

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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)(3)	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	0.01	<0.01
99V8301	Tank V-8301 - IBB	VOC	2.48	0.12
99V8408	Tank V-8408 - IBAP	VOC	<0.01	<0.01
99V8409	Tank V-8409 - IBAP	VOC	<0.01	<0.01
99V8507	Hydrogenation Vent	VOC	0.53	0.95
99V8508	Tank V-8508 - IBPE Surge	VOC	0.14	0.05
99V8600	Tank V-8600 - IBPE Preheat	VOC	0.17	0.06
99V8797	Tank V-8797 - IBU Rework	VOC	<0.01	<0.01
99MB8760	Packaging Emissions	hexane	1.03	4.50
		PM	0.09	0.13
99MN8900	Flare	VOC	2.44	10.71
		NO <sub>x</sub>	0.23	1.02
		CO	2.84	12.43
		HCl	0.07	0.33
		HF	0.04	0.16
99ACYLFUG	Acylation Fugitives (4)	VOC	0.20	0.83
		HF	0.03	0.13
99HYDROFUG	Hydrogenation Fugitives (4)	VOC	0.07	0.29

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
99CARBOFUG	Carbonylation Fugitives (4)	VOC	<0.01	<0.01
		CO	0.10	0.43
		HCl	0.04	0.17
99PURIFUG	Purification Fugitives (4)	VOC	0.33	1.42
		HCl	<0.01	<0.01
99UTILFUG	Fugitives (4)	VOC	0.16	0.70
		HCl	0.03	0.14
		sulfuric acid	<0.01	<0.01
99T8412	Vacuum Jet Scrubber	VOC	0.04	0.09
WWTP	Wastewater Treatment Plant - Fugitives	VOC	1.02	4.09
		HF	0.01	0.04
99COSKID	CO Skid	CO	0.91	4.00

- (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 30 Texas Administrative Code Section 101.1  
 IBAP - isobutyl acetophenone  
 IBB - isobutyl benzene  
 IBPE - isobutyl phenyl ethanol  
 IBU - ibuprofen  
 PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
 NO<sub>x</sub> - total oxides of nitrogen  
 CO - carbon monoxide  
 HCl - hydrogen chloride  
 HF - hydrogen fluoride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

8,760 Hrs/day

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

Dated\_\_\_\_\_