

## SAFETY DATA SHEET EXPANDED POLYSTYRENE

EPS/UK/EN/27 - 05/01/23

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product	Expanded polystyrene, EPS (generic product names)
Product Use	Construction, insulation, packaging, floatation
Manufacturer	Styrene Packaging & Insulation Ltd
Address	Morley Carr Road, Low Moor, Bradford, BD12 0RA
Telephone / Emergency Contact Telephone	01274 691777

### SECTION 2 - HAZARDS IDENTIFICATION

Ghs/Clp Regulation (Ce) No.1272/2008	Not classified
Label Elements	None
Other Hazards	Non-hazardous in finished form. Residual quantities of process chemicals and blowing agents are insignificant. The product is combustible if exposed to intense heat or fire. EPS melts at high temperature and molten droplets may cause skin burns.

NOT CLASSIFIED AS HAZARDOUS TO HEALTH IN EU COUNTRIES.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

%	CAS No.	EC No.	REACH No.	Chemical Name	Chemical Formula	Hazards Classification	Notes
	9003-53-6	500-008-9	-	Polystyrene	[C8H8] <sub>n</sub>	-	1

1 - the product is a foam material manufactured by the expansion of the organic polymer Polystyrene.

### SECTION 4 - FIRST AID MEASURES

Inhalation	Dust particles from cutting are unlikely to be of inhalable dimensions unless power tools are used. If problems are experienced, remove to fresh air and drink water
Skin Contact	No specific measures for material in its normal state. If in contact with molten material treat affected area immediately with cold water and seek medical attention, do not attempt to remove any molten or solidified material from the skin
Eye Contact	If dust particles enter the eye, wash with water
Ingestion	Drink plenty of water if accidentally ingested
Most Important Symptoms And Effects	EPS melts at high temperature and molten droplets may cause skin burns

**IF ANY ADVERSE REACTION OR DISCOMFORT CONTINUES FROM ANY OF THE ABOVE EXPOSURES, SEEK MEDICAL ADVICE.**

## SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media	Water, foam, carbon dioxide (CO <sub>2</sub> ), and dry powder
Specific Hazards	Those normally associated with combustion of organic hydrocarbons and should be considered toxic, will include carbon monoxide and carbon dioxide, may contain hydrogen bromide and trace amounts of styrene monomer
Advice For Firefighters	Dense smoke will be generated and suitable breathing apparatus should be worn when fighting fires. Keep adjacent products cool by spraying with water

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions	No specific measures are required for personal protection.
Environmental Precautions	The product is in solid form and releases no harmful substances.
Method For Containment And Cleaning Up	N/A

DISPOSE OF IN ACCORDANCE WITH SECTION 13.

## SECTION 7 - HANDLING AND STORAGE

Precautions For Safe Handling	No special precautions
Technical Measures	If using power tools, provide dust extraction or use suitable respiratory protection, wear eye protection
Technical Precautions	When cutting, ensure adequate ventilation of workplace is available. When carrying sheet material be aware of strong winds especially when working at heights
Technical Measures For Safe Storage	Avoid heat, flames and other sources of ignition
Storage Conditions	Store under cover in dry conditions, protected from direct sunlight Stack sheet material flat without bearers

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	None
Engineering Measures	No specific requirements
Respiratory Equipment	If cutting using hot wire ensure adequate ventilation to the workplace otherwise no specific requirements
Hand Protection	No specific requirements
Eye Protection	If cutting with power tools suitable eye protection is advised otherwise no specific requirements
Skin Protection	No specific requirements
Hygiene Measures	No specific requirements

NO SPECIFIC PROTECTION IS REQUIRED WHEN HANDLING EXPANDED POLYSTYRENE.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Cellular foam in block, sheet, moulding or bead form
Colour	White (grey with UV absorbers) Can be coloured
Odour	Odourless
Ph	N/A
Boiling Point	N/A
Melting Point	240°C
Flash Point	350°C
Flammability (Solid, Gas)	N/A
Relative Density	6gl-1 to 60gl-1 @ STP
Solubility	Insoluble in water, soluble in aryl compounds and halogenated solvents and ketones
Explosive Properties	N/A

## SECTION 10 - STABILITY AND REACTIVITY

Reactivity	None
Chemical Stability	Stable and inert under normal conditions of use. Resistant to many chemicals but not to solvents, care should be taken in choice of adhesives used. Decomposes above 200°C.
Possibility Of Hazardous Reactions	None in normal conditions of use
Conditions To Avoid	Heating above 110°C, ignition sources, solvents, prolonged sunlight
Incompatible Materials	For full list see chemical behaviour sheet <a href="http://www.styrene.biz/uploads/SPI_Chemical_Behaviour_v2.pdf">www.styrene.biz/uploads/SPI_Chemical_Behaviour_v2.pdf</a>

## SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological Data	EPS is non-toxic and not chemically irritating to the skin or eyes
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**DUST CAN CAUSE MECHANICAL IRRITATION TO EYES - PLEASE REFER TO SECTION 7&8.**

## SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Not expected to be toxic to aquatic organisms in its solid state
Degradability	No significant biodegradation is expected
Bioaccumulative	Not expected to bioaccumulate
Mobility In Soil	The product is inert
Results Of PBT And VPVB Assessment	No data available
Other Adverse Effects	No data available

**EPS HAS A ZERO OZONE DEPLETING POTENTIAL (ODP) AND VIRTUALLY ZERO GLOBAL WARMING POTENTIAL (GWP)**

## SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of in accordance with regulations and procedures in force in the country of use or disposal
EWC-CODE:	07.02.13 Non-hazardous substance

## SECTION 14 - TRANSPORT INFORMATION

UN Number	Not classified
UN Proper Shipping Name	N/A
Transport Hazard Classes	Not classified
Packing Group	N/A
Environmental Hazards	None
Special Precautions For User	None
Transport In Bulk According To Annex li Of Marpol 73/78 And The IBC Code Transport In Bulk	N/A

THE PRODUCT IS NOT COVERED BY INTERNATIONAL REGULATION ON THE TRANSPORT OF DANGEROUS GOODS (IMDG, IATA, ADR/RID).

## SECTION 15 - REGULATORY INFORMATION

### SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

The European Regulation on Chemicals No 1907/2006, Registration, Evaluation, Authorisation of Chemicals (REACH) enacted on June 1st 2007 requires the provision of a Safety Data Sheet for hazardous substances and mixtures/preparations. On the 1st January 2021 this regulation and related legislation is replicated in the UK as UK REACH.

SPI's EPS products (block, sheet, moulding or bead), are defined as articles under REACH and therefore a Safety Data Sheet for these products is not a legal requirement. In accordance with industry practice and voluntary commitments, SPI has decided to continue to provide its customers with the appropriate information for the purpose of assuring safe handling and use of EPS throughout the product life.

CSA STATUS:	N/A
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## SECTION 16 - OTHER INFORMATION

If using adhesives with this product follow the adhesive manufacturer's instructions carefully.

The information on this data sheet represents data available at the time of writing and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product, which involves using the product in combination with any other product or any other process, is the responsibility of the user.