

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19997

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**
99V8201	Tank V-8201 - Ethylene Glycol	VOC	<0.01	<0.01
99V8308	Tank V-8308 - IBAP	VOC	0.10	<0.01
99V8301	Tank V-8301 - IBB	VOC	3.3	0.17
99V8408	Tank V-8408 - IBAP	VOC	<0.01	<0.01
99V8409	Tank V-8409 - IBAP	VOC	<0.01	<0.01
99V8507	V-8507 - Hydrogenation Vent	VOC	0.94	0.37
99V8508	Tank V-8508 - IBPE Surge Tank	VOC	0.12	0.03
99V8600	Tank V-8600 - IBPE Preheat Tank	VOC	<0.01	<0.01
99V8797	Tank V-8797 - IBU Rework Vessel	VOC	0.03	<0.01
99MN8766	MN8766 - Packaging Emissions	PM	0.03	0.10
		VOC	3.9	6.3
99MN8900	MN8900 - Flare	CO	32.3	23.6
		HCl	1.4	
		HF	0.21	0.15
		NO _x	2.9	2.1
		VOC	19.5	14.3
99T8412	T-8412 - Vacuum Jet Scrubber	HF	0.01	<0.01
		VOC	<0.01	<0.01

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			lb/hr	TPY**
99IBUFUG	Ibuprofen Unit Fugitive Emissions (4)	AcF	0.02	0.07
		CO	0.19	0.84
		HCl0.08	0.37	
		HF	0.29	1.25
		VOC (excluding AcF)	2.09	9.22
99COSKID	Air Products CO Skid Fugitives (4)	CO	1.9	8.5
99IBPELOAD	IBPE Loading and Unloading	VOC	0.18	<0.01
99IBAPLOAD	IBAP Loading and Unloading	VOC	0.21	<0.01
99IBBLOAD	IBB Loading and Unloading	VOC	0.49	<0.01
99CRUDELD	Crude IBU Loading	HCl<0.01	<0.01	
		VOC	0.03	0.01

(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) AcF - acetyl fluoride (CH₃COF)

CO - carbon monoxide

HCl - hydrogen chloride

HF - hydrogen fluoride

IBAP - isobutyl acetophenone

IBB - isobutyl benzene

IBPE - isobutyl phenyl ethanol

IBU - ibuprofen

NO_x - total oxides of nitrogen

PM - particulate matter, suspended in the atmosphere, including PM₁₀

VOC - volatile organic compounds as defined in 30 Texas Administrative Code § 101.1

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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* 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

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

Dated May 28, 2002