

Environmental Datasheet

October 2018

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Polyfoam XPS
Product material Closed-cell, Extruded Polystyrene Foam
Products Polyfoam Standard
Polyfoam Extra
Polyfoam Laminating Board

1.2. Material/Product Application Insulation Material

1.3. Manufacturer and Supplier Identification

Manufacturer
Name Polyfoam XPS Limited
Address Hunter House Industrial Estate
Place-name Hartlepool
Postcode TS25 2BE
Country United Kingdom
Telephone 01429 855100
E-mail technical@polyfoamxps.co.uk

2. Hazards Identification

2.1. Classification of the substance or mixture

This product is defined by REACH regulation as:
Not a hazardous substance

Safety advice Warning materials H and EUH phrases
H242 Heating may cause a fire.

Precautionary P phrases

P210 Do not handle until all safety precautions
have been read and understood
P261 Avoid breathing dust/fume/gas/mist/
vapours/spray

2.2. Labelling

Based on 1272/2008/EC of the European Parliament and
of the Council, the product does not contain any hazardous
ingredients.

2.3. Other hazards

The product has no other known health or environmental
effects.

3. Composition/information of ingredients

Based on 1272/2008/EC of the European Parliament and of the Council, the ingredients are not hazardous.

PolyFoam™ XPS

4. First-aid measures

Mechanical cutting can cause formation of dusts.

4.1. Description of first aid measures

Skin contact	Does not irritate skin, small parts can be removed from skin easily. Does not require special treatment.	Ingestion	No significant health hazards identified. Does not require special treatment.
Eye contact	If dust particles enter the eye, it can be removed by flushing eyes thoroughly with water for 1-2 minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for 1-2 additional minutes. If any irritation symptoms persist seek medical advice.	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.

5. Fire Fighting Measures

Classification of Fire Protection	Flammable	In case of fire, inhalation of combustion products must be avoided.
Classification of Fire Hazard	Flammable (solid combustible material)	

Polyfoam XPS has been tested to BS EN 13501-1 and has a reaction to fire of Euroclass F.

5.1. Inoculum / Extinguishing Media

Dry chemical fire extinguisher. Carbon dioxide fire extinguisher. Foam. Water spray. Water fog.
The used extinguishing media cannot contaminate the sewage system and surface water flows

5.2. Special hazard from product/material

Hazardous combustion products: hydrocarbons, lower molecular acids (e.g. acetic acid) in traces hydrogen bromide (irritant), carbon monoxide, carbon dioxide (drug), carbon black.

5.3. Recommendation for firefighters

While extinguishing it is important to remove the source of ignition, to reduce the temperature. The combustion products occurs only at high temperatures, so full protective clothing (full firefighting clothing) and external breathing apparatus with independent air supply is required.

PolyFoam™ XPS

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

The product is in solid form and poses no hazard.

6.2. Environmental precautions

The product is in solid form and poses no hazard.

6.3. Containment and decontamination methods and materials

No special provisions are required, product should be collected and stored as non-hazardous waste.

7. Handling and Storage

7.1. Precautions for safe handling

No special treatment is needed in case of professional usage.

Mechanical cutting, grinding or sawing can cause formation of dusts.

Avoid volatile organic compounds and chemicals such as solvents.

Keep away from open flames and heat.

7.2. Conditions for safe storage

Boards must be stored flat, off the ground on a clean, level surface and under cover to protect them from high winds.

They must not be exposed to open flame or other ignition sources.

Polyfoam XPS should not be left exposed to prolonged sunlight as this will result in surface degradation. When outside storage for extended periods is required cover the products with opaque/light coloured sheeting.

8. Exposure Controls / Personal Protection

8.1. Exposure Limits

Exposure Limits	Not established in Europe
Conditions for safe	No special treatment

Hand protection

Use gloves to protect from mechanical injury.

Eye protection

No special protection needed, in case of dust formation safety glasses need to be used.

8.2. Exposure Control

When dust is generated, personal protection against dust is needed.

Inhalation respiratory protection	With appropriate respiratory protective equipment dust inhalation needs to be avoided.
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Ingestion

No special protection needed, in the event of dust formation a safety mask needs to be used.

Skin protection	No special protection needed.
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9. Physical and Chemical Properties

9.1. Information for basic physical and chemical properties

Physical State	Solid, board packages
Colour	Orange
Odour	Odourless
Odour threshold	Not applicable because it is odorless
pH	Not relevant because it is solid
melting / freezing point	240°C
Initial boiling point and range	Not applicable because of decomposition above the melting point ranges
Flash point	>300 °C
Evaporation rate	Not applicable, it is solid
Vapour pressure	Not relevant, it decomposes range above the melting point
Vapour density	Not relevant, it decomposes range above the melting point
Relative density (water=1)	1,04-1,13
Solubility, partition coefficient: n-octanol water	Insoluble in water and generally chemically inert. Soluble in organic solvents.
Auto-ignition temperature	491 °C
Decomposition Temperature	345-360 °C
Viscosity	Not relevant. Because it is solid
Explosive properties	Not relevant.
Oxidising properties	Not relevant.

9.2. Other information

Softening temperature	85 °C
Density	28-36 kg/m ³
Moisture absorption	0,2-1,0 m/m%

10. Stability and Reactivity

10.1. Reactivity

Resistant to acid, alkali. Solvent in most of organic solvents.

10.2. Chemical stability

Product is stable, does not decompose.

10.3. Possible hazardous reactions

Product used as insulation material no hazardous reaction occurs.

10.4. Situations to avoid

Direct exposure to sunlight, heating above 110°C, or flammable environment, the proximity of potential ignition sources should be avoided.

10.5. Incompatible Materials

Organic solvents, aldehydes, amines, esters.

10.6. Hazardous Decomposition

Normally product does not decompose.

11. Toxicological Information

11.1. Information about toxicological effects

Acute toxicity

Skin irritation/ corrosion

Serious eye damage/ eye irritation

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Single exposure specific target organ toxicity

Repeated exposure specific target organ toxicity

Aspiration hazard

The material is not required to be registered, therefore it is not classified.

Skin contact

Does not irritate skin.

Eye contact

In dust form it can irritate the eye, small amount of smoke generated via thermal cutting can cause irritation.

Inhalation

In form of dust it can irritate the upper respiratory system, a small amount of smoke generated via thermal cutting can cause irritation.

Ingestion

Accidental ingestion has no harmful effect on health.

12. Ecological Information

12.1. Toxicity

The product is biologically not accumulative. The product does not contain hazardous substances to the environment.

12.2. Persistence and Degradability

No appreciable biodegradation occurs.

12.3. Bioaccumulation Capacity

The product is not bio-accumulate.

12.4. Mobility in soil

The product is solid, inert material, no mobility with moisture.

12.5. Results of PBT and vPvB assessment

The product contains no PBT and vPvB.

13. Disposal Considerations

Waste treatment methods

Recyclable on material As PS required cleaning after re-granulated active, the PS granules of expansible

Energy recovery Only limited incineration plant with flue gas cleaning equipment.

The XPS product, according to the place of use, classifies the XPS waste on the basis of 2000/532/EC Commission's Decision on waste register.

1. The industrial use of XPS product - shaping, machining/ processing - classification of generated waste:

Identification code	Designation
12 01 05	Plastics particles

2. Construction and demolition wastes

Identification code	Designation
17 02 03	Plastic

3. Municipal Waste - separate collection

Identification code	Designation
20 01 39	Plastic

Note

The generated waste should only be transferred to an organisation with a valid license to collect, transport and treat waste.

14. Regulatory Information

14.1. Safety, health and environmental regulations / legislation

The European Regulation on Chemicals No 1907/2006, Registration, Evaluation, Authorisation of Chemicals (REACH) enacted on June 1st 2007 requires the provision of Safety Data Sheet (SDS) for hazardous substances and mixtures / preparations.

Polyfoam XPS extruded foam products (panels), 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, Polyfoam XPS Limited 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 Environmental Datasheet is in accordance with the EU directives 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/

EEC, 93/105/EC and 2000/21/EC.

14.2. Chemical safety assessment (CSA)

Hazard assessment Not a hazardous product

CLP regulation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures,

amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

98/24/EK directive the chemical agents relating to directive 2000/39/EK, 2006/15/EK and

2009/161/EU Guidelines for occupational exposure limits

89/686/EGK Directive relating to personal protective equipment

2006 /12/ EC és 2008/ 98 EC Directive on waste

15. Other information

Information on this safety data sheet relates to the material as it leaves the factory. The customer/ user is responsible for defining and ensuring compliance conditions of the safe use of the product.