

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
5	Phosgene Plant Flare Stack	VOC	0.28	0.06
		HCl	7.51	1.50
		Cl ₂	0.01	0.01
		COCl ₂	0.01	0.01
		NO _x	0.19	0.06
		SO ₂	0.02	0.04
		CO	2.33	3.65
14	Drumming Scrubber Stack	VOC	2.74	0.63
		HCl	0.33	0.03
25	Rx3100 Vent	PM	0.38	1.63
		PM ₁₀	0.38	1.63
29	Rx3000 Solid handling System vent	PM	0.01	0.01
		PM ₁₀	0.01	0.01
33	CDI Dryer vent	VOC	0.79	0.42
		PM	0.10	0.01
		PM ₁₀	0.10	0.01
41	DMO Loading (5)	VOC	0.01	0.01
46	Rx3000 Day Tank Vent (T-3111)	VOC	0.01	0.01
47	Rx3000 Day Tank Vent (T-3112)	VOC	0.01	0.01
48	Rx3000 Storage Tank Vent (T-3113)	VOC	0.01	0.01

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49	Rx3000 Storage Tank vent (T-3114)	VOC	0.01	0.01
51	Rx3000 Truck Loading (5)	VOC	0.01	0.01
		HCl	0.001	0.001
52	South Boiler Stack	VOC	0.09	0.18
		NO _x	1.19	2.38
		SO ₂	0.02	0.04
		PM	0.16	0.32
		PM ₁₀	0.16	0.32
		CO	1.11	2.21
53	Thermal Oxidizer Stack	VOC	5.81	5.40
		HCl	0.57	2.82
		Cl ₂	0.16	0.68
		COCl ₂	0.31	0.90
		NO _x	1.44	1.50
		CO	1.44	6.00
		CS ₂	0.01	0.01
		H ₂ S	0.01	0.01
63	Drumming Baghouse PM/PM ₁₀ Vent	PM	0.05	0.21
		PM ₁₀	0.05	0.21
67	MeOH Tank Vent (T-7)	VOC	8.02	0.36
68	2-EHOH Tank Vent (T-9)	VOC	0.04	0.01
69	SBOH Tank Vent (T-10)	VOC	3.00	0.06
70	ETOH Tank Vent (T-3)	VOC	5.71	0.28
71	North BOH Tank Vent	VOC	0.01	0.01

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	(T-5)			
72	South BOH Tank Vent (T-6)	VOC	0.01	0.01
73	Rx-3000 BOH Tank Vent	VOC	0.02	0.01
F-13	5000 and 6000 Area Fugitives (5)	VOC	0.16	0.69
		HCl	0.01	0.01
		COCl ₂	0.002	0.007
F-15	Area Tank Fugitives/CCF Tank (5)	VOC	0.19	0.32
F-17	250K Storage Fugitives (5)	VOC	0.02	0.03
F-19	New Products Area Fugitives (5)	VOC	0.44	1.86
		HCl	0.01	0.01
		Cl ₂	<0.01	<0.01
		COCl ₂	0.003	0.012
		CS ₂	0.03	0.01
F-23	Phosgene Plant Fugitives (5)	VOC	0.06	0.22
		Cl ₂	0.05	0.21
		COCl ₂	0.001	0.003
		CO	0.01	0.02
F-27	Rx-3100 Charging Fugitives (5)	PM	0.01	0.01
		PM ₁₀	0.01	0.01

F-31	Rx-3000 Reactor Fugitives (5)	VOC	0.03	0.11
		COCl ₂	0.001	0.001
F-36	BCF Storage Tank Fugitives (5)	VOC	0.01	0.04

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F-50	Rx-3000 Tank Area Fugitives (5)	VOC	0.01	0.01
		COCl ₂	0.001	0.001
F-54	Thermal Oxidizer Fugitives (5)	VOC	0.04	0.15
		COCl ₂	0.01	0.01
F-55	Cold Vent Fugitives (5)	VOC	0.04	0.11
		HCl	0.01	0.01
		COCl ₂	0.001	0.001
F-74	Truck Loading Area Fugitives (5)	VOC	2.55	0.06
		COCl ₂	0.001	0.001
F-75	Raw Material Storage Tank Area (5)	VOC	0.03	0.13
F-76	Product Storage Tank Fugitives (5)	VOC	0.11	0.45
F-79	2-EHCL Storage Fugitives (5)	VOC	0.01	0.04
F-MOSF	Multipurpose Organic Synthesis	VOC	0.30	0.46
		COCl ₂	0.01	0.01
F-HCl	Acid Plant Equipment Fugitives (5)	HCl	0.70	3.03
ATM	MSS Emissions (5)	VOC	3.33	0.16

- (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 Title 30 Texas Administrative Code § 101.1
- HCl - hydrogen chloride
- Cl₂ - chlorine
- COCl₂ - phosgene
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented

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PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
CS ₂	- carbon disulfide
H ₂ S	- hydrogen sulfide

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: August 11, 2011