

# Material Safety Data Sheet

## I. PRODUCT INFORMATION

**Product:** Poly Molding LLC EN Products  
**Synonyms:** Molded Expanded Polystyrene (MEPS)  
**Product Grades:** EP512, 15, 19, 22, 39 and 46 (modified)  
**Chemical Family:** Polystyrene Thermoplastic  
**CAS Registry No.:** 9003536  
**CAS Name:** Benzene, Ethenyl, Homopotymer  
**Formula:** (C8 H8) n

**HAZARD RATING**  
0 = MINIMAL      **HEALTH 0**  
1 = SLIGHT        **FIRE 2**  
2 = MODERATE     **REACTIVITY 0**  
3 = SERIOUS  
4 = SEVERE

## II. INGREDIENTS

Hazardous Components	CAS Registry No.:	Approx. Weight Percentage
Pentane	109660	<2%
Bromine Flame retardant	3194-55-6	<1%

Non-Hazardous Components	CAS Registry No.:	Approx. Weight Percentage
Polystyrene 9	003536	>92%

## III. PHYSICAL DATA

<b>Form:</b> Rigid, cellular foam blocks, boards, shapes	<b>Specific Gravity (Water = 1):</b> <1
<b>Color:</b> White	<b>Volatile by Volume:</b> <1.8% (Pentane & Water)
<b>Odor:</b> Very slight pentane	<b>Vapor Pressure:</b> N/A
<b>Boiling Point:</b> N/A	<b>Vapor Density (Air = 1):</b> N/A
<b>Melting Point:</b> N/A (Softening @ 160° F)	<b>Evaporation Rate:</b> None
<b>Density:</b> 0.6 pcf to 3.0 pcf	<b>Solubility in Water:</b> Insoluble

## IV. FIRE & EXPLOSION DATA

**Flash Pt. and Method Used:** 610° F min. (ASTM D1929)  
**Special Fire-Fighting Instructions:** Use approved self-contained breathing apparatus respirator and personal protective clothing (turn out gear).  
**Extinguishing Media:** Water fog, carbon dioxide, dry chemical, foam  
**Autoignition Temperature:** 850° F min.  
**Unusual Fire & Explosion Hazards:** If exposed to fire, high heat will develop and may produce dense, black smoke. Dust generated by fabrication (.ie. sanding, sawing, etc.) will increase fire hazard and should be handled accordingly.

## V. REACTIVITY DATA

**Stability (Conditions to Avoid):** Stable. Avoid fire and high temperatures.  
**Incompatibility (Materials to Avoid):** Organic solvents and some insecticides, oil products, aldehydes, open flames, and amines.  
**Hazardous Decomposition:** CO, C07, H2O and Hydrogen Bromides  
**Hazardous Polymerization:** None.



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## Principal Health Hazards and Signs & Symptoms of Exposure

**Eye Contact:** Dust or particles may cause mechanical eye irritation and/or injury

**Inhalation:** Dust from mechanical fabrication may cause upper respiratory irritation. Fumes from hot-wire cutting may also cause upper respiratory irritation.

**Skin Contact:** None. may produce slight skin irritation respiration in a few individuals.

**Ingestion:** Biological inert. May act as an obstruction if swallowed.

**Carcinogenicity:** None.

**Safety Precautions:** Use positive ventilation. Mechanical fabrication, sanding, etc. requires the use of safety glasses or goggles and dust mask.

## First Aid

**Eyes:** Rinse with clean water. Remove foreign particles with clean, lint-free cloth. Obtain medical treatment if pain, blinking, tears, or redness persists.

**Inhalation:** If overcome by exposure, remove to fresh air. Provide oxygen and artificial. Get medical attention.

**Skin:** Not expected to present skin hazard. Wash exposed areas with mild soap and water. Consult a physician if irritation persists.

**Ingestion:** Not expected to present significant ingestion hazard. Consult physician if swallowed.

## VII. EMPLOYEE PROTECTION

### *Personal Protection Equipment*

**Respiratory Protection:** Use approved dust mask when sawing or sanding

**Skin Protection:** Wear gloves and/or sleeves if sensitivity is noted.

**Eye Protection:** Use approved safety glasses/goggles when sawing or sanding.

**General Control Measures:** Use positive ventilation. Wear safety glasses/goggles and dust mask of mechanical fabrication is to take place.

## VIII. SPILL OR LEAK PROCEDURE

**Spill, Leak or Release Procedures:** Normal good housekeeping should be observed. material can be swept or picked up and placed into a suitable container for disposal.

**Reportable Quantity:** None

**Disposal Method:** Recycle, incinerate (WTE) or land-fill per local and state regulations.

## IX. SPECIAL PRECAUTIONS

**Storage and Handling:** Expanded Polystyrene is considered to be combustible, and adequate protection from sources of ignition should be taken.

**Transportation Requirements:** Not a D.O.T. Hazardous Material

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