

Section IV Fire And Explosion Information

Flash point		n/a
Explosion limits		Lower Explosion limit(LEL): n/a
		Upper Explosion limit(UEL): n/a
Fire	Fire fighting agent	Water, foam or dry chemical
	Special fire fighting procedures	Wear full protective equipment and with self-contained breathing apparatus, unidentified products of hydrocarbon monooxide and hydrogen chloride will be released under extreme heat condition (decomposition)

Section V Reactivity Data

Stability	Stable
Hazardous polymerization	Will not occur
Incompatibility	None
Condition to avoid hazardous decomposition	Open flame or extreme heating

Section VI Health Hazards And First Aid Measures

*** Under Traditional Handling

Route of entering human body : Ingestion		
Effects of exposure	Acute	No adverse effects
	Chronic	
Symptom and signs of exposure		No adverse effects
Emergency response and first aid measures		If gastroenteritis symptoms develop consult a physician (ingestion)

*****For Exposure To Products Of Combustion Or High Temperature Decomposition**

Route of entering human body	inhalation, skin contact	
Effects of exposure	Acute	Irritation of the eyes , nose , throat and upper respiratory tract
	Chronic	
Symptoms and signs of exposure	Cough	
Emergence and first aid measures	Skin	Flush skin with soap and cool water
	Eyes	Flush eyes with water <i>Seek medical attention</i>
	Inhalation	Remove to fresh air if breathing is difficult administer oxygen. if respiration stops, give mouth-to-mouth resuscitation. <i>Seek medical attention.</i>

Section VII Measures To Prevent Exposure

Personal protective equipment	Eyes	Safety glasses with side shields are recommended during crushing and cutting film
	Respiratory	Not necessary for routine handling
	Gloves	Use heavy cotton gloves when cutting film by hand
Ventilation	Necessary during heating of material	
Special protection	Store away from easily ignited chemicals , materials and open flames	

Section VIII Response To Spills And Waste Disposal

Emergency response to spills	Solid sheeting no spills problem
Waste disposal methods	Recommend crushing and recycle

MATERIAL SAFETY DATA SHEET

I - PRODUCT INFORMATION

CONTACT:
STYRENE PRODUCTS, INC.
(715) 359-6600

PRODUCT NAME:
Expanded Polystyrene Foam (EPS)

PRODUCT DENSITIES (In lb / ft³):
¾, 1, 1 ¼, 1 ½, 2, 3

CHEMICAL FAMILY:
Polystyrene Thermoplastic

CAS REGISTRY NO:
9003536

CAS NAME:
Ethenylbenzene Homopolymer

FORMULA:
(C₈H₈)_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	CAS REGISTRY NO:	APPROX. WEIGHT PERCENTAGE:
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° F. to 220° 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 PT., AND METHOD USED: 610° F. Min.(ASTM D 1929)	AUTO IGNITION TEMPERATURE: 850° F. Minimum
SPECIAL FIRE FIGHTING INSTRUCTIONS: Use approved self-contained breathing apparatus respirator and personal protective clothing. (Turn out gear).	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.
EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, and foam.	

V - REACTIVITY DATA

STABILITY (CONDITIONS TO AVOID): Stable. Avoid fire and high 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

VI – HEALTH HAZARDS & FIRST AID	
PRINCIPAL HEALTH HAZARDS & SIGNS AND SYMPTOMS OF EXPOSURE:	FIRST AID:
EYE CONTACT: Dust or particles may cause mechanical eye irritation and/or injury.	EYES: Rinse with clean water. Remove foreign particles with clean, lint-free cloth. Obtain medical attention if pain, blinking, tears or redness persists.
INHALATION: Dust from mechanical fabrication may cause upper respiratory irritation. Fumes from hot wire cutting can also cause upper respiratory irritation.	INHALATION: If overcome by exposure, move to fresh air. Provide oxygen and artificial respiration. Get medical attention.
SKIN CONTACT: None. May produce slight skin irritation in a few individuals.	SKIN: Not expected to present skin hazard. Wash exposed areas with mild soap and water. Consult physician if irritation persists.
INGESTION: Biologically inert. May act as an obstruction if swallowed.	INGESTION: Not expected to present significant ingestion hazard. Consult physician if swallowed.
CARCINOGENICITY: None	

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 sawing 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."

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