

**SAFETY DATA SHEET**  
**SDS Polyfoam High Impact and Upstand Board**  
**Polystyrene Foam Board Laminated with Fibre Reinforced cement board**

**1. IDENTIFICATION**

Extruded Polystyrene Foam (XPS) laminated on one side with fibre reinforced cement board. For use as a construction board.

**2. COMPOSITION**

Polystyrene: with colouring, HFC gaseous blowing agent and 1% wt/wt Hexabromocyclodecane flame retardant added during manufacture.  
 Cement board mainly Portland cement, ground sand with treated cellulose fibres as reinforcement

Hazardous constituents					
<b>Component</b>	Portland Cement (cured)	Quartz	Flame retardant	Blowing agent	Blowing agent
<b>EINECS No.</b>	266-043-4	238-878-4	221-695-9	212-377-0	200-866-1
<b>CAS No</b>	65997-15-1	14808-60-7	3194-55-6	811-97-2	75-37-6
<b>% by weight Classification*</b>	22-45%	15-45%	0.04%	<0.4%	<0.4%
<b>* see Section 3 for full text</b>					

**3. HAZARD IDENTIFICATION**

Not classified as hazardous

**INHALATION:**

Cutting the product may create airborne dust. High dust levels may irritate the skin and eyes. There is some risk that fine dust generated during the cutting of the product may contain respirable quartz particles, arising from the cement backing. Long term exposure to respirable quartz dust can cause silicosis – a serious lung disease. Respirable quartz can also cause lung cancer.

**SKIN CONTACT:**

Dust generated during the cutting of the product may cause some mechanical irritation. Contact with molten foam produced during heating of the product to a temperature above the melting point of the foam can cause thermal burns.

**EYE CONTACT:**

High dust levels generated from the cement coating during cutting may cause eye irritation.

**INGESTION:**

Should not occur under normal circumstances.

**4. FIRST AID MEASURES**

**INHALATION:**

Move person to fresh air.

**SKIN:**

If irritation occurs, wash skin with soap and water. If in contact with molten foam material treat area immediately with cold water and seek medical attention. Do not attempt to remove any molten or solidified material from the skin.

**EYES:**

If dust particles enter the eye wash with water. Seek medical advice.

**INGESTION:**

Seek medical advice if accidentally ingested. If any adverse reaction or discomfort continues from any of the above exposures, seek medical advice.

**5. FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media** - water, foam, carbon dioxide or dry powder.

**Products of combustion from foam** – The foam is combustible and will generate gases normally associated with combustion of organic hydrocarbons and should be considered toxic. Combustion products will include carbon dioxide, carbon monoxide and hydrogen bromide. Dense smoke will be generated and suitable breathing apparatus should be worn when fighting fires.

## 6. ACCIDENTAL RELEASE MEASURES

Large pieces may be placed in plastic bags or waste bins. Dust should be collected using vacuum cleaning or by damping down with water spray prior to brushing up. Minimise exposure to dust. See section 8 for recommended personal protection measures.

## 7. HANDLING AND STORAGE

Avoid unnecessary handling of product. Store in original packaging in a dry place. Do not store near sources of heat. Prevent prolonged exposure to sunlight. Keep work areas clean. Use water sprays to dampen area prior to brushing, or use vacuum cleaning.

When installing the product, be aware of strong winds, particularly when working at height

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

### Occupational exposure limits

Substance	Quartz (respirable crystalline silica)	Total inhalable dust
Type of limit	MEL	
Long term limit (8 hour TWA)	-	-
Short term limit (15 minute TWA)	0.3 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Sampling methods	-	-
	MDHS 14/3, 37, 38, 51/2, 76	MDHS 14/3

### Notes:

TWA = time weighted average exposure

MEL = Maximum exposure limit

OES = Occupational exposure standard

OEL = Occupational exposure limit

MDHS = Methods for the Determination of Hazardous Substances

For product used in its intended application and with account taken of the guidance given in this document, it is unlikely that these exposure limits will be exceeded.

<sup>1</sup> See UK Health and Safety Executive Chemical Hazard Alert Notice 35

**Engineering controls:** Avoid cutting the material with power tools which will generate dust which may contain respirable particles of quartz. *The preferred cutting method is to score with a knife and then snap the material. Alternatively, hand tools should be used.* If cutting is carried out using other methods, provide properly designed local extraction.

**Respiratory protection:** If high dust levels are generated during cutting, a suitable particulate respirator should be worn – either a filtering facepiece mask (FFP2 or FFP3) or a non-disposable mask fitted with a P2 or P3 filter.

**Eye protection:** When cutting or processing the use of eye protection to BS EN 166 is advised.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b> -	Rigid closed cell plastic foam usually orange in colour, with smooth cement upper surface which has a creamy grey appearance. Supplied as boards.
<b>Odour</b> -	Odourless.
<b>Melting point</b> -	Above 110°C.
<b>Flash point</b> -	Above 300 °C
<b>Solubility</b> -	Insoluble in water. Foam soluble in organic solvents.
<b>pH cement surface</b> -	10 -12
<b>Cement surface dry density</b> -	1250 – 1400 kg/m <sup>3</sup>

## 10. STABILITY AND REACTIVITY

Stable under normal conditions of use.

The foam is resistant to many chemicals but not to solvents. Care should be taken in the choice of adhesives to be used with the foam. Avoid exposure to heat and flames and prolonged exposure to sunlight.

Decomposition products – fumes from molten material and smoke from fires involving the foam can contain toxic gases such as carbon dioxide, carbon monoxide and hydrogen bromide.

## 11. TOXICOLOGICAL INFORMATION

### Immediate Hazards

Exposure to dust produced when cutting the product can cause skin, eye and respiratory irritation.

Irritant and toxic gases can be evolved if the foam is subjected to excessive heat or during a fire.

### Delayed Hazards

Fine dust generated during the cutting of the material may contain respirable particles of quartz. Long term exposure to respirable quartz dust can cause silicosis.

### Sensitisation

No information available on the product.

### Carcinogenicity

Fine dust generated during the cutting of the material may contain respirable particles of quartz. Exposure to respirable quartz dust has been associated with lung cancer – IARC group 1 (IARC monograph 68, 1997)

### Reproductive toxicity

No information available on the product.

## 12. ECOLOGICAL INFORMATION

Product is not biodegradable and has no known adverse environmental effects. It is free of HCFC blowing agents and complies with EU Regulation EC/3093/94 on substances which deplete the ozone layer.

## 13. DISPOSAL CONSIDERATIONS

No special precautions.

## 14. TRANSPORT INFORMATION

Not classified as hazardous for transportation.

## 15. REGULATORY INFORMATION

Not classified as hazardous.

Avoid contact with skin and eyes (S24/25)

In case of contact with eyes rinse immediately with plenty of water and seek medical advice (S28)

Wear suitable protective clothing and gloves (S36/37)

## 16. OTHER INFORMATION

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

HSE Guidance Note EH40: Occupational Exposure Limits.

This data sheet does not constitute a workplace risk assessment for COSHH.

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