EMISSION SOURCES - EMISSION CAPS
AND INDIVIDUAL EMISSION LIMITS

Flexible 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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
5	Phosgene Plant Flare	VOC		
14	Drumming Scrubber	VOC		
33	CDI Dryer Vent Discharge (Carbon Adsorption Unit)	VOC		
41	DMO Loading	VOC		
46	Rx-3000 Day Tank (T-3111)	VOC		
47	Rx-3000 Day Tank (T-3112)	VOC		
48	Rx-3000 Storage Tank (T-3113)	VOC		
49	Rx-3000 Storage Tank (T-3114)	VOC		
51	Rx-3000 Truck Loading	VOC		
52	South Boiler	VOC		
53	Thermal Oxidizer Stack	VOC		
67	MEOH Tank Vent (T-7)	VOC		
68	2-EHOH Tank Vent (T-9)	VOC		
69	SBOH Tank Vent (T-10)	VOC		
70	ETOH Tank Vent (T-3)	VOC		

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
71	North BOH Tank Vent (T-5)	VOC		
72	South BOH Tank Vent (T-6)	VOC		
73	Rx-3000 BOH Tank Vent	VOC		
F13	5,000 and 6,000 Area Fugitives (4)	VOC		
F15	Area Tank Fugitives (4)	VOC		
F17	250K Storage Fugitives (4)	VOC		
F19	New Products Area Fugitives (4)	VOC		
F23	Phosgene Plant Fugitives (4)	VOC		
F31	Rx-3000 Fugitives (4)	VOC		
F36	BCF Storage Tank Fugitives (T-3110)(4)	VOC		
F50	Rx-3000 Tank Area Fugitives (4)	VOC		
F54	Thermal Oxidizer Fugitives (4)	VOC		
F55	Cold Vent Fugitives (4)	VOC		
F-MOSF	Multipurpose Organic Synthesis	VOC		
F74	Truck Loading Area Fugitives (4)	VOC		
F75	Raw Material Storage Tank Area Fugitives (4)	VOC		
F76	Product Storage Tank Fugitives (4)	VOC		
F79	2-EHCL Storage Fugitives (4)	VOC		
F80	LPE Tank Farm Fugitives (4)	VOC		

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
		TOTAL VOC CAP	**30.67**	**12.48**
ATM	MSS Emissions (5)	VOC SUBCAP	**3.33**	**0.16**
5	Phosgene Plant Flare	HCl		
14	Drumming Scrubber	HCl		
51	Rx-3000 Truck Loading	HCl		
53	Thermal Oxidizer Stack	HCl		
F13	5000 and 6000 Area Fugitives (4)	HCl		
F19	New Products Area Fugitives (4)	HCl		
F55	Cold Vent Fugitives (4)	HCl		
		TOTAL HCl CAP	**8.45**	**4.39**
5	Phosgene Plant Flare	Cl_2		
53	Thermal Oxidizer Stack	Cl_2		
F19	New Products Area Fugitives (4)	Cl_2		
F23	Phosgene Plant Fugitives (4)	Cl_2		
		TOTAL Cl_2 CAP	**0.23**	**0.91**
5	Phosgene Plant Flare (5)	$COCl_2$		
53	Thermal Oxidizer Stack	$COCl_2$		
F13	5000 and 6000 Area Fugitives (4)	$COCl_2$		
F19	New Products Area Fugitives (4)	$COCl_2$		
F23	Phosgene Plant Fugitives (4)	$COCl_2$		

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
F31	Rx-3000 Fugitives (4)	$COCl_2$		
F50	Rx-3000 Tank Area Fugitives (4)	$COCl_2$		
F54	Thermal Oxidizer Fugitives (4)	$COCl_2$		
F55	Cold Vent Fugitives (4)	$COCl_2$		
F-MOSF	Multipurpose Organic Synthesis	$COCl_2$		
F74	Truck Loading Area Fugitives (4)	$COCl_2$		
		TOTAL $COCl_2$ CAP	**0.36**	**0.97**
53	Thermal Oxidizer Stack	HBr		
F-HBr	Fugitive Hydrogen Bromide (4)	HBr		
		TOTAL HBr CAP	**0.01**	**0.04**
53	Thermal Oxidizer Stack	CS_2		
F-19	New Products Area Fugitives (4)	CS_2		
		TOTAL CS_2 CAP	**0.04**	**0.02**
53	Thermal Oxidizer Stack	H_2S		
		TOTAL H_2S	**0.01**	**0.01**
5	Phosgene Plant Flare	CO		
52	South Boiler	CO		
53	Thermal Oxidizer Stack	CO		
F23	Phosgene Plant Fugitives (4)	CO		
		TOTAL CO CAP	**4.89**	**11.88**

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
5	Phosgene Plant Flare	NO_x		
52	South Boiler	NO_x		
53	Thermal Oxidizer Stack	NO_x		
		TOTAL NO_x CAP	**2.82**	**3.94**
5	Phosgene Plant Flare	SO_2		
52	South Boiler	SO_2		
		TOTAL SO_2 CAP	**0.04**	**0.08**
25	Rx-3100 Vent	PM_{10}		
29	Rx-3000 Handling System Vent	PM_{10}		
33	CDI Dryer Vent Discharge (Carbon Adsorption Unit)	PM_{10}		
52	South Boiler	PM_{10}		
63	Drumming Baghouse PM_{10} Vent	PM_{10}		
F27	Rx-3100 Charging Fugitives (4)	PM_{10}		
		TOTAL PM_{10} CAP	**0.71**	**2.19**

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
HCl - hydrogen chloride
Cl_2 - chlorine
$COCl_2$ - phosgene
HBr - hydrogen bromide
CS_2 - carbon disulfide
H_2S - hydrogen sulfide
CO - carbon monoxide
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM_{10} - particulate matter equal to or less than 10 microns in diameter
(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(5) VOC SUBCAP emissions are part of the TOTAL VOC CAP.

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated February 28, 2011