

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3619

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
1	Oxidizer Scrubber	Diglyme	<0.01	<0.01
		Pyridine	0.55	1.56
		NH <sub>3</sub>	13.10	20.56
2	Decomposer Scrubber	Diglyme	<0.01	<0.01
		Pyridine	0.96	2.45
		NH <sub>3</sub>	1.29	3.22
3 ONLY	Centrifuge Off-Gas Scrubber		MAINTENANCE/EMERGENCY USE	
5 ONLY	Process Vents Scrubber		MAINTENANCE/EMERGENCY USE	
6 ONLY	Dimerizer Scrubber		MAINTENANCE/EMERGENCY USE	
7 ONLY	Sodium Dissolver Scrubber		MAINTENANCE/EMERGENCY USE	
10	Sodium Transfer System	Sodium	<0.01	<0.01
11	Vacuum Still No. 2 Pump Exhaust	Diglyme	<0.01	<0.10
12A	Absorber 502A	MeCl	0.22	0.96
12B	Absorber 502B	MeCl	0.22	0.96
13	Vent/Return Pot on BP Hold Tanks	Bipyridyl	0.438	1.75

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17	Dryer	MeCl <sub>2</sub>	<0.01	<0.01
18	Decon. Scrubber	NH <sub>3</sub>	<0.01	<0.01
		Pyridine	<0.01	<0.01
19A	Formulation Vessel A	MeCl	51.2	21.4
		MeOH	10.9	4.53

Emission Name (3)	Source lb/hr TPY	Air Contaminant	Emission Rates*	Point No. (1)	Name (2)
19B	Formulation Vessel B	MeCl	51.2	21.4	
		MeOH	10.9	4.53	
50	Two Steam Boilers (common stack)	PM <sub>10</sub>	0.28	1.22	
		VOC	0.16	0.69	
		NO <sub>x</sub>	7.84	34.4	
		SO <sub>2</sub>	0.04	0.15	
		CO	1.96	8.59	
ONLY 51	Emergency Generator	MAINTENANCE/EMERGENCY USE			
52	Product Tank 28-0932-1	Paraquat	<0.01	<0.01	
53	Product Tank 28-0932-2	Paraquat	<0.01	<0.01	
54	Product Tank 28-0932-3	Paraquat	<0.01	<0.01	
55	Product Tank 28-0933-1	Paraquat	<0.01	<0.01	
56	Product Tank 28-0933-2	Paraquat	<0.01	<0.01	
71	Expansion Tank	MeCl <sub>2</sub>	0.04	0.20	
ONLY 74	Wet Vents Scrubber	MAINTENANCE/EMERGENCY USE			
ONLY 75	Dry Vents Scrubber	MAINTENANCE/EMERGENCY USE			
76	Bipyridyl Scrubber	Bipyridyl	<0.01	0.02	

80	Dust Filter	PM <sub>10</sub>	<0.01	<0.01
81	Carbon Bed	Valeric Acid	<0.01	<0.01
86	Cooling Tower (4)	VOC	0.59	2.58
87	Product Tank 28-0960	Paraquat	<0.01	<0.01
88	Product Tank 28-0961	Paraquat	<0.01	<0.01
AREA-1	Fugitives (4)	NH <sub>3</sub>	0.11	0.48
		Pyridine	0.61	2.68
		Digylme	1.32	5.78
		MeCl	0.36	1.58
		MeCl <sub>2</sub>	0.63	2.79

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- (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)
  - NH<sub>3</sub> - ammonia
  - MeCl - methyl chloride
  - MeCl<sub>2</sub> - methylene chloride
  - MeOH - methanol
  - PM<sub>10</sub> - particulate matter less than 10 microns
  - VOC - volatile organic compounds as defined in General Rule 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - CO - carbon monoxide
- (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\_\_\_\_Days/week\_\_\_\_Weeks/year\_\_\_\_or Hrs/year 8,760

Dated\_\_\_\_\_