Permit Number 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.

Emission	Source Air Co		Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	<u>lb/hr</u>	TPY**
1	Caustic Scrubber PVCI		Decanoyl Chloride 0.25 HCl	0.013 0.055 0.18	<0.01
			VOC	0.20	0.013
5	Phosgene Plant Flare	CO COCI:	Cl ₂ 0.8 ₂ < 0.001	<0.001 3.34 <0.001	<0.001
			NO_x	0.006	0.025
11	North Boiler		CO NO _x PM ₁₀	1.384 0.823 0.126	2.77 1.65 0.252
	VOC		SO ₂ 0.045	0.010 0.091	0.02
F13	North Chloro-Formates Area Fugitives (4)		VOC	0.56	1.38
14	Caustic Scrubber		VOC HCI	2.44 0.331	0.59 0.03
F15	Storage Tanks Fugitives (4)		VOC	0.18	0.80
F16	PRC Area Fugitives (4)		VOC	0.14	0.61
F17	PRC Storage Fugitives (4)		VOC	0.08	0.35
F19	New Products Area Fugitives	(4) HCl	VOC COCl ₂ 0.001	0.83 <0.001 0.007	3.617 0.002

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissior lb/hr	n Rates *
F23	Phosgene Plant Fugitives (4)	Cl ₂ CO COCl ₂ VOC	0.05 0.005 <0.001 0.006	0.21 0.02 0.002 0.002 0.03
25	Reactor RX-3100 PM ₁₀ Vent	PM ₁₀	0.03	0.016
26	Cyclo Vent	VOC PM ₁₀ (Z-ASP)	<0.001 0.02	<0.001 0.045
F27	Dryer Fugitives (4)	PM ₁₀ (Z-ASP)	<0.01	<0.01
28	Fitz Dryer Vent	VOC PM ₁₀ (Z-ASP)	0.06 0.11	0.031 0.41
29	RX Charge Bag House	VOC PM ₁₀ (Z-ASP)	<0.01 <0.01	<0.01 <0.01
F31	Z-ASP Reactor RX Fugitives (4) VOC (Na-Z-ASP)	0.52	1.92
F36	BCF Storage Tank Fugitives (4)) VOC	0.035	0.15
F37	DMC Storage Tank Fugitives (4) VOC	0.02	0.10
38	Centrifuge Hold Tank	VOC	0.008	<0.001
39	Centrifuge	VOC	0.09	0.022
40	Centrifuge Trans Tank	VOC	0.001	<0.001
41	DMO Loading	VOC	0.012	0.001
43	Water Scrubber	HCI	<0.01	<0.01
44 45	DDI Drumming Reactor RX-3100 VOC Vent	VOC VOC (Na-L-ASP)	<0.01 <0.01	<0.01 <0.01

Emission	Source	Air	Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
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 VOC		CO NO_x PM_{10} SO_2 0.09	1.105 1.19 0.161 0.019 0.18	2.21 2.38 0.322 0.038
53	Thermal Oxidizer System Stack		Cl ₂ CO COCl ₂ HCl NO _x VOC	0.16 1.44 0.3068 0.428 1.44 0.704	0.68 6.00 1.202 1.648 1.50 1.192
F54	Thermal Oxidizer System Area Fugitives (4)		COCI ₂ VOC	<0.001 0.004	<0.001 0.02
F55	Cold Vent Fugitives (4)	VOC	COCl ₂ <0.01	<0.001 0.03	<0.001
F56	LEP Fugitives (4)		VOC	0.40	1.75
57	Carbon Adsorption Outlet		VOC	0.04	0.008
F58	LEP Loading Fugitives		VOC	0.523	0.273

Emission	Source	Air Contaminant	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
F59	DCPI Plant Fugitives (4)	COCl₂ VOC	<0.001 0.037	<0.001 0.162
F60	DCPI Loading Collection Losses	s VOC	0.01	0.001
61	Cooling Tower Emissions	VOC	0.02	0.07
62	Tar Loading	VOC	<0.001	<0.001
F64	Multipurpose Distillation Unit	VOC	0.021	0.093
65	LPE Water Scrubber Outlet	VOC	0.02	0.001
V-ETOH-1	Ethanol Tank Vent	Ethanol	5.71	0.28
V-MEOH-1	Methanol Tank Vent	Methanol	8.02	0.36
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
V-DEG-1	DEG Tank Vent	Diethylene Glycol	<0.01	<0.01
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) VOC	0.02	0.09
F-MOSF	Multi-Purpose Organic Synthesi Facility Fugitives (4)	s VOC COCl ₂	0.10 <0.01	0.46 <0.01
F-CO	CO Storage Area Fugitives (4)	СО	0.15	0.66

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	r Contaminant <u>Emission Rat</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
WIH-DISCH	Walk-In Hood Caustic Scrubber	Cl ₂ COCl ₂ HCl VOC	0.0001 0.002 <0.001 2.405	<0.001 0.001 0.001 0.57

- (1) Emission point identification either specific equipment designation or emission point number (EPN) from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) Cl₂ chlorine

CO - carbon monoxide

COCl₂ - phosgene

HCl - hydrochloric acid

Na-L-ASP - sodium salt of carbobenzoxy L- aspartic acid Na-Z-ASP - sodium salt of carbobenzoxy aspartic acid

NO_x - total oxides of nitrogen

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

PVCl - pivaloyl chloride SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 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
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** Compliance with annual emission limits is based on a rolling 12-month period.

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

Dated <u>December 3, 2004</u>