

## 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

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3) lb/hr		TPY
1	Scrubber System (Scrubbers No. 1 and 2) 0.018	VOC CH <sub>2</sub> O  HCl COS	<0.01 0.006  <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 (14) 0.52		VOC	
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 (17) 0.155		VOC	

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Point No. (1)	Name (2)	Name (3) lb/hr		TPY
		HCl		0.075
9	Fugitives and Transfer and Drumming Operations (4) <0.001	VOC HCl	0.021	<0.001 0.003
		CH <sub>2</sub> O	0.042	0.085
		NH <sub>3</sub>	0.06	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	0.02	<0.01
		MC	0.36	1.28
		EPI	0.02	0.02
13	Reaction Area (4)	TMA	<0.01	<0.01
		MC	0.01	0.04
		EPI	<0.01	<0.01
14	Scrubber No. 79S-1	TMA	<0.01	<0.01
		MC	4.33	0.03
		EPI	0.04	<0.01
15	Product Storage and Loading <0.01	TMA		0.02
		MC	<0.01	<0.01
		EPI	<0.01	<0.01
16	Scrubber System (Scrubbers 79S-2A and 2B)	VOC	0.70	0.80
17	Scrubber System	VOC	<0.01	0.01
18	Fugitives (4)	VOC	4.54	2.92
		EO	0.03	0.12
		Naphthalene	0.04	0.04
		MeOH	0.42	0.42
		PO	0.03	0.02
		Xylene	0.11	0.13

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3) lb/hr</u>		<u>TPY</u>
		Acrylic Acid	0.08	0.05
19	Tank 7946 and Rinse	VOC	<0.01	<0.01
20	Scrubber No. 7940	VOC	0.04	<0.01
21	Scrubber No. 7943	VOC	2.01	0.21
22	Scrubber No. 7944	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
32	Scrubber	VOC	<0.01	<0.01
33	Resin Storage	VOC	0.98	0.16
34	Fatty Acid Storage	VOC	<0.01	<0.01
35	PTBP Storage	VOC	<0.01	<0.01

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr                      TPY</u>

(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.

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- (3) VOC - volatile organic compounds as defined in General Rule 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
HCl - hydrogen chloride  
COS - carbonyl sulfide  
CH<sub>2</sub>O - formaldehyde  
NH<sub>3</sub> - ammonia  
TMA - trimethylamine  
MC - methyl chloride  
EPI - epichlorohydrin  
PO - polypropylene oxide  
EO - ethylene oxide  
MeOH - methyl alcohol
- (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 \_\_\_\_\_