

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1862A Chloroformate Production Unit

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
EIQ 2 West Boiler	PM10		0.08	
		VOC		0.05
EIQ 3 East Boiler	PM10		0.13	
		VOC		0.07
		SO2		0.01
EIQ 4 South ARI	VOC	10.10	12.12	
		COCl2	0.01	0.04
		HCl	0.002	0.01
EIQ 12	North ARI (5)	VOC	8.80	11.50
		COCl2	0.005	0.03
		HCl	0.003	0.013
EIQ 14	Caustic Scrubber	VOC	7.89	0.26
		HCl	0.002	0.001
EIQ 15	RM Storage Vent	VOC	1.05	0.45
EIQ F19	Fugitives (4)	VOC	0.52	2.30
		COCl2	0.001	0.0002
		HCl	0.001	0.007
EIQ 26	Cyclo Vent	VOC	<0.001	<0.001
EIQ 28	Fitz Dryer Vent	VOC	0.06	0.031
EIQ 29	Rx Charge Bag House	VOC	<0.001	<0.001
EIQ 36	BCF Storage Tank Fug.	VOC	0.02	0.10
EIQ F37	DMC Storage Tank Fug.	VOC	0.02	0.10

EQ 38	Cent Hold Tank	VOC	0.008	<0.001
EQ 39	Centrifuge	VOC	0.09	0.022
EQ 40	Cent Trans Tank	VOC	0.001	<0.001

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY
EIQ 41	DMO Loading		VOC	0.012 0.001
EIQ F24	Fugitives (4)		VOC	0.06 0.265
			COCl ₂	<0.001 <0.001
EIQ 42	Water Scrubber		HCl	0.002 0.005
EIQ 43	Water Seal Pot		HCl	0.001 0.004
EIQ 44	DDI Drumming		VOC	<0.001 0.001

- (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 General Rule 101.1
 SO₂ - sulfur dioxide
 PM₁₀ - particulate matter less than 10 microns in diameter
 HCl - hydrogen chloride
 COCl₂ - phosgene
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Listed emissions are those associated with Permit No. R-1862A; EPN EIQ 12 North ARI is permitted under Permit No. C-8444 with total emissions of:

VOC 13.62 lb/hr 14.24 TPY
 HCl 0.411 lb/hr 1.80 TPY
 COCl₂ 0.206 lb/hr 0.533 TPY

* 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

Revised_____

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1862A Z-ASP Production Unit

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
25	Reactor RX-3100 PM10 vent	PM10(L-ASP)	0.03	0.016
45	Reactor RX-3100 VOC Vent	VOC(Na-L-ASP)	<0.01	<0.01
26	Packaging vent	PM10(Z-ASP)	0.02	0.045
28	Dryer vent	PM10(Z-ASP)	0.11	0.41
29	Solids Handling Vent	PM10(Z-ASP)	<0.01	<0.01
30	Acid storage vent	HCl	<0.01	<0.01
46	Tank T-3111	VOC(Na-Z-ASP)	<0.01	<0.01
47	Tank T-3112	VOC(Na-Z-ASP)	<0.01	<0.01
48	Tank T-3113	VOC(Na-Z-ASP)	<0.01	<0.01
49	Tank T-3114	VOC(Na-Z-ASP)	<0.01	<0.01
51	Truck Loading Emissions	VOC(Na-Z-ASP)	<0.01	<0.01
F-27	Dryer Fugitives	PM10(Z-ASP)	<0.01	<0.01
F-31	Z-ASP Reactor Fugitives	VOC(Na-Z-ASP)	0.52	1.92
F-50	Tank Area Fugitives	VOC(Na-Z-ASP)	<0.01	<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.

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- (3) PM - particulate matter
PM10 - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NOx - total oxides of nitrogen
SO2 - sulfur dioxide
CO - carbon monoxide
L-ASP - L-Aspartic Acid
Z-ASP - Carbobenzoxo Aspartic Acid
Na-Z-ASP - Sodium Salt of Carbobenzoxo Aspartic Acid
- (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

Revised_____