.34	0
Cr	500 μ g/m ³	0	0	0	15	1.22	0
Pb	50 μ g/m ³	1	999.0	1	38	63.55	4
Other							
HPA	0.5 ppm	0	0	0	6	0.03	0
DOP	5. mg/m ³	0	0	0	2	0.01	0
AN	1 ppm	0	0	0	7	< 2.	0

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OSHA COMPLIANCE - VCM

May, 1981

PERSONNEL MONITORING - % < 1 PPM

Area	Goals				Actual		
	1st Qtr. (%)	2nd Qtr. (%)	3rd Qtr. (%)	4th Qtr. (%)	Annual (%)	Month (No.) (%)	Year-to-Date (No.) (%)
B/451	78	78	78	78	78	26 69%	114 81
B/461	78	78	78	78	78	29 69%	110 73
B/463	95	95	95	95	95	15 93%	73 94
B/464	75	78	84	86	81	28 78	146 87

AREA MONITORING - % < 1 PPM

Area	Goals			Actual	
	Annual (%)	Month (%)	Year-to-Date (%)	Month (%)	Year-to-Date (%)
B/451	90	85	81	85	81
B/461	90	77	82	77	82
B/463	90	97	96	97	96
B/464	81	87	87	87	87

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