#### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

#### Permit No. 17276

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.

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
S-6	Phenyl Acetate Surge Tank	VOC	0.0088	0.0480
P-10	4-HAP Dust Collection	PM <sub>10</sub> VOC	0.0870 0.0077	0.3810 0.0336
P-11	4-HAP Flaker Fugitives (4)	PM <sub>10</sub> VOC	0.7500 0.0100	0.0650 0.0100
P-12	APAP Mill Fugitives (4)	PM <sub>10</sub> VOC	0.0069 0.0100	0.0300 0.0100
P-13	Premilled APAP Blower Guard Filter	PM <sub>10</sub> VOC	0.0206 0.0004	0.0904 0.0018
S-14	Flare, T-510	VOC NO <sub>x</sub> CO	2.8515 0.1727 2.4522	12.4901 0.7566 10.7408
S-15	SO <sub>2</sub> Vent Scrubber, T-508	VOC O <sub>2</sub> 0.1258	0.0651 0.1437	0.2850
S-17	Acetic Acid/Acetic Anhydride Storage Tank	VOC	0.0453	0.0747
S-18	Acetic Anhydride Storage Ta	nk VOC	2.2935	0.2644
S-19	Phenol Storage Tank	VOC	2.6746	0.2660

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
S-20	Unit Process Fugitives (4)	VOC	2.0153	8.8270
		$SO_2$	1.2370	5.4180
		HF	0.5614	2.4590
		$NH_3$	0.2772	1.2140
		SOCl <sub>2</sub>	0.1584	0.6940
S-21	Tank Farm Fugitives (4)	VOC	1.9753	8.652
	3, 1,	$SO_2$	0.4596	2.0130
		HF	0.2779	1.2170
		HAS	0.0210	0.0920
S-24	Oxime Crystallizer Vent	VOC	0.0002	0.0002
P-25	4-HAP Rework System	PM <sub>10</sub>	0.1323	0.0110
P-23	4-HAP Rework System	VOC	0.1323	0.0110
		VOC	0.0100	0.0100
P-26	4-HAP Manual Charge	$PM_{10}$	1.4771	0.0739
	Fugitives (4)	VOC	0.0100	0.0100
P-28	Dry Ovimo Pin Vont Eiltor	DM	0.0174	0.0760
P-20	Dry Oxime Bin Vent Filter	PM <sub>10</sub> VOC	0.0008	0.0760
		VOC	0.0008	0.0033
P-29	Dry Oxime Bin Vent Filter	$PM_{10}$	0.0174	0.0760
	•	VOC	8000.0	0.0033
C 21	Ovima Wash Water Tank	VOC	0.0001	0.0001
S-31	Oxime Wash Water Tank,	VOC	0.0001	0.0001
P-32	Oxime Transfer Filter/	PM <sub>10</sub>	0.1864	0.1713
	Charge Hopper	VOC	0.0081	0.0074
P-33	Dry APAP Bin Vent Filter	$PM_{10}$	0.0016	0.0070
	,	VOC	0.0001	0.0001
D 04	B 4B4B B: 17 : 579	D14	0.0010	0.00=0
P-34	Dry APAP Bin Vent Filter	$PM_{10}$	0.0016	0.0070
		VOC	0.0001	0.0001
P-35	Carbon Storage Bin Vent Filte	er PM <sub>10</sub>	0.0386	0.0084

Permit No. 17276 Page 3

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
P-36	Carbon Filter Precoat Tank Air Filter	PM <sub>10</sub>	0.0013	0.0056
P-37	Sodium Dithionate Loading Ve	ent Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub> -PM	1.4000	0.0175
P-38	Potassium Iodide Charging Ve	ent PM	0.0544	0.0050
P-39	Citric Acid Receiving Bin	PM <sub>10</sub> VOC	1.000 0.0100	0.0276 0.0100
P-40	APAP Rework Transfer Guard Filter	PM <sub>10</sub> VOC	0.0224 0.0005	0.0049 0.0001
S-42	Oxime Wastewater Tank	VOC	0.0010	0.0004
S-44	4-HAP Rework System	VOC	0.0164	0.0105
S-46	1st APAP Centrate Surge Tar	nk VOC Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>	0.0001 0.0100	0.0001 0.0100
S-47	2nd APAP Centrate Surge Ta	nk, VOC Na $_2$ S $_2$ O $_4$	0.0022 0.0100	0.0005 0.0100
S-48	2nd APAP Wash Water Tank	VOC Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>	0.0001 0.0100	0.0001 0.0100
P-50	General Dust Collection Filter	Dust-PM <sub>10</sub> VOC	0.2250 0.0041	0.9450 0.0171
P-51	APAP Rework Transfer Guard Filter	PM <sub>10</sub> VOC	0.2250 0.0004	0.0049 0.0001
P-52	Milled Acetaminophen Bin Vent Filter	PM <sub>10</sub> VOC	0.0087 0.0002	0.0380 0.0007

Permit No. 17276 Page 4

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission</u> lb/hr	Rates *
P-54	Carbon Blower Guard Filter	PM <sub>10</sub>	0.0222	0.0049
P-55	Precoat Recirculation Tank V	ent PM <sub>10</sub>	0.1155	0.0265
S-56	APAP Crystallizer Acetic Anhydride Addition System	VOC	0.0071	0.0300
S-60	Oxime Centrifuge Feed Tank 0.0002	Vent	VOC	0.0016
S-61	Oxime Centrifuge	VOC	0.0024	0.0100
S-62	Oxime Dryer Feed Hopper	VOC	0.0024	0.0100
S-64	APAP Vacuum Jet Vent	VOC	0.0024	0.0100
S-65	APAP Purification Vent Head	er Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>	0.0024	0.0100
S-66	APAP Drying System	VOC	0.0024	0.0100
P-67	APAP Blender Bin Vent Filter	PM <sub>10</sub> VOC	0.0156 0.0003	0.0656 0.0012
S-68	Oxime Vacuum Jet Vent	VOC NH₃ N₂O	0.0027 0.4662 0.6033	0.0100 1.9580 2.5338
S-69	4-HAP Tower Jet Condenser 0.0100	Vent	VOC	0.0023
P-70	4-HAP Packaging Room Fugitives (4)	PM <sub>10</sub> VOC	0.0057 0.0100	0.0250 0.0100
P-73	Celite Bag Dumper	PM <sub>10</sub>	0.0013	0.0003
P-74	APAP Packaging Room	PM <sub>10</sub>	0.0060	0.0250

Permit No. 17276 Page 5

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
	Fugitives (4)	VOC	0.0100	0.0100
P-75	Citric Acid Storage Tank Filter	PM <sub>10</sub> VOC	0.3674 0.0100	0.0276 0.1000
P-76	APAP Packaging Hopper	PM <sub>10</sub>	0.0060	0.0250
P-77	APAP Partials to Blender (4)	PM <sub>10</sub> VOC	0.2205 0.0100	0.1653 0.0100
P-78	APAP Packaging Blower Gua Filter	rd PM <sub>10</sub> VOC	0.0145 0.0003	0.0634 0.0011
P-79	General Dust Collection Blowe Guard Filter	er PM <sub>10</sub> VOC	0.2250 0.0041	0.9855 0.0178
S-81	Oxime Centrifuge	VOC	0.0010	0.0100
S-82	Continuous 4-Stage Oxime Reaction Vessel	VOC NH₃ N₂O	0.0001 0.0291 0.0377	0.0003 0.1224 0.1584
P-87	Oxime Dryer Blower Guard Fi	lter PM <sub>10</sub> VOC	0.2456 0.0094	1.0314 0.0396
P-88	APAP Dryer Blow Guard Filter	PM <sub>10</sub> VOC	0.2141 0.0039	0.8991 0.0162
P-90	APAP Packaging Hopper	PM <sub>10</sub>	0.0060	0.0250
P-93	Phenyl Acetate Truck Loading	VOC	0.1365	0.0036

(1)	Emission p	oint identification - either specific equipment designation or emission point number from plot plan.
` '	PM - PM <sub>10</sub> -	nt source name. For fugitive sources use area name or fugitive source name.  particulate matter, suspended in the atmosphere, including PM <sub>10</sub> .  particulate matter equal to or less than 10 microns in diameter. Where PM is not it shall be assumed that no particulate matter greater than 10 microns is emitted.
		volatile organic compounds as defined in the 30 Title Texas Administrative Code
		on 101.1
		total oxides of nitrogen
		sulfur dioxide
		carbon monoxide
		hydroxyl ammonium sulfate
		hydrogen chloride
		hydrogen fluoride
	NH <sub>3</sub> -	
		nitrous oxide
	$Na_2S_2O_4$	
		thionyl chloride
(4)	Fugitive em emission	issions are an estimate only and should not be considered as a maximum allowable s rate.
(5)	VOC emiss	ons not including hexane.
*	Emission ra schedule	tes are based on and the facilities are limited by the following maximum operating :
	Hrs/d	ayDays/weekWeeks/year or <u>8,760</u> Hrs/year
**	Compliance	with annual emission limits is based on a rolling 12-month period.

Dated November 30,2001