



MATERIAL SAFETY DATA SHEET

I - PRODUCT INFORMATION

PRODUCT: THERMAL FOAM EPS SYNONYMS: Expanded Polystyrene (EPS) PRODUCT GRADES: Type XI, I, VIII, II and IX CHEMICAL FAMILY: Polystyrene Thermoplastic CAS REGISTRY NO.: 9003536 CAS NAME: Ethenylbenzene Homopolymer FORMULA: (C ₈ H ₈) _n TSCA INVENTORY STATUS: Listed	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">HAZARD RATING:</td> <td style="width: 30%;">2=Moderate</td> <td style="width: 30%;">HEALTH</td> <td style="width: 10%;">0</td> </tr> <tr> <td>0=Minimal</td> <td>3=Serious</td> <td>FIRE</td> <td>2</td> </tr> <tr> <td>1=Slight</td> <td>4=Severe</td> <td>REACTIVIT Y</td> <td>0</td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Thermal Foams, Inc. 2101 Kenmore Avenue Buffalo, New York 14207 (716) 874-6474 800-333-6267</td> <td style="width: 50%;">Thermal Foams/ Syracuse, Inc. 6173 South Bay Road PO Box 1981 Cicero, New York 13039 (315) 699-8734</td> </tr> </table>	HAZARD RATING:	2=Moderate	HEALTH	0	0=Minimal	3=Serious	FIRE	2	1=Slight	4=Severe	REACTIVIT Y	0	Thermal Foams, Inc. 2101 Kenmore Avenue Buffalo, New York 14207 (716) 874-6474 800-333-6267	Thermal Foams/ Syracuse, Inc. 6173 South Bay Road PO Box 1981 Cicero, New York 13039 (315) 699-8734
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II - INGREDIENTS

HAZARDOUS COMPONENTS:	CAS REGISTRY NO.:	APPROX. WEIGHT PERCENTAGE:
Pentane	109660	1% Max.
Halogen Flame Retardants	N/A	.9% Max.
NON-HAZARDOUS COMPONENTS:	CAS REGISTRY NO.:	APPROX. WEIGHT PERCENTAGE:
Polystyrene	9003536	98% Min.

III - PHYSICAL DATA

FORM: Rigid cellular foam blocks, boards and shapes COLOR: White ODOR: Very slight hydrocarbon order BOILING POINT: N/A MELTING POINT: Softens at 175°F. to 220°F. SPECIFIC GRAVITY (Water=1): Density 0.6 pcf to 2.0 pcf	VAPOR PRESSURE: N/A VOLATILES BY VOLUME: <4% (pentane and water) VAPOR DENSITY (AIR=1): N/A EVAPORATION RATE: None SOLUBILITY IN WATER: Insoluble
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IV - FIRE & EXPLOSION DATA

FLASH PT., AND METHOD USED: 610°F. Min. (ASTM D 1929) 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.	AUTO IGNITION TEMPERATURE: 850°F. Min. UNUSUAL FIRE AND EXPLOSION HAZARDS: May produce dense black smoke. Smoke consists of carbon (soot) carbon monoxide, carbon dioxide and water. Dust generated by fabrication i.e., sanding, sawing, etc. will increase fire hazard and should be handled accordingly.
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V - REACTIVITY DATA

STABILITY (CONDITIONS TO AVOID): Stable. Avoid fire and high temperatures. INCOMPATIBILITY (MATERIALS TO AVOID): Will dissolve in most organic solvents, and some insecticides, aldehydes and amines.	HAZARDOUS DECOMPOSITION: Carbon monoxide, carbon dioxide, carbon, water, hydrogen halide. HAZARDOUS POLYMERIZATION: None
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VI - HEALTH HAZARDS & FIRST AID

PRINCIPAL HEALTH HAZARDS & 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 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

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 attention if pain, blinking, tears or redness persist.

INHALATION: If overcome by exposure, remove 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 ingestion 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.

EYE PROTECTION: Use approved safety glasses/goggles when sawing or sanding.

GENERAL CONTROL MEASURES: Use positive ventilation. Wear safety glasses/goggles and dust mask if mechanical fabrication is to take place.

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".

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