

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20621

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 **
SCR-900V	Scrubber (6)	VOC	0.19	0.02
T901V	DMA Tank	DMA	0.01	0.01
T904V	Ester Tank	VOC	1.79	0.10
T906V	MeOH Tank 906 (5)	MeOH	8.26	0.11
T908V	Acid Tank	H ₂ SO ₄	0.01	0.01
T912V	Product Tank	VOC	0.21	0.01
T913V	MeOH Feed Tank	MeOH	0.21	0.01
T914V	MeOH Tank 914 (5)	MeOH	8.25	0.28
T916V	MeOH Store Tank	MeOH	0.73	0.08
T-17V	Caustic Tank	KOH	0.10	0.01
FU-1	DMA Unload/Storage Process Fugitives (4)	DMA	0.19	0.31
FU-2	Product Load/Unload Process Fugitives (4)(6)	VOC	0.51	0.16

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			lb/hr	TPY **
FU-BF3	BF ₃ Component Process Fugitives (4)	VOC	0.16	0.23
FU-900C	CADMA Process Fugitives (4)	VOC	0.18	0.77
FU-900D	Process Area/Storage Process Fugitives (4)	DMA	0.05	0.21
FU-900M	Process Area/Storage Process Fugitives (4)(6)	MeOH	0.12	0.52
T-41V	Tank T-41V	VOC	0.04	0.01
R900RL-1	MeOH/Glycerol (5) Railcar Loading	VOC	5.40	0.28
R900TL-1	Triazine Truck Loading	VOC	2.47	0.07
R900TL-2	CADMA Truck Loading (5)	VOC	0.02	0.01
FU-900T	Triazine Process Fugitives(4)	VOC	0.09	0.14
T-36U	TMAC Storage	MeCl	1.71	0.14
R-3V	Scrubber V-003	VOC	4.82	0.35
FU-R003	Reactor R-003 Component Process Fugitives (4)	VOC	0.21	0.94
FU-RRT	Process Fugitives(4)	TMA	0.01	0.01
FU-T4	Tank T-94 Process Fugitives (4)	MeCl	0.09	0.03

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			lb/hr	TPY **
FU-R001	Reactor 003 Area Process Fugitives(4)	VOC	0.08	0.33
FU-T38	TMA Component Process Fugitives (4)(5)	VOC	0.01	0.01
FU-V103	Scrubber V-103 Area Process Fugitives (4)	VOC	0.01	0.02
SCR-103	Acid Scrubber Vent	VOC	0.33	0.02
SS-1	Scrubber SS-1 (7)	MeCl	0.01	0.01

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) DMA - dimethylamine
H₂SO₄ - sulfuric acid
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
MeOH - methanol
KOH - potassium hydroxide
TMAC - tetra-methyl-ammonium chloride
TMA - trimethylamine
MeCl - methyl chloride
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Emission rates were previously authorized under Permit-by-Rule Registration (PBR) Number 54928, 48311, or 51359.
- (6) Emission rates include all emissions at the site authorized by PBR Number 75995.
- (7) Emission rate include all emissions from the TMAC truck loading and TMAC drum loading operations. The emissions are routed to a centralized scrubber EPN SS-1 authorized under Permit No. 56649.

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- * 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.

Dated: March 23, 2011