



Heraklith® Products
Version 1.01

Heraklith.

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

1.1. Product identifier

Generic product name : Heraklith® Multi-layer Boards with Expanded Polystyrene Foam (EPS)

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

Recommended use : Thermal and/or acoustic insulation

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

Region	Contact	Telephone number	Email
Hungary	Head Office Country Contact	+32 (0)10488460	sds@knaufinsulation.com

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

There are no Risk Phrases associated with this product

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 or INGREDIENTS

3.2. Mixtures					
Substance	C.A.S. number ⁽²⁾	weight (%)	Classification and labelling (Regulation (CE) n° 1272/2008)	Classification and labelling (European directive 67/548/EEC as amended 97/69/EC)	EC number
Wood Spruce ^(1a)	n/a	35 to 45%	-	-	n/a
Bonded with a mineral based cured binder	n/a	25 to 45%	-	-	926-099-9
Expanded Polystyrene (EPS) ^(1b)	9003-53-6	5 to 20%	-	-	500-008-9
Hexabromocyclododecane (HBCD) flame retardant ^(1c)	3194-55-6	<0.1%		R50/53	221-695-9

^(1a): Wood Wool Fibres – A non hazardous ingredient
^(1b): Expanded Polystyrene Foam (EPS)
^(1c): 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.
⁽²⁾: C.A.S. : Chemical Abstract Service

Possible facing materials: n/a

Heraklith® REACH Registration number : not applicable
Expanded Polystyrene Foam (EPS) 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.
- Eyes contact	: If dust particles enter the eye, wash with water and seek medical attention if necessary.
- 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 arises, seek professional medical advice	

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Water, foam, carbon dioxide (CO₂) and dry powder.

5.2. Special hazards arising from the article

: Those normally associated with combustion of organic hydrocarbons and should be considered toxic. Will include carbon monoxide, carbon dioxide and hydrogen bromide. Trace amounts of styrene can also be released. Some packaging materials or facings may be combustible. Products of combustion from product and packaging - carbon dioxide, carbon monoxide and some trace gases such as ammonia, nitrogen oxides and volatile organic substances.

5.3. Advice for firefighters

: Dense smoke will be generated and suitable breathing apparatus should be worn along with full protective clothing when fighting fires.
: Keep adjacent products cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : In case of presence of high concentrations of dust, use the same personal protective equipment as mentioned in section 8.

6.2. Environmental precautions

Environmental protection : not relevant

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Vacuum cleaner or dampen down with water spray prior to brushing up to avoid stirring up dust.

6.4. Reference to other sections

: For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING and STORAGE

7.1. Precautions for safe handling

- **Technical measures** : No specific measure. Cut using a table saw, jack saw or a circular saw. Suitable dust extraction should be used and/or respiratory and eye protection.
- **Precautions** : Always work with a safety guard, guide and an extraction system to ensure adequate ventilation of the workplace.
- **Safe handling advice** : none

7.2. Conditions for safe storage, including any incompatibilities

- **Technical measures** : Avoid exposure to heat, flames and other ignition sources.
- **Suitable storage condition** : Panels must be stored flat and stably in a dry, clean, swept-out room to protect them from moisture, soiling and dust. Do not store near to any sources of heat or ignition. Avoid prolonged exposure to sunlight.
- **In-compatible materials** : Resistant to many chemicals but not to solvents. Care should be taken in choice of adhesives used.
- **Packaging material** : Delivered on pallets packed in foil, edge protection, card board cover (mostly) and packaging stripes.

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.

Hungary: Refer to local legislation.

8.2. Exposure controls

Engineering controls : No specific requirements

Individual protection equipment:

- **Respiratory protection** : Wearing a face mask type in accordance with EN 149 FFP1 is recommended when using products in confined atmosphere or during operations which can generate emission of any dust.
- **Hand protection** : Wear suitable gloves (leather)
- **Eyes protection** : Goggles especially if dust levels are high or working above shoulders. Eye protection to EN 166 is advised
- **Skin protection** : None
- **Hygiene measures** : n/a

9. PHYSICAL and CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Form	: Board/Panel
Colour	: Wood wool – Beige, grey or coloured : EPS Core – Either white or grey (with or without UV absorbers)
Odour	: n/a
Boiling point	: n/a
Melting point	: 100 °C (EPS)
Flash point	: n/a
Flammability	: E or B according to EN 13501
Ignition temperature	: 370 °C (EPS)
Self-igniting	: 450 °C (EPS)
Oxidising properties	: n/a
Explosion hazard	: n/a
Vapour pressure	: n/a
Density	: Wood wool 500 to 800 kg/m ³ : EPS up to 30 kg/m ³
pH	: Wood wool (at 1000 g / l H ₂ O) (25 °C) 8.5 to 10 : EPS – not relevant
Solvent content	: n/a
Dynamic viscosity	: n/a

10. STABILITY and REACTIVITY

10.1. Reactivity	: None
10.2. Thermal Stability	: Product will thermally decompose above > 100 °C : 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 100 °C. Ignition sources, solvents and prolonged sunlight.
10.5. Incompatible materials	: None.
10.6. Hazardous decomposition products	: None in normal condition of use. Thermally decompose, catches fire & decomposition of foam above 100 °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 dependent upon the thickness of the foam, and the temperature applied.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute effect	: Expanded polystyrene is non-toxic and not irritating to the skin or eyes. : Wood Dust can be irritating to eyes – please refer to section 7.1
Carcinogenic effect	: None

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	: Will not bio-accumulate.
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 expanded polystyrene foams, while containing this substance, do not need to be classified for environmental hazard.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues	: Dispose of in accordance with regulations and procedures in force in country of use or disposal.
Dirty packaging	: Dispose of in accordance with regulations and procedures in force in country of use or disposal.
European waste catalogue code	: 19 12 10
Additional information	: The residues are in a finely divided form as structural materials in composting

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

Heraklith® products (panels, boards), are defined as articles under REACH and therefore a safety data sheet for these products is not a legal requirement.

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

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

In accordance with industry practice and voluntary commitments, Heraklith® has decided to continue to provide its customers with the appropriate information for the purpose of assuring safe handling and use of wood wool throughout the product life.

This material safety data sheet / product data sheet is produced in accordance with principles outlined in 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.

Heraklith® is a registered trade mark of Knauf Insulation

Further information can be obtained from:-

www.knaufinsulation.com

Version: 1.01

Document revised: 10/05/2013, new document format

Date of previous revisions: 09/05/2013

This safety data sheet / product 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.

MORE INFORMATION

Product Families

- Heratekta C3
- Heratekta C3 F
- Heratekta C2
- Heratekta C2 F
- Heratekta C2 031
- Heratekta C2 031 F

Knauf Insulation Sprl
Rue E. Francqui 1
1435 Mont-St-Guibert / Belgium
Tel: +32 (0)10 48 84 78
info@heraklith.com
www.heraklith.com

Heraklith® is a registered trademark of

KNAUFINSULATION

All rights reserved, including those of photomechanical reproduction and storage in electronic media. Commercial use of the processes and work activities presented in this document is not permitted. Extreme caution was observed when putting together the information, texts and illustrations in this document. Nevertheless, errors cannot quite be ruled out. The publisher and editors cannot assume legal responsibility or any liability whatever for incorrect information and the consequences thereof. The publisher and editors will be grateful for improvement suggestions and details of errors pointed out.