

PRODUCT SAFETY DATA SHEET HS-PD-003

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance/preparation

Product Range **INSULETICS Expanded polystyrene boards**
 Data sheet applies to: **Insul-Pol EN – enhanced polystyrene & Insul-Pol standard polystyrene**

General Expanded & moulded polymer of STYRENE (a.k.a.PHENYLETHANE). May contain small residual amount of PENTANE(<1% w/w), used in the production process, this evaporates away within a few days of manufacture.
 Alias Expanded Polystyrene, EPS

1.3 Company/undertaking identification

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2. COMPOSITION

POLYSTYRENE CAS# 9003-53-6

3. PHYSICAL DATA

Physical State:	Closed cell rigid foam sheets
Appearance:	White Solid
Odour:	May have Aromatic odour of residual Pentane otherwise NONE
Boiling Point:	N/A
Melting Point:	240°C
Vapour Pressure @ 20 Deg.C:	N/A
Vapour Density:	N/A
Percentage Volatiles:	<1%
Solubility in Water:	Nil
Specific Gravity:	<1
Density:	Typically 13gl-1
Evaporation Rate:	N/A
pH:	N/A

4. FIRE AND EXPLOSION HAZARD DATA

Auto Ignition Temperature:	430°C. Attributed to the Polymer Component.
Extinguishing Media:	Water Spray, Carbon Dioxide, Dry Chemical, Foam. Use Water Spray to keep adjacent material cool.
Special Fire Fighting Procedures:	Standard Procedure for Class A Fires, (Use self-contained breathing apparatus)
Unusual Fire & Explosion Hazards:	Above 250°C. thermal decomposition gives flammable irritant
Hazardous products of Combustion:	Styrene Monomer, Carbon Monoxide, Carbon Dioxide, Dense Smoke, may also produce Benzene and other hydrocarbons.

5. HEALTH HAZARD DATA

This product is NOT classified as hazardous to health in EU Countries.

Threshold Limit:	Not established
Emergency & First Aid Procedures:	This material can be considered as non irritant to skin and eyes and practically non harmful by ingestion. Products formed by thermal decomposition can be irritant to skin and mucous membranes. Dust and particles released from machining may cause mechanical irritation of eyes.

6. REACTIVITY DATA

Stability Conditions to Avoid: None

Incompatibility (Materials to Avoid): Avoid contact with concentrated acids

Hazardous Polymerisation: Will not occur.

7. SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled: If material is NOT contaminated, it can be wiped and used.

Waste Disposal Method: Disposal must be done in accordance with relevant regulation. Sanitary landfill is recommended.

8. SPECIAL PROTECTION INFORMATION

Appropriate Hygienic Practices:

Avoid breathing fibres or dust.

Wash thoroughly after handling and before eating, drinking or smoking.

Remove contaminated clothing and clean before reuse.

Personal Protective Equipment:

When processing (e.g. Cutting, grinding), wear appropriate dust mask, impervious gloves, Safety Glasses and appropriate protective clothing.

Engineering Controls:

Adequate ventilation should be provided during processing

9. LABELLING (CPL REGULATIONS 1984)

Not classified as dangerous for transport purposes.

10. TRANSPORT AND STORAGE

Ensure security of load and where necessary sheeting / roping should be used.

It is recommended that mechanical lifting equipment is used when moving bulk quantities.

Store in a dry place. Avoid direct sunlight.

11. Revision

Issued July 2012

The information contained here is offered in good faith and is based on our current knowledge.

We thereby withhold the right to update and amend this document as necessary.

The information should not be taken as guarantee of specific performance and users should make their own assessment and make all applicable personnel aware accordingly.

The wearing of appropriate safety equipment is strongly recommended as a precaution and the product should only be used in its design application.