

Material Safety Data Sheet

I. PRODUCT INFORMATION *Effective date: May 1 / 2009*

Product : Thermal 3Ht	Hazard Rating 0 = Minimal 3 = Serious 1 = Slight 4 = Severe 2 = Moderate	Health	0
Synonyms : Molded Expanded Polystyrene (MEPS)		Fire	2
Product Grades : Type I, VIII, II, and IX (modified)		Reactivity	0
Chemical Family : Polystyrene Thermoplastic			
CAS Registry No. : 9003536			
CAS Name : Benzene, Ethenyl, Homopolymer			
Formula : (C ₈ H ₈) n			
TSCA Inventory Status : Listed			
		Thermal Building Concepts 1366 Elon Drive, Waukon, IA 52172 (563) 535-7100 Toll Free 1-877-703-2323	

II. INGREDIENTS

Hazardous Components:	CAS Registry No.:	Approx. Weight Percentage:
Pentane	109660	<2%
Bromine Flame Retardant Polymeric Film	3194-55-6	<1% 1-3%
Non-Hazardous Components:	CAS Registry No.:	Approx. Weight Percentage:
Polystyrene	9003536	>92%

III. PHYSICAL DATA

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

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 i.e. 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) :	Will dissolve in most organic solvents, and some insecticides, aldehydes, and amines.
Hazardous Decomposition :	CO, CO ₂ , H ₂ O and Hydrogen Bromides
Hazardous Polymerization :	None.

<u>Principal Health Hazards and Signs & Symptoms of Exposure</u>	<u>First Aid</u>
<p>Eye Contact : Dust or particles may cause mechanical eye irritation and/or injury</p> <p>Inhalation : Dust from mechanical fabrication may cause upper respiratory irritation. Fumes from hot wire cutting can also cause upper respiratory irritation.</p> <p>Skin Contact : None. May produce slight skin irritation in a few individuals.</p> <p>Ingestion : Biological inert. May act as an obstruction if swallowed.</p> <p>Carcinogenicity : None.</p> <p>Safety Precautions: Use positive ventilation. Mechanical fabrication, sanding, etc. requires the use of safety glasses or goggles and dust mask.</p>	<p>Eyes : Rinse with clean water. Remove foreign particles with clean, lint-free cloth. Obtain medical treatment if pain, blinking, tears, or redness persists.</p> <p>Inhalation : If overcome by exposure, remove to fresh air. Provide oxygen and artificial respiration. Get medical attention.</p> <p>Skin : Not expected to present skin hazard. Wash exposed areas with mild soap and water. Consult physician if irritation persists.</p> <p>Ingestion : Not expected to present significant ingestion hazard. Consult physician if swallowed.</p>

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 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 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".

MSDS 085

Emergency Telephone Number CHEMTREC 1-800-424-9300 (This number is available days, nights, weekends & holidays.)

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