

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 22110

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**
130T-F402	Wastewater Tank	VOC	0.09	0.01
130T-F604	PTBC Tank	PTBC	0.01	0.01
130T-F1201	PTBC Tank	PTBC	0.01	0.01
130T-F622	Acetonitrile Tank	ACN	5.82	0.09
130F	Isoprene Unit 821 Process Fugitives (4)	VOC	20.30	88.90
130FL-Q502	Utilities Flare	VOC	48.07	49.76
		NO <sub>x</sub>	3.42	4.08
		CO	15.96	19.54
130WF	Wastewater Losses (5)	VOC	-	-
		Acetone	-	-
116F-4	Refrigeration Compressor	VOC	0.49	2.14
116CT-4	Cooling Tower	VOC	0.67	2.94
330F	Natsyn Unit 829 Process Fugitives (4)	VOC	28.37	124.26
		TiCl <sub>4</sub>	0.05	0.27
		HCl	0.01	0.01
370FL-Q503	Wing Chemical Flare	VOC	4.36	7.41
		NO <sub>x</sub>	0.23	0.39
		CO	1.66	2.80
		SO <sub>2</sub> 0.01	0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
336F	Finishing Building Fugitives	VOC	108.69	189.50
330WF	Natsyn Wastewater	VOC	1.57	6.86
330T-F116	F116 Oil Storage Tank	VOC	0.04	0.16
330T-F117	F117 TIPA Tank	VOC	0.01	0.01
330T-F201	F201 TIPA/C <sub>6</sub> Tank	VOC	8.11	0.44
330T-F207	F207 TIBA Tank	VOC	2.78	0.81
330T-F118	F118 Catalyst Tank	HCl	0.28	0.01
330T-F203	F203 TIBA/C <sub>6</sub> Tank	VOC	2.72	0.26
330T-F205	F205 Catalyst Makeup Tank	VOC	0.34	0.56
		HCl	0.01	0.01
330T-F206	F206 Catalyst Charge Tank	VOC	5.79	0.56
		HCl	0.03	0.01
330T-F208	F208 Warm Catalyst Tank	VOC	8.05	0.77
		HCl	0.04	0.01

(1) Emission point identification - either specific equipment designation or emission point number (EPN) 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

PTBC - p-tert-butylcatechol

ACN - acetonitrile

NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

TiCl<sub>4</sub> - titanium tetrachloride

HCl - hydrogen chloride

SO<sub>2</sub> - sulfur dioxide

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- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) This EPN represents emissions from the grandfathered wastewater collection system which are attributable to the Isoprene Unit. The Isoprene Unit discharges 28.14 tons per year (tpy) VOC and 8.90 tpy acetone into the wastewater collection system.

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

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

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

Date September 22, 2005