

SMTV FER/EIS Emissions Report (201908) for 2010
Marble Arch Products Inc.
1483040411
April 11, 2011

2010 Emissions Summary Report : 201908

Oct 11 2011, 11:13:07

- Report Data

Report Category: SMTV

Submitted Date: 04/11/2011

Reporting Year: 2010

Approved Date 04/12/2011

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	2	2.6	4.6	TONs
Pb - Lead	7439921	X	0.	0.	0.	TONs
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.6	0.	0.6	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		0.6	2.6	3.2	TONs
Ammonia	NH3		0.	0.	0.	TONs
CO - Carbon Monoxide	CO		0.	0.	0.	TONs
Total of Chargable Pollutants					5.2	TONS

- Attachments

Description	Type	Public Document	Trade Secret Document	Trade secret Justification

- 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
P001	3-08-007-99	0.	0.	0.	1.7	0.	0.6	0.	0.	0.6	0.	0.
R001	3-08-007-22	0.	0.	0.	2.9	0.	0.	0.	0.	2.6	0.	0.
Total		0.	0.	0.	4.6	0.	0.6	0.	0.	3.2	0.	0.

Emission Unit Summary: P001

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Emissions Unit ID: P001

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	1.7	0	1.7	TONs	
Pb - Lead	7439921	X	0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.6	0	0.6	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		0.6	0	0.6	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: pouring area marble

Source Classification Code (SCC): 3-08-007-99

- 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: 2000

Winter (Dec - Feb)%: 22

Spring (March-May)%: 26

Summer (June-Aug)%: 26

Fall (Sept-Nov)%: 26

Material	Material Action	Throughput	X Units
Product	Produced	299	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	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: MAT. BALANCE			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: MAT. BALANCE			0	0	0.	TONs	
Organic Compounds	OC	X emissions: MAT. BALANCE			1.7	0	1.7	TONs	OC is acetone. Emission is determined by purchases minus inventory change. We do recycle acetone in house to minimize usage. Additionally styrene is counted see voc section for calculations.
Pb - Lead	7439921	X emissions: MAT. BALANCE			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: MAT. BALANCE			0.6	0	0.6	TONs	The pm emitted is ground limestone. The controlled emission rate is 0.0025 * # limestone used. Total limestone used = 459,100#. Emission = 459100 * .0025 = 0.60 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: MAT. BALANCE			0	0	0.	TONs	
VOC - Volatile	VOC	emissions:			0.6	0	0.6	TONs	VOC emitted is styrene. Emissions are determined from cem

Organic Compounds		CEM							given in pto. Formula is VOC = 0.0003 * RESIN USED * STYRENE CONTENT IN PERCENT. 2010 usage = 139,700 pounds. Styrene content = 28%.. VOC = 0.0003 * 139,700 * 28 = 0.60 TONS
Ammonia	NH3	emissions: MAT. BALANCE			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: MAT. BALANCE			0	0	0.	TONs	
Total of Chargable Pollutants							2.3	TONS	

Emission Unit Summary: R001

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Emissions Unit ID: R001

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	0.3	2.6	2.9	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	2.6	2.6	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					2.9	TONS	

- Processes

- Process & Emissions Detail

Name: gel coat spray booth

Source Classification Code (SCC): 3-08-007-22

- 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: 2000

Winter (Dec - Feb)%: 22

Spring (March-May)%: 26

Summer (June-Aug)%: 26

Fall (Sept-Nov)%: 26

Material	Material Action	Throughput	X Units
Coating	Applied	15.3	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: MAT. BALANCE			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: MAT. BALANCE			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: MAT. BALANCE			0	0	0.	TONs	
Organic Compounds	OC	X emissions: MAT. BALANCE			0.3	2.6	2.9	TONs	OC is acetone. Usage is determined by purchases minus change in inventory. Stack oc is styrene which is described under voc section
Pb - Lead	7439921	X emissions: MAT. BALANCE			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: MAT. BALANCE			0	0	0.	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: MAT. BALANCE			0	0	0.	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: MAT. BALANCE			0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC	emissions: CEM			0	2.6	2.6	TONs	VOC is styrene. Emissions are determined by a factor that is taken from a industry table based on %styrene in the gelcoat used. Three different gelcoats are used. They are (with factor used) and pounds sprayed:

									Clear (0.23) 13506 # Pigmented (0.209) 3275# Granite color (0.107) 13,800# Emissions = 13,506 * 0.23 + 3275 * 0.209 + 13,800 * 0.107 = 2.6 tons
Ammonia	NH3	emissions: MAT. BALANCE			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: MAT. BALANCE			0	0	0.	TONs	
Total of Chargable Pollutants							2.9	TONs	