

**Rhode Island Department of Environmental Management**  
**2017 Air Pollution Inventory**  
 Styrene Resin or Polystyrene Use



\_\_\_\_\_  
 Facility Name

\_\_\_\_\_  
 Signature of Person Completing Form

\_\_\_\_\_  
 Date

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**OPEN MOLDING**

Application Method (hand, spray, gel, etc.)			
(%) Styrene (See MSDS)			
% Methyl Methacrylate (see MSDS)			
Starting Inventory (lbs) (1/1/17)			
Amount Purchased (lbs) In 2017			
Ending Inventory (lbs) (12/31/17)			

\*emission' statement facilities see emission statement guidance for calculating styrene emissions

**CLOSED MOLDING**

Type of Application			
(%) Styrene (see MSDS)			
Starting Inventory (lbs) (1/1/17)			
Amount Purchased (lbs) in 2017			
Ending Inventory (lbs) (12/31/17)			
Processing Temperature (F)			

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

**NOTE: USE THIS FORM FOR POLYSTYRENE OR STYRENE RESIN ONLY. USE MASS BALANCE FORM FOR ALL OTHER CHEMICALS. *The percent Methyl Methacrylate in the resin should be reported on the Mass Balance Reporting Form.***

### **OPEN MOLDING/BOAT BUILDING**

**General Types of Application - Hand Lay-up** - uses manual techniques combined with open molds. **Spray Lay-up** - is an open mold process, that uses mechanical spraying and chopping equipment for depositing the resin. **Gelcoat Spraying** - consist of separate sources of resin and catalyst, with an airless hand spray gun that mixes them together into an atomized resin/catalyst stream. *For more specific application types see the Unified Emission Factors Table at <http://www.dem.ri.gov/pubs/forms.htm#inventory>.*

### **CLOSED MOLDING**

**Type of Application - Compression molding** - uses sheet molding compound where the sheet is compressed between heated molds and cured. **Injection/Transfer** - uses bulk molding compound. The molding compound is formed through a small opening into a closed heated mold and cured.

**Starting Inventory** - Report the amount of the polystyrene or styrene resin present on site at the start of the year, if known. State whether the amount is given in pounds or gallons. Please provide data in pounds if possible.

**Amount Purchased** - Report the amount of the polystyrene or styrene resin purchased in 2006 and indicate whether the number given is in pounds or gallons. Again, provide data in pounds if possible.

**Ending Inventory** - Report the amount of the polystyrene or styrene resin present on site at the end of the year, if known. State whether the amount is given in pounds or gallons.

**Percent Styrene in Resin** - For polystyrene or styrene resin process. Indicate the percent of styrene in resin. (Refer to MSDS for specific information)

**Processing Temperature** - Temperature at which molding unit operates when styrene is formed and cured. Closed molding process only.

**Emission statement facilities** – For the most recent emission factors use the Unified Emissions Factors for Open Molding of Composites Table which can be found at: <http://www.dem.ri.gov/pubs/forms.htm#inventory>.

Contact Karen Slattery for further assistance 222-2808 ext 7030.