

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 55239 and N126

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) (6)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates (5)</u>	
			lb/hr	TPY
15-3-1	T-6600 Scrubber	Acrylic Acid	1.66	7.25
		Isopropanol (7)	1.19	5.21
		Propanediol (7)	0.90	3.94
15-3-2	Central Dust Collection	PM	0.33	0.73
15-3-3	Outlet Pneumatics Line Train 1	PM	1.16	2.23
15-3-4	Outlet Pneumatics Line Train 2	PM	1.15	2.20
15-3-5	Outlet Pneumatics Line Train 3	PM	1.15	2.20
15-3-6 (8)	Acrylic Acid Tank	Acrylic Acid	0.09	0.41
15-3-7	Propanediol Tank	Propanediol	0.01	0.01
15-3-8	Isopropanol Tank	Isopropanol	0.01	0.05
15-3-9	ETMPTA Tank	ETMPTA	0.01	0.01
15-3-10	SiperNat Bagging	PM	0.22	0.83
15-3-11	Waste Water Tank	Isopropanol	0.10	0.01
		Sodium Acrylate	0.01	0.01
15-3-12	Chilled Water/EG Tank	Ethylene Glycol	0.01	0.01

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			lb/hr	TPY
15-3-13	Neutralization Tank	Acrylic Acid	0.13	0.01
		Sodium Acrylate	0.01	0.01
15-3-FUGS	Fugitives (4)	Acrylic Acid	0.07	0.32
		Isopropanol	0.05	0.22
15-3-RECFUG	Isopropanol Recovery System Fugitives (4)	Isopropanol	0.03	0.13

**Planned Maintenance, Startup, and Shutdown (MSS) Emission Rate Limits**

TURNAROUND SAPMSS	IPA Tower Maintenance	VOC	34.85	0.56
	PSV Maintenance	VOC		
	Heat Exchanger Maintenance	VOC		
	Pump Maintenance	VOC		
	Line Opening	VOC		
	Chemical Usage	VOC		
	Vacuum Trucks	VOC		
	Plant Turnaround SAPMSS Emissions	VOC		
TURNAROUND SAPMSS	Fugitive Dust	PM	0.04	0.19
	Plant Turnaround SAPMSS Emissions	PM		
TURNAROUND SAPMSS	PSV Maintenance	NH <sub>3</sub>	0.06	0.01
	Plant Turnaround SAPMSS Emissions	NH <sub>3</sub>		

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Emission Point No. (1) (6)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (5)	
			lb/hr	TPY
	Valves (Including PSVs)	VOC		
	Heat Exchanger Maintenance	VOC		
	Pump Maintenance	VOC		
	Monomer Feed Line Purge	VOC		
	Nozzle Cleaning	VOC		
	Tote Washing	VOC		
	Line Opening	VOC		
	Chemical Usage	VOC		
	Vacuum Trucks	VOC		
ROUTINE SAPMSS	Routine SAPMSS Emissions	VOC	20.99	0.86
	Fugitive Dust	PM		
	Vacuum Trucks	PM		
ROUTINE SAPMSS	Routine SAPMSS Emissions	PM	0.05	0.20
	Valves	NH <sub>3</sub>		
ROUTINE SAPMSS	Routine SAPMSS Emissions	NH <sub>3</sub>	0.05	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) PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.  
ETMPTA - ethoxylated trimethylolpropane triacrylate  
VOC - volatile organic compounds such as isopropanol and propanediol
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) 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
- (6) Compliance with annual emission limit is based on a rolling 12-month period.
- (7) The maximum combined VOC emission rate for Isopropanol and Propanediol is 1.19 lbs/hr and 5.21 tpy.
- (8) After completion of the construction authorized by this permit as amended, the emissions from the acrylic acid tank will be routed to the T-6600 Scrubber and this emission point will no longer be authorized.

Dated: \_\_\_\_\_