



MATERIAL SAFETY DATA SHEET

I - PRODUCT INFORMATION

PRODUCT: R-Control® EPS, Contour Taper Tile®, Perform®, WSG®, Fabri-tech®, SpecLam™ core, R-Control® SIP core and Geofoam

SYNONYMS: AFM Expanded Polystyrene (EPS)

PRODUCT GRADES: Type I, VIII, II and IX

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

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II - INGREDIENTS

HAZARDOUS COMPONENTS:

Pentane

Halogen Flame Retardants

CAS REGISTRY NO:

109660

N/A

APPROX. WEIGHT PERCENTAGE:

1% Max.

.9% Max.

NON-HAZARDOUS COMPONENTS:

Polystyrene

CAS REGISTRY NO:

9003536

APPROX. WEIGHT PERCENTAGE:

98% Min.

III - PHYSICAL DATA

FORM: Rigid cellular foam blocks, boards, and shapes

COLOR: White

ODOR: Very slight hydrocarbon odor

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

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.

AUTOIGNITION 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.

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

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, move 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."

The information contained herein is provided as a general reference. AFM Corporation believes the data set forth herein is accurate and is given in good faith. AFM Corporation makes no guarantee or warranty and does not assume any liability with respect to the accuracy or completeness of such information.

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