

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1862A

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 * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
1	Caustic Scrubber PVC1	Decanoyl Chloride 0.25 HCl VOC	0.013 0.055 0.18 0.20	<0.01  0.035 0.013
5	Phosgene Plant Flare	Cl <sub>2</sub> CO COCl <sub>2</sub> NO <sub>x</sub>	<0.001 3.34 <0.001 0.006	<0.001   0.025
11	North Boiler	CO NO <sub>x</sub> PM <sub>10</sub> SO <sub>2</sub> VOC	1.384 0.823 0.126 0.010 0.091	2.77 1.65 0.252 0.02
F13	North Chloro-Formates Area Fugitives (4)	VOC	0.56	1.38
14	Caustic Scrubber	VOC HCl	2.44 0.331	0.59 0.03
F15	Storage Tanks Fugitives (4)	VOC	0.18	<b>0.80</b>
<b>[VOC increase pursuant to the exemption identified as Diethylene Glycol, issued September 28, 1998]</b>				
F16	PRC Area Fugitives (4)	VOC	0.14	0.61
F17	PRC Storage Fugitives (4)	VOC	0.08	0.35

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			lb/hr	TPY
F19	New Products Area Fugitives (4) 3.617	VOC		0.83
		COCl <sub>2</sub>	<0.001	0.002
		HCl	0.001	0.007
F23	Phosgene Plant Fugitives (4) 0.21	Cl <sub>2</sub>		0.05
		CO	0.005	0.02
		COCl <sub>2</sub>	<0.001	0.002
		VOC	0.006	0.03
25	Reactor RX-3100 PM <sub>10</sub> Vent	PM <sub>10</sub>	0.03	0.016
26	Cyclo Vent	VOC	<0.001	<0.001
		PM <sub>10</sub> (Z-ASP)	0.02	0.045
F27	Dryer Fugitives (4)	PM <sub>10</sub> (Z-ASP)	<0.01	<0.01
28	Fitz Dryer Vent	VOC	0.06	0.031
		PM <sub>10</sub> (Z-ASP)	0.11	0.41
29	RX Charge Bag House	VOC	<0.01	<0.01
		PM <sub>10</sub> (Z-ASP)	<0.01	<0.01
30	Acid Storage Vent	HCl	<0.01	<0.01
F31	Z-ASP Reactor RX Fugitives (4) 1.92	VOC (Na-Z-ASP)		0.52
F36	BCF Storage Tank Fugitives (4) 0.15	VOC		0.035
F37	DMC Storage Tank Fugitives (4) 0.10	VOC		0.02
38	Centrifuge Hold Tank	VOC	0.008	<0.001

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			lb/hr	TPY
39	Centrifuge	VOC	0.09	0.022
40	Centrifuge Trans Tank	VOC	0.001	<0.001
41	DMO Loading	VOC	0.012	0.001
<b>[EPNs 42 and 43 deleted]</b>				
44	DDI Drumming	VOC	<0.01	<0.01
45	Reactor RX-3100 VOC Vent	VOC (Na-L-ASP)	<0.01	<0.01
46	Tank T-3111	VOC (Na-Z-ASP)	<0.01	<0.01
47	Tank T-3112	VOC (Na-Z-ASP)	<0.01	<0.01
48	Tank T-3113	VOC (Na-Z-ASP)	<0.01	<0.01
49	Tank T-3114	VOC (Na-Z-ASP)	<0.01	<0.01
F50	Tank Area Fugitives (4)	VOC (Na-Z-ASP)	<0.01	<0.01
51	Truck Loading Emissions	VOC (Na-Z-ASP)	<0.01	<0.01
52	South Boiler	CO	1.105	2.21
		NO <sub>x</sub>	1.19	2.38
		PM <sub>10</sub>	0.161	0.322
		SO <sub>2</sub>	0.019	0.038
		VOC	0.09	0.18
53	Thermal Oxidizer System Stack	Cl <sub>2</sub>	0.16	0.68
		CO	1.44	6.00
		COCl <sub>2</sub>	<b>0.309</b>	<b>1.209</b>
		HCl	<b>0.490</b>	<b>1.870</b>
		NO <sub>x</sub>	1.44	1.50

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		<b>VOC</b>	<b>0.724</b>	<b>1.262</b>
F54	Thermal Oxidizer System	COCl <sub>2</sub>	<0.001	<0.001
	Area Fugitives (4)	VOC	0.004	0.02
F55	Cold Vent Fugitives (4)	COCl <sub>2</sub>	<0.001	<0.001
	VOC	<0.01	0.03	
F56	LEP Fugitives (4)	VOC	0.40	1.75
57	Carbon Absorption Outlet	VOC	0.04	0.008
F58	LEP Loading Fugitives	VOC	0.523	0.273
F59	DCPI Plant Fugitives (4)	COCl <sub>2</sub>	<0.001	<0.001
		VOC	0.037	0.162
F60	DCPI Loading Collection Losses		VOC	0.01
	0.001			
61	Cooling Tower Emissions	VOC	0.02	0.07
62	Tar Loading	VOC	<0.001	<0.001
	[Allowable emissions subject to change]			
63	Truck Vent Scrubber Outlet	HCl	<0.01	<0.01
	[Emissions will probably be added to EPN 53]			
F64	Multipurpose Distillation Unit		VOC	0.021
	0.093			
	[Pursuant to Exemption Registration No. 39900]			
V-ETOH-1	Ethanol Tank Vent	Ethanol	5.71	0.28
V-MEOH-1	Methanol Tank Vent	Methanol	8.02	0.36

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
V-2EHOH-1	2EHOH Tank Vent	2-Ethyl Hexanol	0.04	<0.01
V-ISOBUT-1	IBOH Tank Vent	Isobutanol	1.78	0.03
V-SECBUT-1	SBOH Tank Vent (5)	Sec-Butyl Alcohol	3.00	0.06
<b>[V-DEG-1 deleted pursuant to the exemption identified as Diethylene Glycol, issued September 28, 1998]</b>				
V-BZOH-1	BZOH Tank Vent	Benzyl Alcohol	0.015	<0.01
F-TRK-LDG	Load Area Fugitives (4)	VOC	0.28	1.23
F-BZOH	BZOH Storage Tank Fugitives (4) 0.09	VOC		0.02
F-MOSF	Multi-Purpose Organic Synthesis 0.46	VOC		0.10
	Facility Fugitives (4)	COCl <sub>2</sub>	<0.01	<0.01
F-CO	CO Storage Area Fugitives (4) 0.66	CO		0.15
WIH-DISCH	Walk-In Hood Caustic Scrubber <0.001	Cl <sub>2</sub>		0.0001
		COCl <sub>2</sub>	0.002	0.001
		HCl	<0.001	0.001
		VOC	2.405	0.57

- (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) Cl<sub>2</sub> - chlorine

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	CO	- carbon monoxide		
	COCl <sub>2</sub>	- phosgene		
	HCl	- hydrochloric acid		
	Na-L-ASP	- sodium salt of carbobenzoxy L- aspartic acid		
	Na-Z-ASP	- sodium salt of carbobenzoxy aspartic acid		
	NO <sub>x</sub>	- total oxides of nitrogen		
	PM <sub>10</sub>	- particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.		
	PVCl	- pivaloyl chloride		
	SO <sub>2</sub>	- sulfur dioxide		
	VOC	- volatile organic compounds as defined in General Rule 101.1		
	Z-ASP	- carbobenzoxy aspartic acid		
(4)	Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.			
(5)	The EPN V-SECBUT-1 shall be deleted and the associated storage tank shall be scrapped no later than September 1, 1998.			

\* 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