



INSULPERM AND INSULPERM GEOFOAM SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name

Insulperm Insulation and Insulperm Geofoam

Recommended Use

Construction material, insulation, geofoam, packaging and other miscellaneous applications.

Supplier Information

Siplast, 1000 Rochelle Blvd., Irving, TX 75062

Customer Information Telephone Number: 800-922-8800

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification	None
Label Elements	None
Signal Word	None Hazard
Statement(s)	None
Other Hazards	Low toxicity under normal conditions of handling and use.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS No.	Wt. %
Polystyrene Foam	Ethenylbenzene Homopolymer	9003-53-6	95-100%
Pentanes* (isomers)	n-pentane	09-66-0	≤ 2%
	Isopentane	78-78-4	
	Cyclopentane		

Expanded polystyrene foam contains a halogenated flame retardant system. Ingredients not precisely identified are proprietary or nonhazardous.

* Flammable blowing agent that off-gases from product. Most of the pentane of-gases prior to shipment.



Section 4 – FIRST AID MEASURES

Eye Contact: Dust or particles may cause mechanical eye irritation and/or injury. Flush eyes thoroughly with water for several minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Inhalation: Dust from mechanical fabrication may cause upper respiratory irritation. Fumes from hot wire cutting can also cause upper respiratory irritation. Move person to fresh air. Obtain medical attention if ill effects occur.

Skin Contact: May cause slight skin irritation in a few individuals. Wash with mild soap and running water. Remove and launder contaminated clothing before reuse.

Ingestion: Ingestion of this material is unlikely. It is biologically inert and ingestion of small quantities of this material under normal circumstances would not cause harmful effects.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: 698°F (370°C)

Auto Ignition: 850°F (454°C)

Extinguishing Method: Water fog, foam, carbon dioxide, dry chemical.

Special Firefighting Protective Equipment: Use approved self-contained breathing apparatus with full face mask and personal protective clothing (turn out gear).

Unusual Fire and Explosion Hazards: Burning product may produce dense black smoke consisting 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 6 – ACCIDENTAL RELEASE MEASURES

Land Spill: Scoop up material and put into suitable container for recycling or disposal as a non-hazardous waste in an appropriate recycling or disposal facility.

Water Spill: This material will float and disperse with wind and current. Contain the material with brooms, pick up or remove with a vacuum truck.

Air Release: This material will settle out of the air. If concentrated on land, it can then be scooped up for recycling or disposal as a non-hazardous waste.



SECTION 7 – HANDLING AND STORAGE

Storage Temperature: Ambient (below 170°F)

General Storage: Store in well ventilated area. Assure storage areas and shipping containers are adequately ventilated. Do not enter confined areas unless adequately ventilated. The flammable vapors of pentane (blowing agent) are heavier than air and may accumulate in low places. “No Smoking – No Matches – No Lighters – No Welding” rules should be enforced.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines / Limits

Expanded Polystyrene

OSHA PEL: Particulates (not otherwise classified) 15 mg/m³, 8 Hr. TWA, total dust 5 mg/m³, 8 Hr. TWA, respirable dust.

ACGIH TLV: None Established

Pentanes

OSH PEL: 1,000 ppm

ACGIH TLV: 600 ppm

Styrene

OSHA PEL: 100 ppm, 8 Hr. TWA 200 ppm, Ceiling 600 ppm – 5 min. Max.

ACGIH TLV: 50 ppm, 213 mg/m³, 8 Hr., TWA, Skin, STEL 100 ppm, 426 mg/m³

Personal Protection

Eye/Face Protection: If there is a potential for exposure to particles which could cause eye discomfort or for fabrication operations, safety glasses with side shields are recommended.

Skin Protection: No precautions other than clean body-covering clothing should be needed.

Hand Protection: Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.



Respiratory Protection: Respiratory protection is not normally required. When respiratory protection is required for certain operations, including but not limited to saw, router or hot-wire cutting, use an approved air-purifying respirator. In dusty or misty atmospheres, use an approved particulate respirator.

Ingestion: No precautions necessary due to the physical properties of the material.

Engineering Controls

Ventilation: Use ventilation adequate to maintain safe levels if overheating or dust occurs during processing. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

Special Precautions or Other Comments: Follow procedures specified in the NFPA Codes and Standards for handling combustible dust. Maintain good housekeeping to avoid dust buildup.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Color: White or black rigid cellular foam blocks, boards, sheets and shapes.

Melting Point: As a thermoplastic, polystyrene does not exhibit a true melting point. It will begin to soften at about 212°F (100°C) and, as more heat is applied, melting occurs.

Solubility in Water: Insoluble

Odor: Very slight hydrocarbon

Density: 0.6 to 3.0 pounds per cubic foot

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Reactivity: Reactive with oxidizing agents.

Incompatible Materials and Conditions to Avoid: Organic solvents, esters, amine and aldehydes will dissolve product. High temperature, poor ventilation combined with freshly expanded product may create hazardous, explosive or fire conditions.



Hazardous Decomposition Products: May decompose in fire. See Section 5 of SDS for combustion products statement.

Hazardous Polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

This product has not been tested as a separate entity. Therefore, the hazards must be evaluated on the basis of the individual ingredients, and those hazards must be assumed to be additive in the absence of complete information. The hazards described in this document have been evaluated on a threshold of 1.0% for all hazardous ingredients and 0.1% for all carcinogens.

Ingestion: The acute oral LD50 in rat is probably above 15,000 mg/kg. Relative to other materials, this material is classified as “relatively harmless” by ingestion.

Eye Contact: Irritation may develop following contact with human eyes. Dusts may cause mechanical irritation. Fumes/vapor released during thermal operations such as hot-wire cutting may cause eye irritation.

Skin Contact: No irritation is likely to develop following contact with human skin.

Skin Absorption: This product will probably not be absorbed through human skin.

Inhalation: No toxic effects are known to be associated with inhalation of dust from this material. Mechanical irritation may result from inhalation of dust from this material.

Other Effects of Overexposure: No other adverse clinical effects have been associated with exposure to this material.

Chronic Toxicity and Carcinogenicity: Contains component(s) which did not cause cancer in laboratory animals.

SECTION 12 – ECOLOGICAL INFORMATION

This material is not expected to cause harm to animals, plants or fish. Fish or animals may eat product and obstruct their digestive tract. It is not expected to harm ecosystems through its applied use.

SECTION 13 – WASTE DISPOSAL CONSIDERATIONS

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. Incinerate material in accordance with Federal, State/Provincial and Local requirements. Do not incinerate in closed containers.

Discarded product is not a RCRA hazardous waste.



SECTION 14 – TRANSPORTATION INFORMATION

For domestic transportation purposes, this product is not regulated as a hazardous material by the US Department of Transportation (DOT) under Title 49 of the Code of Federal Regulations.

SECTION 15 – REGULATORY INFORMATION

Toxic Substance Control Act (TSCA): All ingredients are listed on the TSCA inventory.

Section 313 Supplier Notification: This product contains no known toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

OSHA Hazard Communication Standard: This product is not a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16 – OTHER INFORMATION

HMIS Rating:	Health	0
	Flammability	2
	Reactivity	0

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