Est. 1986

Unit 1 Valley Park Watermills Road Chesterton Newcastle under Lyme Staffordshire ST5 6AT Tel: 01782 - 562249 Fax: 01782 - 566612 Email: sales@cispolystyrene.co.uk

### SAFETY DATA SHEET Issued under the Health & Safety at Work Act 1974

SECTION 1: Identification of the substance and of the company/undertaking
PRODUCT: Expanded Polystyrene (EPS) products

SUPPLIER: CIS Polystyrene & Foam, Unit 1 Valley Park, Watermills Road, Chesterton, Staffordshire, ST5 6AT Telephone: 01782 562249 Email: sales@cispolystyrene.co.uk

### SECTION 2: Hazards identification

Under current COSHH regulations, EPS is not classed as a hazardous substance. EPS is not known to lead to any skin irritations, is chemically stable, biologically inert and non-toxic. EPS is flammable and contains residual amounts of pentane and styrene monomer. Precautions must be taken in storing and cutting. When re-working the product, where substantial dust is produced suitable dust extraction should be provided to ensure that exposure does not exceed 10mg/m<sup>3</sup> over 8 hours TWA (Occupational Exposure). Adequate fume extraction must be considered dependent on any subsequent hot wire process used.

### SECTION 3: Composition/information on ingredients

Expanded polystyrene (EPS) contains residual amounts of Pentane blowing agent (<1%wt) and Styrene Monomer. Fire retardant grades contain Butadiene Styrene Brominated Copolymer.

Est. 1986

Component Name	CAS No.	Content range	EC Hazard F	Risk Phrase
Pentane	109-66-0	< 2 wt-% max	Highly Flammable	R11
Other information	CAS number for polymer component (>97 wt-%) : 9003-53-6 (Polystyrene )			
Hexabromocyclododecane	25637- 99-4 or3194- 55-6	<1 wt-% max	-	-
ECTION 4: First aid measure	S			
ust Inhalation: Clear respira	tory tract.	If recovery doe	es not take place, see	k medical advice.
<b>kin contact:</b> Molten material olymer with plenty of cold w	ater. Do n	ot attempt to re	emove molten or solid	dified material fro
ne skin. Seek immediate med ye contact: Rinse eye with cl moke inhalation: In the unlik	ical attent ean water ely event	ion. . If any irritation that someone is	on persists, seek med overcome by fumes,	ical advice.
ne skin. Seek immediate med ye contact: Rinse eye with cl moke inhalation: In the unlik o an area of clean air. In ext	ical attent ean water cely event reme cases	ion. . If any irritation that someone is	on persists, seek med overcome by fumes,	ical advice.
ne skin. Seek immediate med ye contact: Rinse eye with cl moke inhalation: In the unlik o an area of clean air. In ext ECTION 5: Firefighting meas PS is not classed as flammabl emperatures (see Section 9).	ical attent lean water xely event reme cases <b>ures</b>	ion. If any irritation that someone is s seek medical a	on persists, seek med overcome by fumes, assistance.	ical advice. remove the perso
ne skin. Seek immediate med ye contact: Rinse eye with cl moke inhalation: In the unlik o an area of clean air. In ext ECTION 5: Firefighting meas PS is not classed as flammabl emperatures (see Section 9). pecific hazards: When subje	ical attent ean water reme cases ures e, but will ected to fir	ion. If any irritation that someone is seek medical a burn on contac e, EPS will prod	on persists, seek med overcome by fumes, assistance. t with flame or expos	ical advice. remove the perso sure to high
ne skin. Seek immediate med ye contact: Rinse eye with cl moke inhalation: In the unlik o an area of clean air. In ext ECTION 5: Firefighting meas PS is not classed as flammabl	ical attent ean water reme cases ures e, but will ected to fir ease hydrog	ion. If any irritation that someone is seek medical a burn on contac e, EPS will prod gen bromide.	on persists, seek med overcome by fumes, assistance. t with flame or expos uce carbon monoxide	ical advice. remove the perso sure to high
ne skin. Seek immediate med ye contact: Rinse eye with cl moke inhalation: In the unlik o an area of clean air. In ext ECTION 5: Firefighting meas PS is not classed as flammabl emperatures (see Section 9). pecific hazards: When subje ioxide. FRA versions will rele xtinguishing Media: Water sp T IT IS NECESSARY TO CALL Th	ical attent lean water kely event reme cases <b>ures</b> e, but will ected to fir ease hydrog pray, dry po	ion. If any irritation that someone is seek medical a burn on contac e, EPS will prod gen bromide. owder or carbor	on persists, seek med overcome by fumes, assistance. t with flame or expos uce carbon monoxide n dioxide.	ical advice. remove the perso sure to high e and carbon
ne skin. Seek immediate med ye contact: Rinse eye with cl moke inhalation: In the unlik o an area of clean air. In ext ECTION 5: Firefighting meas PS is not classed as flammabl emperatures (see Section 9). pecific hazards: When subje ioxide. FRA versions will rele xtinguishing Media: Water sp TIT IS NECESSARY TO CALL TH WOLVED.	ical attent ean water reme cases ures e, but will ected to fir ease hydrog oray, dry po HE FIRE BRI	ion. If any irritation that someone is seek medical a burn on contac e, EPS will prod gen bromide. owder or carbor GADE, ADVISE T	on persists, seek med overcome by fumes, assistance. t with flame or expos uce carbon monoxide n dioxide.	ical advice. remove the perso sure to high e and carbon
ne skin. Seek immediate med ye contact: Rinse eye with cl moke inhalation: In the unlik o an area of clean air. In ext ECTION 5: Firefighting meas PS is not classed as flammable emperatures (see Section 9). Decific hazards: When subjection ioxide. FRA versions will release tinguishing Media: Water sp TIT IS NECESSARY TO CALL THE WOLVED. ECTION 6: Accidental release	ical attent ean water reme cases ures e, but will ected to fir ease hydrog oray, dry po HE FIRE BRI e measure	ion. If any irritation that someone is seek medical a burn on contac e, EPS will prod gen bromide. owder or carbor GADE, ADVISE T	on persists, seek med overcome by fumes, assistance. t with flame or expos uce carbon monoxide n dioxide. HEM THAT EXPANDED	ical advice. remove the perso sure to high e and carbon
ne skin. Seek immediate med ye contact: Rinse eye with cl moke inhalation: In the unlik o an area of clean air. In ext ECTION 5: Firefighting meas PS is not classed as flammabl emperatures (see Section 9). pecific hazards: When subje ioxide. FRA versions will rele	ical attent lean water reme cases ures e, but will ected to fir ease hydrog oray, dry po IE FIRE BRI <u>e measure</u> leases no h	ion. If any irritation that someone is seek medical a burn on contac e, EPS will prod gen bromide. owder or carbor GADE, ADVISE T s	on persists, seek med overcome by fumes, assistance. t with flame or expos uce carbon monoxide n dioxide. HEM THAT EXPANDED	ical advice. remove the perso sure to high e and carbon

EPS is a CFC and HCFC free material and is physically and chemically inert. It contains no known biological or physiological irritant.

Est. 1986

Stockpiles must be sited well away and protected from any likely cause of ignition or fire hazard. Additionally, stockpiles of EPS must be at least 20m apart, each containing no more than 60m<sup>3</sup> (approx. 1 tonne) of material. Protect from direct sunlight if exposure is likely to exceed one week. In high winds ensure EPS material is secured to prevent material from being blown around site.

### SECTION 8: Exposure controls/personal protection

Further protection required when handling expanded polystyrene other than measures stated in Section 2, should not normally be required. However the end user may wish to undertake a risk assessment when interacting with EPS.

### SECTION 9: Physical and chemical properties

Physical state: Cellular Foam Form: Solid blocks / cut pieces Colour: White Density: 10 Kg/m<sup>3</sup> - 55Kg/m<sup>3</sup> Solubility in water: Not Soluble Solubility in other solvents: Soluble in aromatic, halogenated solvents and ketones Softening point: 95°C Ignition temperature in air: 285°C

### SECTION 10: Stability and reactivity

**Stability:** EPS is stable under normal conditions and decomposes above 200 °C **Conditions to avoid:** Heat, flames and sparks. Strong sunlight for prolonged periods. **Hazardous decomposition products:** Styrene Monomer, Carbon Monoxide, Carbon Dioxide, when burned FRA grades will emit Hydrogen Bromide.

### SECTION 11: Toxicological information

Expanded Polystyrene is non-toxic and not irritating to the skin and eyes.

SECTION 12: Ecological information

The product is non-biodegradable. Small particles may have an effect on aquatic organisms.

### SECTION 13: Disposal considerations

The product should be recovered or recycled if possible using a registered re-cycler. Scrap polystyrene may be disposed of at suitable land fill sites or by incineration under approved conditions. The Local Authority Waste Disposal Officer should be contacted for advice on the correct method to be used. Unofficial dumping or incineration of polystyrene waste is not recommended.

SECTION 14: Transport information

EPS products may contain residual amounts of pentane so good ventilation should be provided during transportation.

Controls against exposure to ignition sources should be enforced whilst transporting, loading and unloading.

Est. 1986

### SECTION 15: Regulatory information

Fire retardant grades may contain hexabromocyclododecane above 0.1% (w/w), which is on the candidate list for authorisation established in accordance with article 59.1.

SECTION 16: Other information

Safety Data Sheet Distribution -This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation, responsible for advising on safety matters.