



DOW CHEMICAL U.S.A.

March 16, 1978

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PERSONNEL SAMPLING RESULTS FROM NIOSH SURVEY FOR ETHYLENE OXIDE EXPOSURE MARCH 10, 1978

Dow Industrial Hygiene obtained duplicate personnel samples of those taken by NIOSH on March 10. Each employee sampled by NIOSH was also given a Dow pump and sampler to carry; thus, exposure levels measured should be identical. Eight different employees were measured, each for a period of six (6) hours during the day shift. The six hour time weighted averages obtained by Dow are listed below. The exposure ranges are similar to the 1977 data presented NIOSH on March 9, 1978.

<u>Job Classification</u>	<u>6 Hr. TWA March 10</u>	<u>8 hr. TWA 1977 Level Given NIOSH</u>
Loading OT #1	5.67 ppm(v) E.O.	2.2 ppm(v) E.O.
Loading OT #2	0.59	2.2
Outside OT	0.53	<0.20
Outside OS	<0.25*	
Lab OTT	<0.25	0.3-1.2
S.O.T.	0.61	
S.S.	<0.25	
Engineer	<0.25	

*Minimum detectable level. ^{USE 0.9}

NIOSH data should be available about four weeks after sampling date.

Charlie

Charlie Halphen
Industrial Hygiene

cc

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TABLE 2
PERSONAL AIR MONITORING DATA
FOR ETHYLENE OXIDE
DOW, PLAQUEMINE, LOUISIANA
MARCH 10, 1978

<u>B TITLE</u>	<u>SAMPLE VOL. (L)</u>	<u>E.O., TWA (ppm)</u>
ift Supervisor	26.5	N.D.* 55
	79.5	N.D. 65
IT	78.0	0.36 50.7-57
gincer	59.5	N.D.
	81.0	0.89
ab OTT	29.4	1.13
ading OTT #1	42.0	>62.0**
ading OTT #2	78.0	0.43

N.D. - non-detectable, sample results reported below the analytical limit of 0.01 mg per tube.

ple result reported on back-up tube indicating probably sample breakthrough.

ave. (EXCEPT FOR >62.0) - 0.4

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