EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 18241

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
12	Incinerator Stack	VOC, total	0.76	1.00
		Generic Solvent	0.76	1.00
		Generic Glycol	0.56	0.46
		Generic Oil	0.57	0.75
		Generic Monomer	0.40	0.63
		MEK	0.76	1.00
		Ethyl Acetate	0.76	1.00
		Isopropanol	0.76	1.00
		MPK	0.76	1.00
		Toluene	0.76	1.00
		VM and P	0.76	1.00
		Butylene Acetate	0.76	1.00
		Butyl Alcohol	0.76	1.00
		MIBK	0.76	1.00
		Isopar L	0.76	1.00
		Solvent 150	0.76	1.00
		Solvent 100	0.76	1.00
		Solvent 140	0.76	1.00
		Xylene	0.76	1.00
		Xylene-P	0.76	1.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		Ethyl Benzene	0.76	1.00
		Mineral Spirits	0.76	1.00
		Propyl Propasol Solvent	0.76	1.00
		MAK	0.44	1.00
		EEP Solvent	0.76	1.00
		MPK	0.76	1.00
		MIAK	0.46	1.00
		Glycol Ether EB	0.76	1.00
		Glycol Ether PM Acetate	0.76	1.00
12 (cont'd)	Incinerator Stack	Glycol Ether DPM	0.76	1.00
		Butyl Carbitol	0.76	1.00
		Glycol Ether PTB Solution	0.76	1.00
		Texanol Ester Alcohol	0.76	1.00
		Hexylcarbitol	0.76	1.00
		Isobutanol	0.76	1.00
		Secondary Butyl Alcohol	0.76	1.00
		Dimethyl Ethanolamine	0.43	0.94
		Glycol Ether EP	0.76	0.94
		Styrene	0.40	0.63
		Alpha Methyl Styrene	0.40	0.63
		Para Methyl Styrene	0.40	0.63
		Methacrylic Acid	0.40	0.63
		Diethylene Glycol	0.56	0.46
		Ethylene Glycol	0.56	0.46
		Glycerine Vapor	0.56	0.46
		Propylene Glycol Vapor	0.56	0.46
		Dipropylene Glycol	0.56	0.46
		Neopentyl Glycol	0.56	0.46
		Coconut Oil	0.57	0.75
		Linseed Oil	0.57	0.75
		Safflower Oil	0.57	0.75
		Sunflower Oil	0.57	0.75
		TOFA 2 percent	0.57	0.75
		TOFA 5 percent	0.57	0.75
		Tung Oil	0.57	0.75
		Tall Oil	0.57	0.75

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		NO_x (Comb.)	0.89	2.28
		CO (Comb.)	0.21	0.48
		PM_{10} (Comb.)	0.06	0.26
		SO_2 (Comb.)	0.003	0.01
13A and 13AA	Filter Press	VOC	0.10	0.45
13B	Drumming Room Stack	VOC, total	35.44	10.99
		Generic Solvent (non-HAP)	35.44	10.99
		Generic Solvent HAP	35.44	3.99
		Generic Glycol	0.003	0.0012
		Generic Monomer	1.84	0.74
		MEK	19.96	3.99
		Ethyl Acetate	12.48	5.10
		Isopropanol	6.03	3.73
		MPK	7.91	3.16
		Toluene	13.50	3.99
		VM and P	11.74	4.69
		Butylene Acetate	5.48	2.19
		Butyl Alcohol	2.09	0.84
		MIBK	7.73	3.09
		Isopar L	1.45	0.58
		Solvent 150	1.06	0.42
		Solvent 100	4.50	1.80
		Solvent 140	1.81	0.72
		Xylene	6.37	2.54
		Xylene-P	1.27	0.51
		Ethyl Benzene	1.27	0.51
		Mineral Spirits	3.22	1.29
		Propyl Propasol Solvent	3.63	1.45
		EEP Solvent	0.74	0.30
		MAK Solvent	0.00	0.00
		MIAK	0.06	0.026
		Glycol Ether EB	1.31	0.53
		Glycol Ether PM Acetate	13.31	3.99

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		Glycol Ether DPM	0.90	0.36
		Butyl Carbitol	0.16	0.065
		Glycol Ether PTB Solvent	3.99	1.60
		Hexylcarbitol	0.19	0.077
		Texanol Ester Alcohol	0.05	0.022
		Isobutanol	9.33	3.73
		Secondary Butyl Alcohol	14.56	5.82
13B (cont'd)	Drumming Room Stack	Glycol Ether EP	3.11	1.24
		Styrene	1.84	0.74
		Alpha Methyl Styrene	1.84	0.74
		Para Methyl Styrene	1.84	0.74
		Methyl acrylic Acid	1.84	0.74
		Diethylene Glycol	0.003	0.0012
		Ethylene Glycol	0.003	0.0012
		Glycerine Vapor	0.003	0.0012
		Propylene Glycol Vapor	0.003	0.0012
		Dipropylene Glycol	0.003	0.0012
		Neopentyl Glycol	0.003	0.0012
13BB	Process Drum Stack	VOC, total	35.44	10.99
		Generic Solvent (non-HAP)	35.44	10.99
		Generic Solvent HAP	35.44	3.99
		Generic Glycol	0.003	0.0012
		Generic Monomer	1.84	0.74
		MEK	19.96	3.99
		Ethyl Acetate	12.48	5.10
		Isopropanol	6.03	3.73
		MPK	7.91	3.16
		Toluene	13.50	3.99
		VM and P	11.74	4.69
		Butyl Acetate	5.48	2.19
		Butyl Alcohol	2.09	0.84
		MIBK	7.73	3.09
		Isopar L	1.45	0.58
		Solvent 150	1.06	0.42
		Solvent 100	4.50	1.80

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		Solvent 140	1.81	0.72
		Xylene	6.37	2.54
		Xylene-P	1.27	0.51
		Ethyl Benzene	1.27	0.51
		Mineral Spirits	3.22	1.29
		Propyl Propasol Solvent	3.63	1.45
13BB (cont'd)	Process Drum Stack	MAK	1.54	0.62
		EEP Solvent	0.74	0.30
		MIAK	0.06	0.026
		Glycol Ether EB	1.31	0.53
		Glycol Ether PM Acetate	13.31	3.99
		Glycol Ether DPM	0.90	0.36
		Butyl Carbitol	0.16	0.065
		Glycol Ether PTB Sol.	3.99	1.60
		Texanol Ester Alcohol	0.05	0.022
		Hexylcarbitol	0.19	0.077
		Isobutanol	9.33	3.73
		Secondary Butyl Alcohol	14.56	5.82
		Dimethyl ethanolamine	1.14	2.15
		Glycol Ether EP	3.11	1.24
		Styrene	1.84	0.74
		Alpha Methyl Styrene	1.84	0.74
		Para Methyl Styrene	1.84	0.74
		Methyl Acrylic Acid	1.84	0.74
		Diethylene Glycol	0.003	0.0012
		Ethylene Glycol	0.003	0.0012
		Glycerine Vapor	0.003	0.0012
		Propylene Glycol Vapor	0.003	0.0012
		Dipropylene Glycol	0.003	0.0012
		Neopentyl Glycol	0.003	0.0012
21	Curing Agent Bagging	PM_{10}	0.06	0.25
22	Curing Agent Scrubber	PM_{10}	0.021	0.028

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
23	Curing Agent Tank	VOC	0.004	0.015
24	Mix Tank	VOC	0.004	0.010
30	Inert Gas Generator	POC	0.04	0.17
31	Therminol Heater	POC	8.00	6.79
33	Carbon Abs. Sys. Vent	For backup control only		
Precoat	Solvent Tank	VOC	11.27	0.83
RM-8	Oil Storage Vent	Generic Oil	0.48	0.014
		Coconut Oil	0.48	0.014
		Linseed Oil	0.48	0.014
		Supreme Linseed Oil	0.48	0.014
		Safflower Oil	0.48	0.014
		Sunflower Oil	0.48	0.014
		TOFA 2 percent	0.48	0.014
		TOFA 5 percent	0.48	0.014
		Tung Oil	0.48	0.014
		Tall Oil	0.48	0.014
RM-9	Oil Storage Vent	Generic Oil	0.48	0.014
		Coconut Oil	0.48	0.014
		Linseed Oil	0.48	0.014
		Supreme Linseed Oil	0.48	0.014
		Safflower Oil	0.48	0.014
		Sunflower Oil	0.48	0.014
		TOFA 2 percent	0.48	0.014
		TOFA 5 percent	0.48	0.014
		Tung Oil	0.48	0.014
		Tall Oil	0.48	0.014
RM-10	Oil Storage Vent	Generic Oil	0.48	0.014
		Coconut Oil	0.48	0.014

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		Linseed Oil	0.48	0.014
		Supreme Linseed Oil	0.48	0.014
		Safflower Oil	0.48	0.014
		Sunflower Oil	0.48	0.014
		TOFA 2 percent	0.48	0.014
RM-10 (cont'd)	Oil Storage Vent	TOFA 5 percent	0.48	0.014
		Tung Oil	0.48	0.014
		Tall Oil	0.48	0.014
RM-11	Oil Storage Vent	Generic Oil	0.63	0.018
		Coconut Oil	0.63	0.018
		Linseed Oil	0.63	0.018
		Supreme Linseed Oil	0.63	0.018
		Safflower Oil	0.63	0.018
		Sunflower Oil	0.63	0.018
		TOFA 2 percent	0.63	0.018
		TOFA 5 percent	0.63	0.018
		Tung Oil	0.63	0.018
		Tall Oil	0.63	0.018
RM-12	Oil Storage Vent	Generic Oil	0.63	0.018
		Coconut Oil	0.63	0.018
		Linseed Oil	0.63	0.018
		Supreme Linseed Oil	0.63	0.018
		Safflower Oil	0.63	0.018
		Sunflower Oil	0.63	0.018
		TOFA 2 percent	0.63	0.018
		TOFA 5 percent	0.63	0.018
		Tung Oil	0.63	0.018
		Tall Oil	0.63	0.018
		Generic Glycol	0.11	0.0018
		Diethylene Glycol	0.11	0.0018
		Ethylene Glycol	0.11	0.0018
		Glycerin Vapor	0.11	0.0018
		Propylene Glycol Vapor	0.11	0.0018
		Dipropylene Glycol	0.11	0.0018

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		Neopentyl Glycol	0.11	0.0018
RM-17	Oil Storage Vent	Generic Oil	0.37	0.012
		Coconut Oil	0.37	0.012
		Linseed Oil	0.37	0.012
		Supreme Linseed Oil	0.37	0.012
		Safflower Oil	0.37	0.012
		Sunflower Oil	0.37	0.012
		TOFA 2 percent	0.37	0.012
		TOFA 5 percent	0.37	0.012
		Tung Oil	0.37	0.012
		Tall Oil	0.37	0.012
RM-18	IPDI or ADI Storage TK Vent	IPDI or ADI	<0.0005	<0.0001
RM-19	TDI Storage Tank Vent	TDI	<0.0001	<0.0001
RM-21	Maleic Anhydride Tank Vent	Maleic Anhydride	0.058	0.003
RM-22	Phthalic Anhydride TK Vent	Phthalic Anhydride	0.39	0.17
RM-23	E-Cap RM Storage TK Vent	E-Caprolactam	0.012	0.0006
GU-F	Glycol Unload Fugitives (4)	VOC	0.02	0.07
GTF-F	Glycol Tank Farm Fugitives (4)	VOC	0.07	0.32
GPB-F	Glycol Process Building Fugitives (4)	VOC	0.02	0.07

(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.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(3) VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM_{10}.
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
CO - carbon monoxide
POC - products of combustion
ADI - aliphatic diisocyanate
MEK - methyl ethyl ketone
MIBK - methyl isobutyl ketone
MPK - methyl propal ketone
VM and P - naptha
MIBK - methyl isobutyl ketone
MAK - methyl amyl ketone
MIAK - methyl isoamyl ketone
Glycol Ether EB - ethyl glycol monobutyl ether
Glycol Ether DPM - dipropylene glycol methyl ether
Glycol Ether PTB - polylene glycol mono-tert-butyl ether
Glycol Ether EP - ethylene glycol monopropyl ether
HAP - hazardous air pollutant
IPDI - isophorone diisocyanate
EEP - ethyl 3-ethoxypropionate
TDI - toluene diissocyanate
TOFA 2 percent Oil - tall oil fatty acid, 2 percent
TOFA 5 percent Oil - tall oil fatty acid, 5 percent

(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:

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Dated_____