

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 5562A and N006M1

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**
500	Styrene Storage	VOC	3.16	1.47
505	Water Drainage	VOC	24.10	14.16
514	Reject Crumb Shaker	VOC	0.06	0.23
517	Solvent KO Tank	VOC	<0.01	<0.01
518	Pellet Losses	VOC	88.05	78.13
520	Fugitives (4)	VOC	2.83	12.39
523	Cooling Tower	VOC	0.37	1.58
		Cl <sub>2</sub>	0.09	0.39
524	Process Flare (5)	VOC	265.11	64.24
		NO <sub>x</sub>	17.26	8.99
		CO	87.93	57.50
525	Blending and Storage	PM <sub>10</sub>	0.03	0.12
526	Bagging and Loading	PM <sub>10</sub>	0.01	0.03
534	Anti-Oxidant Tank	VOC	0.04	0.24
536	Solvent Recovery Flare	VOC	5.61	11.44
		NO <sub>x</sub>	0.76	2.07
		CO	6.54	17.76

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
538	Byproduct Tank Unloading	VOC	32.99	0.40
605	Cooling Tower	VOC	0.35	1.02
		Cl <sub>2</sub>	0.08	0.37
606	Reject Crumb Shaker	VOC	0.02	0.10
607	Blend Silo Vent	PM <sub>10</sub>	<0.01	0.01
608	Blend Silo Vent	PM <sub>10</sub>	<0.01	0.01
609	Blend Silo Vent	PM <sub>10</sub>	<0.01	0.01
610	Blend Silo Vent	PM <sub>10</sub>	<0.01	0.01
611	Offgrade Blend Silo Vent	PM <sub>10</sub>	<0.01	0.04
612	Vacuum System KO Pot	VOC	<0.01	<0.01
613	Train I Extruder Drier Vent	VOC	1.50	2.42
614	Train II Extruder Drier Vent	VOC	1.50	2.42
615	Train III Extruder Drier Vent	VOC	1.50	2.42
616	Train IV Extruder Drier Vent	VOC	1.50	2.42
900	Transfer Operations Fugitives (4)	VOC	0.44	1.94

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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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
PM<sub>10</sub> - particulate matter (PM) equal to or less than 10 microns. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.  
Cl<sub>2</sub> - chlorine
  - (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
  - (5) Routine flare emissions attributable to the K-Resin Plant, Neohexene Plant, and Hydrocarbon Transfer Operations. This flare also controls non-routine emissions including those occurring in the K-Resin Train IV butadiene storage system.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

\_\_\_\_\_Hrs/day\_\_\_\_\_Days/week\_\_\_\_\_Weeks/year or 8,760 Hrs/year

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

Dated August 6, 2003