

**SMTV FER/EIS Emissions Report (200569) for 2010**  
**Moellering Industries Incorporated**  
**1431074053**  
**April 14, 2011**

# 2010 Emissions Summary Report : 200569

Oct 7 2011, 11:24:09

**- Report Data**

Report Category: SMTV

Submitted Date: 04/14/2011

Reporting Year: 2010

Approved Date 04/25/2011

Reporting State Approved

**- Reports Included**

FER: X

ES:

EIS: X

**- Facility 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	4.6	0.	4.6	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		2.5	0.	2.5	TONs
Ammonia	NH3		0.	0.	0.	TONs
CO - Carbon Monoxide	CO		0.	0.	0.	TONs
Total of Chargable Pollutants					4.6	TONS

**- Attachments**

Description	Type	Public Document	Trade Secret Document	Trade secret Justification

**- Notes**

User Name	Date	Note

## Emission Units Without Detailed Emissions

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Emission Unit	Why Excluded	Company Equipment ID
F001	Less Than Reporting Requirement	Sawing-Grinding-Finishing Operation
P001	Less Than Reporting Requirement	Solvent Wipe Cleaning Operation
P004	Less Than Reporting Requirement	
P005	Less Than Reporting Requirement	
P006	Less Than Reporting Requirement	
P007	Less Than Reporting Requirement	
P008	Less Than Reporting Requirement	
R001	Less Than Reporting Requirement	Standard Laminate Operation
R002	Less Than Reporting Requirement	Custom Laminate Operation
R003	Less Than Reporting Requirement	Standard Gel Coat Line
R004	Less Than Reporting Requirement	Custom Gel Coat Line
R005	Less Than Reporting Requirement	
R006	Less Than Reporting Requirement	

### Report Pollutant Summary: Total Emissions (Tons)

Unit	SCC Id	PM-CON	SO2	NOX	OC	7439921	PM-FIL	PM10-FIL	PM25-FIL	VOC	NH3	CO
<b>P002</b>	<b>3-08-007-23</b>	0.	0.	0.	2.3	0.	0.	0.	0.	1.25	0.	0.
<b>P003</b>	<b>3-08-007-23</b>	0.	0.	0.	2.3	0.	0.	0.	0.	1.25	0.	0.
<b>Total</b>		0.	0.	0.	4.6	0.	0.	0.	0.	2.5	0.	0.

## Emission Unit Summary: P002

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Emissions Unit ID: P002

Detailed Reporting

DAPC Description:

### - Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
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	2.3	0	2.3	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		1.25	0	1.25	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					2.3	TONS	

### - Processes

#### - Process & Emissions Detail

Name: Standard Marble Cast

Source Classification Code (SCC): 3-08-007-23

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

Schedule Trade Secret:

Hours Per Day: 8

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 2024

Winter (Dec - Feb)%: 25

Spring (March-May)%: 27

Summer (June-Aug)%: 23

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Coating	Applied	43.94	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: MAT. BALANCE			2.3	0	2.3	TONs	<p>OC Emissions from P002 consist of emissions from 2 resins, 1 catalyst and 1 solvent.</p> <p>1) Resin OC Emissions (tons)=material usage (gal) * material density (lb/gal) * %OC * Emission Factor / 2000 lbs/ton</p> <p style="text-align: center;">where, emission factor = 0.03 (as indicated in PTI 14-04879, 09/21/00, P002 Condition C.1.d.)</p> <p>Resin 1 Emissions = 8,663.60 gal * 9.51 lb resin/gal resin * 32% * 0.03 /2000 lbs /ton = 0.395 tons OC  Resin 2 Emissions = 111.85 gal * 9.17 lb resin/gal resin * 31% * 0.03 /2000 lbs/ton = 0.0048 tons OC</p> <p>2) Catalyst OC Emissions (tons) = catalyst usage (gal)* material density (lb/gal)* %OC / 2000 lbs/ton  Catalyst Emissions = 260.95 gal * 8.95 lbs/gal * 72% / 2000 lbs/ton = 0.841 tons</p> <p>3) Solvent OC Emissions (tons) = solvent usage (gal) * material density (lb/gal) * %OC / 2000 lbs/ton  Solvent Emissions = 323.20 gal * 6.59 lbs/gal * 100% / 2000 lbs/ton = 1.06 tons</p> <p>Total OC Emissions = Resin Emissions + Catalyst Emissions +</p>

									Solvent Emissions = 0.395 tons + 0.0048 tons + 0.841 tons + 1.06 tons = 2.30 tons OC emitted
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		1.25	0	1.25	TONs	VOC= OC - solvent (acetone)
Ammonia	NH3		emissions: ENG. JUDGEMENT		0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT		0	0	0.	TONs	
Total of Chargable Pollutants							2.3	TONs	

## Emission Unit Summary: P003

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Emissions Unit ID: P003

Detailed Reporting

DAPC Description:

### - Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
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	2.30	0	2.3	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		1.25	0	1.25	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					2.3	TONS	

### - Processes

#### - Process & Emissions Detail

Name: Custom Marble Cast

Source Classification Code (SCC): 3-08-007-23

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

Schedule Trade Secret:

Hours Per Day: 8

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 2024

Winter (Dec - Feb)%: 25

Spring (March-May)%: 27

Summer (June-Aug)%: 23

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Coating	Applied	43.94	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: MAT. BALANCE			2.30	0	2.3	TONs	<p>OC Emissions from P003 consist of emissions from 2 resins, 1 catalyst and 1 solvent.</p> <p>1) Resin OC Emissions (tons)=material usage (gal) * material density (lb/gal) * %OC * Emission Factor / 2000 lbs/ton</p> <p style="text-align: center;">where, emission factor = 0.03 (as indicated in PTI 14-04879, 09/21/00, P002 Condition C.1.d.)</p> <p>Resin 1 Emissions = 8,663.60 gal * 9.51 lb resin/gal resin * 32% * 0.03 /2000 lbs /ton = 0.395 tons OC  Resin 2 Emissions = 111.85 gal * 9.17 lb resin/gal resin * 31% * 0.03 /2000 lbs/ton = 0.0048 tons OC</p> <p>2) Catalyst OC Emissions (tons) = catalyst usage (gal)* material density (lb/gal)* %OC / 2000 lbs/ton  Catalyst Emissions = 260.95 gal * 8.95 lbs/gal * 72% / 2000 lbs/ton = 0.841 tons</p> <p>3) Solvent OC Emissions (tons) = solvent usage (gal) * material density (lb/gal) * %OC / 2000 lbs/ton  Solvent Emissions = 323.20 gal * 6.59 lbs/gal * 100% / 2000 lbs/ton = 1.06 tons</p> <p>Total OC Emissions = Resin Emissions + Catalyst Emissions +</p>

									Solvent Emissions = 0.395 tons + 0.0048 tons + 0.841 tons + 1.06 tons = 2.30 tons OC emitted
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		1.25	0	1.25	TONs	VOC= OC - solvent (acetone)
Ammonia	NH3		emissions: ENG. JUDGEMENT		0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT		0	0	0.	TONs	
Total of Chargable Pollutants							2.3	TONs	