



Heraklith[®]
Version 4.0

Heraklith.



SAFETY DATA SHEET

Heraklith® Multilayer Boards with Expanded Polystyrene Foam

According to Regulation (EC) No 1907/2006, Annex II, as amended., Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Heraklith® Multilayer Boards with Expanded Polystyrene Foam
Product number KI_DP_403

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

Identified uses Thermal and/or acoustic insulation

1.3. Details of the supplier of the safety data sheet

Supplier Knauf Insulation
Am Bahnhof
97346 Iphofen
Germany
+32 4 379 02 31
www.knaufinsulation.com
sds@knaufinsulation.com

Region Liechtenstein

1.4. Emergency telephone number

Emergency telephone Tel: +32 4 379 02 31
(Monday - Friday, 08:00 hrs - 17:00 hrs)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

2.3. Other hazards

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

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Wood Spruce	35 - 45%
CAS number: —	
Ingredient notes:(1a)	
Classification	
Not Classified	
Bonded with a mineral based cured binder	25 - 45%
CAS number: —	
Classification	
Not Classified	
Expanded Polystyrene (EPS)	5 - 20%
CAS number: 9003-53-6	EC number: 500-008-9
Ingredient notes:(2)	
Classification	
Not Classified	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Ingredient notes

- (1a) Wood Wool - a non hazardous ingredient
 (2) Expanded Polystyrene Foam (EPS)
 (3) 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.
 CAS: Chemical Abstracts Service.

Other information

Possible facing materials: n/a.
 Heraklith® REACH Registration number: Not applicable.
 Expanded Polystyrene Foam (EPS) REACH Registration number: Not applicable.

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SECTION 4: First aid measures

4.1. Description of first aid measures

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.
Ingestion	Drink plenty of water if accidentally ingested.
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.

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

General information	Polystyrene melts at high temperature and molten droplets may cause skin burns.
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4.3. Indication of any immediate medical attention and special treatment needed

General information	If any adverse reaction or discomfort arises, seek professional medical advice.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water, foam, carbon dioxide (CO ₂), and dry powder.
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5.2. Special hazards arising from the substance or mixture

General information	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.
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5.3. Advice for firefighters

General information	Dense smoke will be generated and suitable breathing apparatus should be worn when fighting fires.
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SECTION 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.
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6.2. Environmental precautions

Environmental precautions	Not relevant.
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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.
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6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Cut using a table saw, jack saw or a circular saw. Suitable dust extraction should be used and/or respiratory, eye and skin protection. Always work with a safety guard, guide and an extraction system to ensure adequate ventilation of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Avoid heat, flames and other sources of ignition.
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. Avoid prolonged exposure to sunlight.
Delivered on pallets packed in foil, edge protection, card board cover and packaging stripes.

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

7.3. Specific end use(s)

Specific end use(s) Thermal and/or acoustic insulation

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Refer to local legislation.

8.2. Exposure controls

Appropriate engineering controls No specific measures.

Eye/face protection Goggles especially if dust levels are high or working above shoulders. Eye protection to EN 166 is advised.

Hand protection Wear protective gloves. Leather.

Other skin and body protection None.

Hygiene measures Not applicable.

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.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Solid. Board/Panel
Colour	Wood Wool - Beige, grey or coloured EPS Core - Either white or grey (with or without UV absorbers).
Odour	Not applicable.
Odour threshold	No data available.
pH	Wood Wool - 8.5 - 10 (@ 1000g/l H ₂ O, 25°C) EPS Core - Not relevant.
Melting point	100°C (EPS)
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	E or B according to EN 13501
Upper/lower flammability or explosive limits	Not applicable.
Vapour density	Not applicable.
Relative density	Wood Wool - 500 - 800 kg/m ³ EPS Core - < 30 kg/m ³
Solubility(ies)	Not applicable.
Auto-ignition temperature	450°C (EPS)
Decomposition Temperature	Not applicable.
Viscosity	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

9.2. Other information

Other information	None.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity None.

10.2. Chemical stability

Stability Product will thermally decompose above 100°C Resistant to many chemicals but not to solvents. Care should be taken in choice of adhesives used.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None in normal conditions of use.

10.4. Conditions to avoid

Conditions to avoid Heating above 100°C Ignition sources, solvents and prolonged sunlight.

10.5. Incompatible materials

Materials to avoid None.

10.6. Hazardous decomposition products

Hazardous decomposition products None in normal conditions of use. Thermally decomposes, catches fire & decomposition of foam above 100°C produce 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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Expanded polystyrene is non-toxic and not irritating to the skin or eyes.

Carcinogenicity

Carcinogenicity None. Classification not applicable for this product

Eye contact

Wood Dust can be irritating to eyes – please refer to section 7.1.

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SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Not expected to be toxic to aquatic organisms in its solid state.

12.2. Persistence and degradability

Persistence and degradability The product will surface degrade with prolonged exposure to sunlight. No significant biodegradation is expected.

12.3. Bioaccumulative potential

Bioaccumulative potential Will not bioaccumulate.

12.4. Mobility in soil

Mobility The product is inert.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

Other adverse effects No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information [19 12 10] Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
The residues are in a finely divided form as structural materials in composting.

Disposal methods Dispose of in accordance with regulations and procedures in force in country of use or disposal.

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SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

None known.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not relevant.

Annex II of MARPOL 73/78

and the IBC Code

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
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 (as amended).

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. Heraklith® products (panels, boards) 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, 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.

15.2. Chemical safety assessment

Not relevant.

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SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<p>ATE: Acute Toxicity Estimate.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>CAS: Chemical Abstracts Service.</p> <p>IARC: International Agency for Research on Cancer.</p> <p>IATA: International Air Transport Association.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>UN: United Nations.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
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General information	<p>Heraklith® is a registered trade mark of Knauf Insulation.</p> <p>If using adhesives with this product follow the adhesive manufacturer's instructions carefully. 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.</p>
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Further information can be obtained from

www.heraklith.com

Further product information can be obtained from	info@heraklith.com
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Revision	4.0
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Supersedes date	10/06/2016
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SDS number	4726
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Product Families	Heratekta C
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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.