



MATERIAL SAFETY DATA SHEET

Revised January 1, 2011

SECTION I: PRODUCT IDENTIFICATION

PRODUCT: Cellofoam®
SYNONYMS: Cellofoam® Expanded Polystyrene (EPS)
PRODUCT GRADES: Type I, VIII, II and IX
CHEMICAL FAMILY: Polystyrene Thermoplastic
CAS REGISTRY NO: 9003536
FORMULA: (C₈H₈)_n
TSCA INVENTORY STATUS: Listed

HAZARD RATING:
0=Minimal
1=Slight
2=Moderate
3=Serious
4=Severe

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HEALTH 0
FIRE 2
REACTIVITY 0

SECTION II: INGREDIENTS

HAZARDOUS COMPONENTS:	CAS REGISTRY NO:	APPROX. WEIGHT %
Pentane	109660	1.0% Maximum
Halogen Flame Retardants	N/A	0.9% Maximum

NON-HAZARDOUS COMPONENTS:	CAS REGISTRY NO:	APPROX. WEIGHT %
Polystyrene	9003536	98% Minimum

SECTION III: PHYSICAL DATA

FORM: Rigid cellular foam block, boards and shapes	ODOR: Very slight hydro-carbon odor
COLOR: White	MELTING POINT: Softens at 175 -220 degrees Fahrenheit.
SPECIFIC GRAVITY (Water=1): Density 0.6 pcf to 2.0 pcf	BOILING POINT: N/A
EVAPORATION RATE: None	VAPOR PRESSURE: N/A
VAPOR DENSITY (Air=1): N/A	VOLATILES BY VOLUME: <4% (pentane & water)
	SOLUBILITY IN WATER: Insoluble

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD USED: 610 degrees Fahrenheit Minimum (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 Fahrenheit, Minimum

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 (MATERIAL 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

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 protective 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 persists.

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 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.

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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