

# 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, 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 (8)
130T-F402	Maintenance Wastewater Tank	VOC	0.09	0.02
130T-F1201	PTBC Tank	PTBC	0.01	0.01
130T-F622	Acetonitrile Tank	ACN	9.90	0.20
130F	Isoprene Unit 821 Process Fugitives (4)	VOC	28.59	125.24
130F	Isoprene Unit 821 Process Fugitives (4) (5)	VOC	0.04	0.19
130FL-Q502	Utilities Flare	VOC	61.10	57.95
		NO <sub>x</sub>	4.04	4.56
		CO	20.36	22.84
		SO <sub>2</sub>	0.02	0.02
		HCl	0.07	0.01
130FL-Q502	Utilities Flare (7)	VOC	55.54	50.39
		NO <sub>x</sub>	4.04	4.56
		CO	18.58	19.98
		SO <sub>2</sub>	0.01	0.01
116F-4	Refrigeration Compressor	VOC	0.49	2.14
116CT-821	Cooling Tower	VOC	0.67	2.94
330F	Natsyn Unit 829 Process Fugitives (4)	VOC	23.85	104.32
		TiCl <sub>4</sub>	0.05	0.22
		HCl	0.01	0.01
370FL-Q503	Wing Chemical Flare (7)	VOC	5.56	7.56
		NO <sub>x</sub>	0.25	0.40
		CO	1.78	2.86
		SO <sub>2</sub>	0.01	0.01
		HCl	0.07	0.01
336F	Finishing Building Fugitives (4) (6)	VOC	108.69	223.33
330WF	Natsyn Wastewater	VOC	1.57	6.86
330T-F116	F116 Oil Storage Tank	VOC	0.09	0.01
330T-F117	F117 TIPA Tank	VOC	0.01	0.01

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4H-203	F201/F207 Vent	VOC	23.01	0.66
330T-F118	F118 Catalyst Tank	HCl	0.91	0.02
116CT-MAIN	Cooling Tower	VOC	1.78	7.80
130WF	Isoprene Wastewater Fugitives	Acetone	0.64	2.58
		VOC	3.30	7.36

- (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
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Isoprene Unit 821 Process Fugitives (EPN 130F) are not authorized by Permit Number 22110. These emissions are only being referenced and are authorized by Permits by Rule Registration Number 77192, issued in December 2005.
- (6) Natsyn Unit Finishing Building Fugitives (EPN 336F) include fugitive emissions from the finishing operations inside the finishing building and tanks 330T-405A and 330T-405B.
- (7) Emissions only valid until Qualified Facilities change between Wing Chemical Flare (370FL-Q503) and Utilities Flare (130FL-Q502), approved in December 2005, can be completed or July 1, 2006, whichever comes first. Upon completion, emissions from the Wing Chemical Flare (EPN: 370FL-Q503) will be zero.
- (8) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

Date: June 27, 2017