

EXPANDED POLYSTYRENE FOAM, EPS, 12/01/2011

Section II Hazardous Ingredients	
Non 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
Specific Gravity	Apparent Density 1.0 to 2.0 pcf density
Percent Volatile by Volume	(pentane & water) 0.18% (see Section IX)
Evaporation Rate	Not applicable
Appearance and Odor	Rigid cellular foam block or board – no odor
Section IV Fire and Explosion Hazard Data	
Extinguishing Media	Water fog, CO ₂ , dry chemical
Special Fire Fighting Procedure	None
Unusual Fire and Explosion Hazards	May emit large volume of dense, black smoke
Section V Health Hazard Data	
Threshold Limit Value	None
Effects of Overexposure	None
Emergency and First Aid Procedures	None
Section VI Radioactivity Data	
Stable	Yes
Incompatibility	None
Hazardous Decomposition Products	None
Hazardous Polymerization	Will not occur
Conditions to Avoid	None
Section VIII Special Protection Information	
Respiratory Protection	None – may act as obstruction if swallowed
Ventilation	None
Protective Gloves	None
Eye Protection	Safety glasses recommended to avoid mechanical irritation from dust if saw fabricating

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Section IX Special Precautions

Immediately after molding expanded polystyrene 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 an elevated temperature (e.g., 130°F) to reduce the entrapped pentane and moisture to less than 1% by weight (0.18% by volume) dimensional stabilization. The block storage areas must be, therefore, adequately ventilated to avoid build up of 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 build-up of processing fumes.