

# MATERIAL SAFETY DATA SHEET

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## SECTION I: PRODUCT INFORMATION

PRODUCT: Styroflex  
SYNONYMS: Styroflex Expanded Polystyrene (EPS)  
PRODUCT GRADES: Type I, VIII, II, and IX  
CHEMICAL FAMILY: Polystyrene Thermoplastic  
CAS REGISTRY NO: 9003536  
CAS NAME: Ethenylbenzene Homopolymor  
FORMULA: (C8 H8)n  
TSCA INVENTORY STATUS: Listed

CONTACT: Styrotech, Inc.  
8800 Wyoming Ave. No.  
Brooklyn Park, MN 55445-1837  
1-800-451-6963

### HAZARD RATING:

0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

HEALTH	0
FIRE	2
REACTIVITY	0

## SECTION II: INGREDIENTS

HAZARDOUS COMPONENTS:	CAS REGISTRY NO:	APPROX. WEIGHT %:
Pentane	109660	1.0% Max.
Halogen Flame Retardants	N/A	.9% Max
NON-HAZARDOUS COMPONENTS:	CAS REGISTRY NO:	APPROX. WEIGHT %:
Polystyrene	9003536	98% Min.

## SECTION III: PHYSICAL DATA

FORM: Rigid cellular foam block, boards and shapes	COLOR: White
BOILING POINT: N/A	MELTING POINT: Softens at 175-200 degrees F
SPECIFIC GRAVITY: (Water = 1) Density 0.6 pcf to 2.0 pcf	VAPOR PRESSURE: N/A
EVAPORATION RATE: None	VOLATILES BY VOLUME: <4% (pentane and water)
VAPOR DENSITY: (Air = 1)	SOLUBILITY IN WATER: Insoluble
ODOR: Very slight hydro-carbon odor	

## SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD USED: 610 degrees 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  
AUTOIGNITION TEMPERATURE: 850 degrees 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.

## SECTION 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 aminos.  
HAZARDOUS DECOMPOSITION: Carbon monoxide, carbon dioxide, carbon, water, hydrogen halide.  
HAZARDOUS POLYMERIZATION: None

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## SECTION VI: HEALTH HAZARDS AND FIRST AID

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.

## SECTION 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 protective ventilation. Wear safety glasses/goggles and dust mask if mechanical fabrication is to take place.

## SECTION 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 land fill, per local and state regulations.

## SECTION 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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