



Version	1.02
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## Polyfoam

Extruded Polystyrene (XPS)

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Generic product name** : Polyfoam - Extruded Polystyrene Foam (XPS) for insulation

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** : Insulation / building material

### 1.3. Details of the supplier of the safety data sheet

**Producer** : **Knauf Insulation**  
Head Office,  
Am Bahnhof  
97346 Iphofen  
Germany  
Web: [www.knaufinsulation.com](http://www.knaufinsulation.com)

Region	Contact	Telephone number	Email
UK	Head Office Country Contact	+32 (0) 10488460 +44 (0) 1744 766 666	<a href="mailto:sds@knaufinsulation.com">sds@knaufinsulation.com</a> <a href="mailto:chris.roughneen@knaufinsulation.com">chris.roughneen@knaufinsulation.com</a>

### 1.4. Emergency telephone number

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**European directive 67/548/EEC** : The product is not classified.

**Regulation (CE) n° 1272/2008** : The product is not classified.

**2.2. Label elements** : None

### 2.3. Other hazards

**Most important hazards** : Polystyrene melts at high temperature and molten droplets may cause skin burns.

**Specific hazards** : Non hazardous in finished form. Residual quantities of process chemicals, styrene and blowing agents are insignificant. The product is organic and therefore combustible if exposed to intense heat or a fire.

### 3. COMPOSITION / INFORMATION on INGREDIENTS

Substance	C.A.S. number <sup>(2)</sup>	weight (%)	Classification and labelling (Regulation (CE) n° 1272/2008)	Classification and labelling (European directive 67/548/EEC as amended 97/69/EC)	EC number
Polystyrene with colouring <sup>(1)</sup>	9003-53-6		Not Classified	Not Classified	500-008-9
Hexabromocyclododecane (HBCD) flame retardant <sup>(3)</sup>	3194-55-6	< 0.1%		R50/53	221-695-9

<sup>(1)</sup>: Extruded Polystyrene Foam (XPS)

<sup>(2)</sup>: C.A.S. : Chemical Abstract Service

<sup>(3)</sup>: The ingredients are bound in the polymatrix. Because they are encapsulated in the matrix, they are not expected to create any unusual hazards when handled and processed according to good manufacturing and industrial hygiene practises and the guidelines provided in this SDS.

**Possible facing materials:** polyethylene film

**Extruded Polystyrene Foam (XPS) REACH Registration number:** not applicable

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### Exposure route:

- **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** : After use, wash with soap and water. 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. If any irritation symptoms persist seek medical advice
- **Ingestion** : Drink plenty of water if accidentally ingested.

#### 4.2 Most important symptoms and effects, both acute and delayed

Polystyrene melts at high temperature and molten droplets may cause skin burns.

#### 4.3. Indication of any immediate medical attention and special treatment needed

If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguishing media** : Water, foam, carbon dioxide (CO<sub>2</sub>) and dry powder.

### 5.2. Special hazards arising from the substance or mixture

: Those normally associated with combustion of organic hydrocarbons and should be considered toxic. Will include carbon monoxide, carbon dioxide and hydrogen bromide.

### 5.3. Advice for firefighters

: Dense smoke will be generated and suitable breathing apparatus should be worn when fighting fires.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** : The product is in solid form and poses no hazard.

### 6.2. Environmental precautions

**Environmental protection** : The product is in solid form and poses no hazard.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** : n/a

### 6.4. Reference to other sections

: For waste disposal, see section 13.

## 7. HANDLING and STORAGE

### 7.1. Precautions for safe handling

- **Technical measures** : Hand cutting tools should be used when possible. If using power tools, suitable dust extraction should be used and/or respiratory and eye protection.

- **Precautions** : When cutting, ensure adequate ventilation of workplace is available.  
: Be aware of strong winds especially at working at heights.

- **Safe handling advice** : No special requirements.

### 7.2. Conditions for safe storage, including any incompatibilities

- **Technical measures** : Avoid exposure to heat, flames and other ignition sources.

- **Suitable storage condition** : Do not store near to any sources of heat. Avoid prolonged exposure to sunlight.

- **Incompatible materials** : Resistant to many chemicals but not to solvents. Care should be taken in choice of adhesives used.

- **Packaging material** : Delivered on pallets or XPS kickers, packed in polyethylene film or open.

### 7.3. Specific end use(s)

: not relevant

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

**Exposure Limit Value** : None at European level, refer to member state guidelines and legislation:-  
UK: Not relevant.

### 8.2. Exposure controls

**Engineering controls** : No specific requirements

#### Individual protection equipments:

- **Respiratory protection** : Wearing a disposable face mask type in accordance with EN 149 FFP1 or FFP2 is recommended to improve comfort.
- **Hand protection** : No special precautions but gloves may be worn for comfort.
- **Eye protection** : Goggles especially if cutting with power tools or working above shoulders. Eye protection to EN 166 is advised.
- **Skin protection** : None
- **Hygiene measures** : After contact, wash hands with cold water and soap.

## 9. PHYSICAL and CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**Physical state** : Solid

**Form** : Panel

**Colour** : Normally orange

**Odour** : Odourless

**pH** : Not relevant

**Boiling point** : Not relevant

**Flash point** : Above 300 °C

**Flammability** : Not relevant

**Explosive properties** : Not relevant

**Density** : Nominal 32kg/m<sup>3</sup>

**Water solubility** : Insoluble in water and generally chemically inert.  
: Soluble in organic solvents.

**Fat solubility** : Not applicable

## 10. STABILITY and REACTIVITY

10.1. Reactivity	: None.
10.2. Chemical Stability	: Stable under normal conditions of use. : Resistant to many chemicals but not to solvents. Care should be taken in choices of adhesives.
10.3. Possibility of hazardous reactions	: None in normal conditions of use
10.4. Conditions to avoid	: Heating above 110°C.
10.5. Incompatible materials	: None.
10.6. Hazardous decomposition products	: Decomposition of foam above 110°C produces fumes from molten material and smoke may produce toxic gases such as carbon monoxide, carbon dioxide and hydrogen bromide. The duration of release is dependant upon the thickness of the foam, and the temperature applied.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute effect</b>	: Extruded polystyrene is non-toxic and not irritating to the skin or eyes in its solid form. : Dust can be irritating to eyes – please refer to section 7.1
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## 12. ECOLOGICAL INFORMATION

12.1. Toxicity	: Not expected to be toxic to aquatic organisms in its solid state.
12.2. Persistence and degradability	: The product will surface degrade with prolonged exposure to sunlight. No significant biodegradation is expected.
12.3. Bioaccumulative potential	: The product is not expected to bioaccumulate.
12.4. Mobility in soil	: The product is inert.
12.5. Results of PBT and vPvB assessment	: No data available.
12.6. Other adverse effects	: No data available.

The products contain a substance which is classified as dangerous for the environment. However recent studies on aquatic organisms have shown that articles such as extruded polystyrene foams, while containing this substance, do not need to be classified for environmental hazard.

### **Polyfoam**

Are free of HCFC blowing agents and complies with EU Regulation EC/1005/2009 on substances, which deplete the ozone layer.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

<b>Waste from residues</b>	: Dispose of in accordance with regulations and procedures in force in country of use or disposal.
<b>Dirty packaging</b>	: Dispose of in accordance with regulations and procedures in force in country of use or disposal.
<b>European waste catalogue code</b>	: 07.02.13, non hazardous.

## 14. TRANSPORT INFORMATION

14.1. UN number	: not classified for transport
14.2. UN proper shipping name	: not classified for transport
14.3. Transport hazard class(es)	: not classified for transport
14.4. Packing group	: not classified for transport
14.5. Environmental hazards	: not classified for transport
14.6. Special precautions for user	: not classified for transport
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	: not classified for transport

## 15. REGULATORY INFORMATION

### 15.1. 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 1<sup>st</sup> 2007 requires the provision of Safety Data Sheet (SDS) for hazardous substances and mixtures / preparations.

Knauf Insulation extruded foam products (panels), are defined as articles under REACH and therefore a Safety Data Sheet for these products is not a legal requirement.

This product contains Hexabromocyclododecane (HBCD) below 0.1% (w/w).

In accordance with industry practice and voluntary commitments, Knauf Insulation has decided to continue to provide its customers with the appropriate information for the purpose of assuring safe handling and use of extruded polystyrene foam throughout the product life.

This material Safety data sheet is in accordance with the EU directives 67/548/EEC, 1999/45/EEC, 1907/2006, 1272/2008 and 453/2010.

15.2. Chemical safety assessment : not relevant.

## 16. OTHER INFORMATION

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

### Symbols and R-Phrases from Section 3:

R50/53: Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

The ingredients are bound in the polymatrix. Because they are encapsulated in the matrix, they are not expected to create any unusual hazards when handled and processed according to good manufacturing and industrial hygiene practises and the guidelines provided in this SDS.

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This Safety Data Sheet does not constitute a workplace assessment

Information contained in this document represents the state of our knowledge regarding this product as of the date of issue of the document. Attention of users is drawn to possible risks taken when the product is used for other applications than the ones it has been designed for.

## Product Families

- Space Board

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