**PERMATHERM, INC.**  
269 INDUSTRIAL PARK ROAD  
MONTICELLO, GA 31064

**EMERGENCY TELEPHONE NUMBER**  
(706-468-7500)

**SECTION NOMENCLATURE**

CHEMICAL NAME: Expanded Polystyrene Foam (EPS)  
CHEMICAL FAMILY: Polystyrene  
FORMULA: \((C_8H_8)n\) with flame retardant

**SECTION II HAZARDOUS INGREDIENTS**

None when residual pentane blowing agent is reduced to level described in Section IX.

**SECTION III PHYSICAL DATA**

BOILING POINT: Not Applicable  
SOLUBILITY IN WATER: None  
DENSITY: 0.75 - 2.0 PCF  
PERCENT VOLATILE (Vol%): 0.18% Pentane & Water  
EVAPORATION RATE: Not Applicable  
APPEARANCE & COLOR: Rigid Cellular Foam, Block or Board, White, No Odor.

**SECTION IV FIRE AND EXPLOSION**

EXTINGUISHING MEDIA: Water Fog, CO₂, Dry Chemical  
SPECIAL FIRE FIGHTING PROCEDURES: None  
UNUSUAL FIRE & EXPLOSION HAZARDS: May Emit Large Volumes of Dense, Black Smoke

**SECTION V HEALTH HAZARD**

THRESHOLD LIMIT VALUE: None  
EFFECTS OF OVEREXPOSURE: None

**EMERGENCY & FIRST AID PROCEDURES**

NONE

**SECTION VI REACTIVITY DATA**

STABLE: Yes  
INCOMPATIBILITY: None  
HAZARDOUS DECOMPOSITION: None  
CONDITIONS TO AVOID: Do Not Expose to Flame or Other Ignition Source

**SECTION VII SPILL OR LEAK**

Normal good housekeeping should be observed in properly disposing of scrap material. Dispose of waste in accordance with local ordinances.

**SECTION VII SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION: None  
VENTILATION: None  
PROTECTIVE GLOVES: None  
EYE PROTECTION: Safety Glasses recommended to avoid dust if raw is used for fabrication.

**SECTION IX SPECIAL PRECAUTIONS**

Immediately after molding EPS into blocks the residual blowing agent, pentane, entrapped within the blocks ranges from about 2.0 to 3.0% by weight. The blocks are then stored at room temperature or at elevated temperatures (e.g. < 150°F) to reduce the entrapped pentane and moisture to less than 1% by weight (0.18% by volume) for dimensional stabilization. The block storage areas must be adequately ventilated to avoid a hazardous build-up of flammable pentane vapors. If the product in block or board form is to be fabricated by hot-wire cutting, work areas should be ventilated to avoid a buildup of processing fumes.