

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	01274 691777 (Mon – Fri 8:00 am – 5:00 pm)

SECTION 2 - HAZARDS IDENTIFICATION

EUROPEAN DIRECTIVE 67/548/EEC	Not classified
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] _n	-	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 (CO₂), 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. For full list see chemical behaviour sheet. www.styrene.biz/uploads/SPI_Chemical_Behaviour_V1.pdf
POSSIBILITY OF HAZARDOUS REACTIONS	None in normal conditions of use.
CONDITIONS TO AVOID	Heating above 110°C, ignition sources, solvents, prolonged sunlight.
INCOMPATIBLE MATERIALS	None

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA	EPS is non-toxic and not chemically irritating to the skin or eyes.
DUST CAN CAUSE MECHANICAL IRRITATION TO EYES – PLEASE REFER TO SECTION 7.1.	

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY Not expected to be toxic to aquatic organisms in its solid state.

DEGRADABILITY No significant biodegradation is expected.

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 II 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.

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

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.

**THIS MATERIAL SAFETY DATA SHEET / PRODUCT DATA SHEET IS IN ACCORDANCE WITH
THE EU DIRECTIVES 67/548/EEC, 1999/45/EEC, 1907/2006, 1272/2008 AND 453/2010.**