

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 4005

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

## AIR CONTAMINANTS DATA

<u>Emission</u> *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
1	Scrubber System (Scrubber Nos. 1 and 2) 0.018	VOC CH <sub>2</sub> O  HCl COS	<0.01  <0.01 0.006	0.02 0.03  <0.01 0.001
2	Flare	VOC EO Naphthalene MeOH PO Xylene	4.69 1.37 <0.01 <0.01 0.73 <0.01	1.19 0.18 <0.01 <0.01 0.10 <0.01
3	Gas-Fired Boiler	NO <sub>x</sub>	0.63	2.76
4	Dept. 79 - Tank Farm	VOC		0.52
5	Dept. 79 - Fugitives (4) 4.65		VOC	1.06
6	Vent Transfer and Drumming 0.15 Operations (Dept. 79)		VOC	
7	Oil Heaters	VOC NO <sub>x</sub>	0.016 0.90	0.07 3.94
8	Dept. 41 - Tank Farm	VOC HCl		0.155 0.075

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
9	Fugitives and Transfer and Drumming Operations (4) <0.001	VOC HCl CH <sub>2</sub> O NH <sub>3</sub>	0.021 0.003 0.042 0.06	<0.001 0.003 0.085 0.26
10	Aeration Basin	CH <sub>2</sub> O	<0.01	0.03
11	Cooling Tower	VOC	0.36	1.58
12	Raw Material Tank (4)	TMA MC EPI	0.02 0.36 0.02	<0.01 1.28 0.02
13	Reaction Area (4)	TMA MC EPI	<0.01 0.01 <0.01	<0.01 0.04 <0.01
14	Scrubber No. 79S-1	TMA MC EPI	<0.01 4.33 0.04	<0.01 0.03 <0.01
15	Product Storage and Loading <0.01	TMA MC EPI	0.02 <0.01 <0.01	0.02 <0.01 <0.01
16	Scrubber System (Scrubbers 79S-2A and 2B)	VOC	1.18	0.83
17	Scrubber System	VOC	<0.01	0.01
18	Fugitives (4)	Total VOC EO Naphthalene	4.55 0.03 0.04	2.96 0.12 0.04

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3) lb/hr		TPY
		MeOH	0.42	0.42
		PO	0.03	0.02
		Xylene	0.11	0.13
		Acrylic Acid	0.08	0.05
		TDI	<0.01	0.01
		Non-HAP VOC	3.31	2.12
19	Tank 7946 and Rinse	VOC	<0.01	<0.01
20	Scrubber No. S7940	VOC	0.04	<0.01
21	Scrubber No. S7943	VOC	2.01	0.21
22	Scrubber No. S7944	VOC	0.03	<0.01
23	Tank 7942	VOC	<0.01	<0.01
24	Tank 7938	VOC	0.03	<0.01
25	Tank 7929	VOC	0.03	<0.01
26	Tank 7930	VOC	0.03	<0.01
27	Tank 7936	VOC	0.63	2.75
28	Tank 7935	VOC	0.58	0.01
29	Tank 7934	VOC	0.57	0.01
30	Tank 7945	VOC	<0.01	<0.01
31	Drum Loading	VOC	<0.01	<0.01
	0.02	Polymerized Polyol		0.12

32	Scrubber No. S7950	VOC	<0.01	<0.01
33	Resin Storage (Tank 7948) 0.16	VOC		0.98
34	Fatty Acid Storage (Tank 7950) <0.01	VOC		<0.01
35	PTBP Storage (Tank 7947) <0.01	VOC		<0.01
36	T-7925	Polyol	0.98	0.04

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- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in General Rule 101.1
  - CH<sub>2</sub>O - formaldehyde
  - HCl - hydrogen chloride
  - COS - carbonyl sulfide
  - EO - ethylene oxide
  - MeOH - methyl alcohol
  - PO - polypropylene oxide
  - NO<sub>x</sub> - total oxides of nitrogen

NH<sub>3</sub> - ammonia  
TMA - trimethylamine  
MC - methyl chloride  
EPI - epichlorohydrin  
TDI - toluene diisocyanate  
non-HAP VOC - non-hazardous air pollutant VOC  
total VOC - total volatile organic compound

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day \_\_\_\_\_ Days/week \_\_\_\_\_ Weeks/year \_\_\_\_\_ or Hrs/year \_\_\_\_\_  
8,760

Dated\_\_\_\_\_