



DOW CHEMICAL U.S.A.

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A review of barge personnel monitoring data for this year (excluding benzene which was covered in an earlier report) has prompted the following recommendations:

1. With the exception of spills or leaks, 1983 data so far is acceptable.
2. MSA Comfo II respirator should be worn in any spills or leaks or when conditions are conducive to potential exposure (hot, humid summer days with no wind, etc.)
3. Respirator should be worn when odor is evident.
4. Respirator cartridges should be available at docks and changed every three months of after heavy exposure.

A comparison of odor thresholds and TLV's is shown below:

<u>Odor Threshold (PPM)</u>	<u>TLV (PPM)</u>
Chloroform - 200-300	10
Carbon Tet. - 70	5
Benzene - 5-20	10
EDC - 40-100	10
Methylene Chloride - 300	100
Perchloroethylene - 100	100
Toluene - 1-5	100

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8 HOUR TWA - PERSONNEL SAMPLES - BARGES

<u>METHYLENE CHLORIDE TLV-100</u>	<u>CHLOROFORM TLV-10</u>	<u>PERCHLOROETHYLENE TLV-50</u>	<u>ETHYLENE DICHLORIDE TLV-10</u>	<u>CARBON TETRACHLORIDE TLV-5</u>
36.11	0.58	0.32	0.39	1.55
34.78	1.01	0.17	8.22	0.07
45.16	6.01	1.24	10.20	0.17
0.12	5.62	0.57	8.05	0.78
	5.29		0.06	0.39
	4.41		2.80	0.44
	12.12		0.13	0.39
	11.66		0.06	0.43
	33.95		12.20	
	18.16		0.21	
			0.91	
			4.99	
			0.08	
			5.27	

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