

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 21832

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**
011ES3	F-1 Furnace Stack	CO	0.30	1.33
		NO _x	0.36	1.58
		PM ₁₀	0.03	0.12
		SO ₂	0.02	0.10
		VOC	0.02	0.09
011ES4	F-2 Furnace Stack	CO	0.15	0.66
		NO _x	0.18	0.79
		PM ₁₀	0.01	0.06
		SO ₂	0.01	0.05
		VOC	0.01	0.04
011ES5	F-3 Furnace Stack	CO	0.76	3.31
		NO _x	0.90	3.94
		PM ₁₀	0.07	0.30
		SO ₂	0.05	0.24
		VOC	0.05	0.22
011FL1	Flare	Acetone	0.08	0.35
		CO	4.34	19.00
		NO _x	0.92	4.04
		SO ₂	0.04	0.17
		VOC	0.04	0.17
011MNT1	Start-up, Shutdown, and Maintenance Emissions (MIPK process)	Acetone	23.70	0.55
		VOC	35.56	1.00

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
	TPY**		lb/hr	
	Start-up, Shutdown, and Maintenance Emissions (Isobutyronitrile Process)	Acetone NH ₃ VOC	80.69 0.96 25.58	1.94 0.38 7.76
	Start-up, Shutdown, and Maintenance Emissions (N-butyronitrile process)	Acetone NH ₃ VOC	80.69 0.96 19.98	1.69 0.38 7.59
011SB2	Scrubber Vent (MIPK process) (Isobutyronitrile Process) (N-butyronitrile Process)	Acetone VOC VOC VOC	4.00 2.00 0.30 0.10	0.05 0.02 1.31 0.44
011ST1	Tank Vent (MIPK Process) (Isobutyronitrile Process) (N-butyronitrile Process)	VOC VOC VOC	2.60 3.72 2.45	0.05 0.04 0.02
011ST2	Tank Vent	Acetone VOC	2.80 8.99	0.04 0.12
011ST5	Tank Vent	VOC	8.92	0.20
011T16	Tank Vent (MIPK Process) (Isobutyronitrile Process) (N-butyronitrile Process)	VOC VOC VOC	3.15 2.08 1.39	0.01 0.01 0.01
011T22	Tank Vent (MIPK Process) (Isobutyronitrile Process) (N-butyronitrile Process)	VOC VOC VOC	2.98 2.37 1.44	0.21 0.26 0.15
011T23	Tank Vent (MIPK Process) (Isobutyronitrile Process) (N-butyronitrile Process)	VOC VOC VOC	2.98 2.37 1.44	0.21 0.25 0.15

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011T24	Tank Vent (MIPK Process)	VOC	2.98	0.03
	(Isobutyronitrile Process)	VOC	2.37	0.03
	(N-butyronitrile Process)	VOC	1.73	0.02
015LR1	Loading Spot	VOC	14.36	0.72
015LT76	Loading Spot	Acetone	4.09	0.13
		VOC 5.13	0.59	
015LT77	Loading Vent	NH ₃	19.07	0.90
048T56	Tank Vent	VOC	1.27	0.15
048T59	Tank Vent	Acetone	1.37	0.06
		VOC 32.10	1.25	
048T84	Tank Vent	VOC	0.50	0.02
048T205	Tank Vent	Acetone	5.19	3.22
048T206	Tank Vent	Acetone	5.19	3.22
049T200	Tank Vent	VOC	5.96	1.30
049T201	Tank Vent	VOC	5.96	1.30
058LD1	Loading Spot	VOC	1.88	0.59
093LR1	Loading Spot	VOC	8.56	0.79
093T10	Tank Vent	VOC	0.14	0.07
093T11	Tank Vent	VOC	2.88	0.88

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Emission Point No. (1)	Source Name (2) TPY**	Air Contaminant Name (3)	Emission Rates * lb/hr	
098LD1	Loading Operations	VOC	1.57	0.79
098LT90	Loading Spot	VOC	4.28	0.79
098T13	Tank Vent	VOC	0.20	0.13
F011FGW	Wastewater Emissions	VOC	0.62	2.76
	(MIPK Process)			
	(Isobutyronitrile Process)	NH ₃	0.14	0.62
		VOC	0.77	3.35
	(N-butyronitrile Process)	NH ₃	0.14	0.62
		VOC	0.33	1.44
F011FG3	Process Fugitives (4)	Acetone	0.58	2.55
	(MIPK Process)	VOC	2.33	10.19
	(Isobutyronitrile Process and)	NH ₃	0.03	0.15
	(N-butyronitrile Process)	VOC	2.92	12.79
F048FG1	Process Fugitives (4)	Acetone	0.16	0.70
		VOC	0.48	2.11
F098FG13	Process Fugitives (4)	VOC	0.17	0.74

(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.

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- (3) CO - carbon monoxide
NO_x - total oxides of nitrogen
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter.
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NH₃ - ammonia
- (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:

Hrs/day 24 Days/week 7 Weeks/year 52

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