

SMTV FER/EIS Emissions Report (200998) for 2010
SUN CHEMICAL CORP CINCINNATI INK
1431480237
March 15, 2011

- **Attachments**

Description	Type	Public Document	Trade Secret Document	Trade secret Justification
Fee Emission Report Calculations	Calculations	X		

- **Notes**

User Name	Date	Note

Report Pollutant Summary: Total Emissions (Tons)

Unit	SCC Id	PM-CON	SO2	NOX	OC	7439921	PM-FIL	PM10-FIL	PM25-FIL	VOC	NH3	CO
Liquid Ink (w/o PM)	3-01-020-99	0.	0.	0.	0.072	0.	0.	0.	0.	0.072	0.	0.
Liquid Ink (w/PM)	3-01-020-99	0.	0.	0.	2.026	0.	0.048695	0.048695	0.	2.026	0.	0.
Paste Ink Equipment	3-01-020-99	0.	0.	0.	0.0335	0.	0.	0.	0.	0.0335	0.	0.
Total		0.	0.	0.	2.1315	0.	0.048695	0.048695	0.	2.1315	0.	0.

Emissions Unit Group Summary: Liquid Ink (w/o PM)

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- Group

Emissions Unit Group Name: Liquid Ink (w/o PM)

- Current Group Members

P029:P029

P030:P030

P033:P033

- Group Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0	0	0.	TONs
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs
Organic Compounds	OC	X	0.072	0	0.072	TONs
Pb - Lead	7439921	X	0	0	0.	TONs
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0	0	0.	TONs
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0	0.	TONs
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0	0.	TONs
VOC - Volatile Organic Compounds	VOC		0.072	0	0.072	TONs
Ammonia	NH3		0	0	0.	TONs
CO - Carbon Monoxide	CO		0	0	0.	TONs
Total of Chargable Pollutants					0.072	TONs

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
HAP - Single Hazardous Air Pollutants	HAP	0.018	0	0.018	TONs

- **Process & Emissions Detail**

Source Classification Code (SCC): 3-01-020-99

- **Material Information, Annual Average Operating Schedule & Throughput Percent**

Schedule Trade Secret:

Hours Per Day: 12

Winter (Dec - Feb)%: 25

Days Per Week: 5

Spring (March-May)%: 25

Weeks Per Year: 52

Summer (June-Aug)%: 25

Hours Per Year: 3120

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Ink	Produced	39.0155	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0.072	0	0.072	TONs	
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) -	PM-FIL	X emissions:			0	0	0.	TONs	

Primary PM, Filterable Portion Only		ENG. JUDGEMENT							
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0.072	0	0.072	TONs	
Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							0.072	TONS	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Process Emissions

Pollutant	Code	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
HAP - Single Hazardous Air Pollutants	HAP	emissions: ENG. JUDGEMENT			0.018	0	0.018	TONs	

federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
HAP - Single Hazardous Air Pollutants	HAP	0.5049	0.0051	0.51	TONs

- Process & Emissions Detail

Source Classification Code (SCC): 3-01-020-99

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 12

Winter (Dec - Feb)%: 25

Days Per Week: 5

Spring (March-May)%: 25

Weeks Per Year: 52

Summer (June-Aug)%: 25

Hours Per Year: 3120

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Ink	Produced	654.58	TONs

- Process Emissions

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic	OC	X emissions:			2.0057	0.0203	2.026	TONs	OC Emissions: Assume 99% fugitive losses and 1% stack losses

Compounds		ENG. JUDGEMENT							(during solids charging via dust collector stack)
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			0.0485	0.000195	0.048695	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10- FIL	emissions: ENG. JUDGEMENT			0.0485	0.000195	0.048695	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25- FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			2.0057	0.0203	2.026	TONs	VOC Emissions: Assume 99% fugitive losses and 1% stack losses (during solids charging via dust collector stack)
Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							2.0747	TONS	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Process Emissions

Pollutant	Code	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
HAP - Single Hazardous Air Pollutants	HAP	emissions: ENG. JUDGEMENT			0.5049	0.0051	0.51	TONs	HAP Emissions: Assume 99% fugitive losses and 1% stack losses (during solids charging via dust collector stack)

Emissions Unit Group Summary: Paste Ink Equipment

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- Group

Emissions Unit Group Name: Paste Ink Equipment

- Current Group Members

- P003:P003
- P004:P004
- P005:P005
- P006:P006
- P007:P007
- P008:P008
- P014:P014
- P016:P016
- P019:P019

- Group Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0	0	0.	TONs
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs
Organic Compounds	OC	X	0.0335	0	0.0335	TONs
Pb - Lead	7439921	X	0	0	0.	TONs
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0	0	0.	TONs
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0	0.	TONs
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0	0.	TONs
VOC - Volatile Organic Compounds	VOC		0.0335	0	0.0335	TONs
Ammonia	NH3		0	0	0.	TONs
CO - Carbon Monoxide	CO		0	0	0.	TONs
Total of Chargable Pollutants					0.0335	TONs

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
HAP - Single Hazardous Air Pollutants	HAP	0.0005	0	5E-04	TONs

- Process & Emissions Detail

Source Classification Code (SCC): 3-01-020-99

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 12

Winter (Dec - Feb)%: 25

Days Per Week: 5

Spring (March-May)%: 25

Weeks Per Year: 52

Summer (June-Aug)%: 25

Hours Per Year: 3120

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Ink	Produced	306.258	TONs

- Process Emissions

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Organic Compounds	OC	X	emissions: ENG. JUDGEMENT			0.0335	0	0.0335	TONs	
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0.0335	0	0.0335	TONs	
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants								0.0335	TONS	

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Process Emissions

Pollutant	Code	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
HAP - Single	HAP	emissions:			0.0005	0	5E-04	TONs	

Hazardous Air Pollutants		ENG. JUDGEMENT							
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