

Styrene Products, Inc.

Expanded Polystyrene Material Safety Data Sheet (EPS MSDS)

I—PRODUCT INFORMATION

Product Name:	Expanded Polystyrene Foam (EPS)	CAS REGISTRY NO:	9003536
Product Densities (lb./ft³):	3/4, 1, 1-1/4, 1-1/2, 2, 3	CAS NAME:	Ethenylbenzene Homopolymer
Chemical Family:	Polystyrene Thermoplastic	Formula:	(C ₈ H ₈) _N
		TSCA INVENTORY STATUS:	Listed

Hazard Rating:	2 = Moderate	Health	0
0 = Minimal	3 = Serious	Fire	2
1 = Slight	4 = Severe	Reactivity	0

II—INGREDIENTS

Hazardous Components:	CAS REGISTRY NO:	APPROX. WEIGHT PERCENTAGE:
Pentane	109660	1% Maximum
Halogen Flame Retardants	N/A	.9% Maximum
Non-Hazardous Components:		
Polystyrene	9003536	98% Minimum

III—PHYSICAL DATA

Form:	Rigid cellular foam blocks, boards & shapes	Boiling Point:	N/A
Vapor Pressure:	N/A	Vapor Density:	N/A
Color:	White	Melting Point:	Softens at 175 degrees F to 220 degrees F
Volatiles by Volume:	<4% (pentane and water)	Evaporation Rate:	None
Odor:	Very slight hydrocarbon odor	Solubility in Water:	Insoluble
Density:	0.6 PCF to 3.0 PCF		

IV—FIRE & EXPLOSION DATA

Flash Point and Method Used: 610 degrees F Min (ASTM D 1929)	Auto Ignition Temperature: 850 degrees F Minimum
Special Fire Fighting Instructions: Use approved self-contained breathing apparatus respirator and personal protective clothing	Unusual Fire and Explosion Hazards: May produce dense black smoke. Smoke consists of carbon (soot), carbon monoxide and water. Dust generated by fabrication, i.e. dusting, sanding, etc., will increase fire hazard and should be handled accordingly.
Extinguishing Media: Water fog, Carbon Dioxide, Dry Chemical, and Foam	

V—REACTIVITY DATA

Stability (Conditions to Avoid): Stable. Avoid fire and high pressure temperatures.	Hazardous Decomposition: Carbon monoxide, Carbon Dioxide, Carbon, Water, Hydrogen Halide
Incompatibility (Materials to Avoid): Will dissolve in most organic solvents and some insecticides, aldehydes, and amines.	Hazardous Polymerization: None

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VI—HEALTH HAZARDS & FIRST AID

PRINCIPAL HEALTH HAZARDS & SIGNS AND SYMPTOMS OF EXPOSURE:

Eye Contact:

Dust particles may cause mechanical eye irritation and/or injury.

Inhalation:

Dust from mechanical fabrication may cause upper respiratory irritation. Fumes from hot wire cutting can also cause upper respiratory irritation.

Skin Contact:

None. May produce slight skin irritation in a few individuals.

Ingestion:

Biologically inert. May act as an obstruction if swallowed.

Carcinogenicity:

None.

FIRST AID:

Eyes:

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

Inhalation:

If overcome by exposure, move to fresh air. Provide oxygen and artificial respiration. Get medical attention.

Skin:

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

Ingestion:

Not expected to present significant ingestions hazard. Consult physician if swallowed.

VII—EMPLOYEE PROTECTION

Personal Protective Equipment:

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

Skin Protection: None required. Wear gloves and/or sleeves, if sensitivity noted.

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

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

VIII—SPILL OR LEAK PROCEDURES

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 landfill per local and state regulations.

IX—SPECIAL PRECAUTIONS

Storage and Handling:

Expanded Polystyrene, although it contains a fire retardant additive, is considered to be combustible and adequate protection from sources of ignition should be taken.

Transportation Requirements:

Not a D.O.T. "Hazardous Material".

The information contained herein is provided as a general reference. Your EPS supplier believes that data set forth herein is accurate and is given in good faith. Your EPS supplier makes no guarantee or warranty and does not assume any liability with respect to the accuracy or completeness of such information.

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