

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 53313

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
49T149ST	Acetic Acid Scrubber T-149	HAc	4.35	2.63
49V578ST	Acetic Acid Scavenger Tank	HAc	0.53	0.01
49V598ST	Personnel Exposure Control Device	VOC	1.19	0.04
		Iodide	0.06	0.01
		Iodine	0.16	0.01
		methyl acetate	0.14	0.01
49V604ST	Steam Condensate Tank	VOC	0.01	0.01
49V1049ST	Acetic Acid Storage Tank	VOC	0.56	0.33
49V1195ST	Methyl Acetate Storage Tank	VOC	0.32	0.72
		methyl acetate	1.38	4.93
49MN138ST	Acetic Acid Unit Flare (5)	VOC	16.76	7.89
		NO _x	6.28	4.95
		CO	199.05	200.13
		SO ₂	0.15	0.21
		methyl acetate	5.17	0.03
		I ₂	14.53	5.52
		HI	14.65	5.56
49MN138ST	Acetic Acid Unit Flare	VOC	26.71	7.15
		NO _x	7.77	3.06
		CO	240.92	88.42
		SO ₂	0.15	0.31
		methyl acetate	5.36	0.02
		I ₂	12.73	1.93
		HI	12.83	1.94

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			lb/hr	TPY
49HACCLDFUG	Acetic Acid Railcar/Truck Uncollected Loading Losses	VOC	0.69	0.11
49HACFUG	Acetic Acid Unit Equipment Fugitives (4,5)	VOC	7.21	31.54
		CO	1.21	5.28
		methyl acetate	2.24	9.81
49HACFUG	Acetic Acid Unit Equipment Fugitives (4)	VOC	2.73	11.96
		CO	0.49	2.13
		methyl acetate	0.78	3.43
49ANALFUG	Analyzer Vents	VOC	0.01	0.01
		CO	0.01	0.01
49MT7FUG	Cooling Tower (4)	VOC	2.94	12.88
49T171ST	Methyl Acetate Recovery Tower	VOC	0.60	2.62
		methyl acetate	2.58	11.29
49V537ST	Methyl Acetate Storage Tank	VOC	0.34	1.08
		methyl acetate	1.67	6.88
55T43ST	Methanol Storage Tank Scrubber T-43	VOC	10.69	4.44
47MT20	Stand Alone Cooling Tower (4)	VOC	0.50	2.21
		PM/PM ₁₀ /PM _{2.5}	0.15	0.66
49MN1621	Thermal Oxidizer	NOx	13.18	11.86
		CO	16.68	15.52
		VOC	0.12	0.31
		SO ₂	0.09	0.01
		PM/PM ₁₀ /PM _{2.5}	2.46	4.74
		I ₂	7.48	11.07
		HI	7.53	11.16

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

- (1) Emission point identification - either 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.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - CO - carbon monoxide
 - HAc - acetic acid
 - I₂ - Iodine
 - HI - Hydrogen Iodide
- (4) Emission rate is an estimate and is enforceable through compliance with the applicable Special Condition(s) and permit application representations.
- (5) Effective prior to startup of increased capacity represented in the application dated March 10, 2010.

* Emission rates are based on the following maximum operating schedule: 8,760 hours per year.

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

Dated January 24, 2011