

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 84719

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**
EP1-1	Exhaust Gas Purification System 1 0.15	VOC		0.09
		HF	0.01	0.01
		F ₂	0.01	0.01
		Br ₂	0.01	0.01
		Non-VOC Organics	0.47	1.01
EP1-3	Hydrolysis Vacuum Pump	HF	0.01	0.01
EP1-4	Reduction Reactor	VOC	0.03	0.03
EP1-5A	Alcoholysis Vacuum Pump 1	HF	0.01	0.01
EP1-5B	Alcoholysis Vacuum Pump 2	HF	0.01	0.01
EP1-6	Washing Reactor 1	VOC	0.01	0.01
EP1-7	Washing Reactor 2	VOC	0.01	0.01
FH1-3	Building 1 Anhydride Flasks	VOC	0.01	0.01
FUG-1	Building 1 FUG Emissions	VOC	0.09	0.38
		HF	0.02	0.07
		F ₂	0.02	0.08
		Br ₂	0.01	0.01
EP2-1	Exhaust Gas Purification System 2 0.14	VOC		0.05
		HF	0.01	0.01
		F ₂	0.01	0.01
		Non-VOC Organics	0.47	1.01

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
EP2-2	Reactor/Distillation Unit 1	VOC	0.06	0.01
EP2-3	Reactor/Distillation Unit 1 Hot Oil System	VOC	0.01	0.01
EP2-4	Reactor/Distillation Unit 2	Non-VOC Organics	0.25	0.01
EP2-5	Reactor/Distillation Unit 2 Hot Oil System	VOC	0.01	0.01
EP2-6	Solvent Washing Unit	VOC	0.02	0.01
FH2-3	Building 2 Flasks	VOC	0.01	0.01
FUG-2	Building 2 Fugitive Emissions	VOC	0.13	0.57
		HF	0.02	0.08
		F ₂	0.02	0.09
		Non-VOC Organics	0.05	0.20

(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 area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

HF - hydrogen fluoride

F₂ - fluorine

Br₂ - bromine

Non-VOC Organics - acetone and fluorinated alkanes

* 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

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

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

Dated September 22, 2009