

Section 1: Identification of the substance / mixture and identification of the company / undertaking**1.1 Product identifier**Trade name: **EPS FACADE, ROOF/FLOOR, PARKING/FOUNDATIONS panels (HBCDD-free)****1.2 Relevant identified uses of the substance or mixture and uses which are advised against**Identified applications: thermal insulation in the construction industryUses advised against: not specified.**1.3 Details of the supplier of the safety data sheet**Supplier: **ENERPOR Sp z o.o**

Address: ul. Kolberga 11, 25-620 Kielce, Poland

Telephone: +48 510 833 455

Email address of the person responsible for the safety data sheet: biuro@theta-doradztwo.pl

1.4 Emergency telephone number

112 (general emergency number), 998 (fire brigade), 999 (medical emergency services)

Section 2: Identification of hazards**2.1 Classification of the substance or mixture**

According to Article 2 of the CLP Regulation, the item is defined as a product and does not require classification.

2.2 Labelling elements

According to Article 2 of the CLP Regulation, the item is defined as a product and does not require labelling.

2.3 Other hazards

Freshly produced polystyrene foam may release a foaming agent - residual pentane, which may form explosive mixtures with air in closed spaces, e.g. during transport and storage.

Section 3: Composition / information on ingredients**3.1 Substances**

Not applicable.

3.2 Mixtures

| | | |
|---|--|---------|
| CAS: 9003-53-6 WE: Index number: - Relevant registration number: - | <u>polystyrene</u> the substance is not classified as hazardous | 80-95 % |
| CAS: 109-66-0 WE: 203-692-4 index number: - 601-006-00-1 Relevant registration number: - | <u>pentane</u> ¹⁾ Flam. Liq. 2 H225, Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH0662) | < 7% * |
| CAS: 78-78-4 WE: 201-142-8 Index number: 601-085-00-2 Relevant registration number: | <u>isopentane</u> ¹⁾ Flam. Liq. 1 H224, Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066 ²⁾ | < 7% * |

1) Substance with a national occupational exposure limit.

*The total content of components with CAS number 109-66-0 and 78-78-4 is < 7%.

The product additionally contains brominated polymers (brominated flame retardants) in a concentration < 1%, which are not classified as hazardous.

The full text of H phrases is quoted in section 16 of the data sheet.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: Wash contaminated parts of skin thoroughly with soap and water. Consult a physician if you have any alarming symptoms.

Eye contact: exposure by this route usually does not occur. However, in case of sharp fragments entering the eye, rinse thoroughly with plenty of water or saline solution, e.g. 0.9% NaCl or 5% glucose solution. Consult a physician immediately.

Ingestion: Exposure by this route usually does not occur. If swallowed, rinse mouth with water, do not induce vomiting. Consult a physician immediately.

After inhalation exposure: Move affected person to fresh air, keep them warm and calm. Consult a physician in case of alarming symptoms.

4.2 Main acute and delayed symptoms and effects of exposure

No known significant effects or critical hazards when using the product correctly.

4.3 Indications for any immediate medical attention and special treatment needed

The decision on the emergency procedure is made by the physician after a thorough assessment of the affected person's condition.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: carbon dioxide, extinguishing powder, extinguishing foam, water spray. Adjust extinguishing agents to the materials stored in the environment.

Unsuitable extinguishing media: water jet – risk of fire spreading.

5.2 Special hazards arising from the substance or mixture

Harmful exhaust fumes containing carbon oxides, styrene and other unidentified thermal decomposition products may be produced during combustion. Avoid inhaling combustion products as these may pose a health hazard.

5.3 Information for firefighters

The flammable product contains substances which reduce its flammability – flame retardants. General protection measures typical in the event of fire. Do not stay in a fire hazard area without appropriate chemical-resistant clothing and self-contained breathing apparatus. Collect used extinguishing agents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Observe the safety and security regulations. Ensure that emergencies and their consequences are handled only by trained personnel. Use personal protective equipment appropriate to the risks involved. Provide adequate ventilation.

6.2 Environmental precautions

If larger quantities of the product are released into the environment, steps must be taken to prevent them from

spreading. Notify the relevant emergency services.

6.3 Methods and material for containment and cleaning up

Collect the product mechanically and arrange for its reuse or treat as waste. Clean the contaminated area.

6.4 References to other sections

See section 13 of the data sheet for handling product waste. For personal protective equipment, see section 8 of the data sheet.

Section 7: Handling and storage of substances and mixtures

7.1 Precautions for safe handling

Work in accordance with health and safety rules. Wear personal protective equipment. Wash your hands before breaks and after work. Use as intended.

7.2 Conditions for safe storage, including information on any incompatibilities

Store the product in a dry and cool room, protecting it from weather conditions (sunlight, frost, precipitation, etc.). Protect from fire sources and open flames. Do not store or use with incompatible materials (see subsections 10.3-10.5).

When placing stacks of product, ensure a safe distance in order to minimise the risk of damage to the product due to impact, e.g. from forklift trucks operating in the immediate vicinity, and to avoid the accumulation of residual flammable foaming agents in the storage space. Do not store with food or animal feed.

7.3 Specific end use(s)

No information on applications other than those specified in subsection 1.2.

Section 8: Exposure controls/personal protective equipment

8.1 Control parameters

| Specification | NDS | NDSCh | NDSP | DSB |
|--------------------------|------------------------|-------|------|-----|
| isopentane [CAS 78-78-4] | 3000 mg/m ³ | - | - | - |
| pentane [CAS 109-66-0] | 3000 mg/m ³ | - | - | - |

Legal basis: Dz. U. (Journal of Laws) of 2014, item. 817.

The product contains components for which national occupational exposure limits have been set, but due to its formulation it is not necessary to monitor their concentrations.

8.2 Exposure controls

General health and safety rules must be observed. Do not eat, drink or smoke while working. Wash your hands thoroughly before breaks and after work. When heat treatment or high-temperature processes are required, appropriate extinguishing agents should be stored in close proximity to the workplace.

Hand and body protection

Wear protective gloves to protect against mechanical and thermal hazards as well as footwear and work clothing.

Eye protection

Safety glasses are recommended in case of danger of contact with eyes.

Respiratory protection

Not required if proper ventilation is ensured. Use respiratory protection when working in confined spaces, with high product particle emissions, e.g. when cutting blocks of polystyrene foam.

The personal protective equipment used must comply with the requirements of the Regulation of the Minister of Economy of 21 December 2005 (Dz. U. U. No. 259, item 2173) and Directive 89/686/WE (as amended). The employer must provide protection measures appropriate to the activities carried out and meeting all quality requirements, including maintenance and cleaning.

Environmental exposure controls

Do not allow large quantities of the product to enter ground water, sewage, waste water or soil.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| state of aggregation / form: | solid / rigid foam; blocks consisting of small heat-treated, foamed balls |
| colour: | white |
| odour: | odourless product |
| odour threshold: | not determined |
| pH value: | not applicable |
| melting point/freezing point: | not determined |
| initial boiling point: | not determined |
| flashpoint: | according to product specification |
| evaporation rate: | not determined |
| flammability (solid, gas): | flammable product; contains flame retardants |
| upper/lower explosion limit: | not applicable |
| vapour pressure: | not determined |
| vapour density: | not determined |
| relative density: | not determined |
| solubility: | insoluble in water, soluble in acetone and organic solvents |
| partition coefficient:n-octanol/water: | not determined |
| autoignition temperature: | not determined |
| decomposition temperature: | not determined |
| explosive properties: | none exhibited |
| oxidising properties: | none exhibited |
| viscosity: | not applicable, solid |

9.2 Other information

No additional tests.

Section 10: Stability and reactivity

10.1 Reactivity

The product has low reactivity. See also subsections 10.3 to 10.5.

10.2 Chemical stability

When used and stored correctly, the product is stable.

10.3 Possibility of hazardous reactions

Solvents, solvent-based adhesives, wood preservatives can dissolve or swell the product.

10.4 Conditions to be

Protect from moisture. Avoid direct sunlight, fire sources, sparks, hot surfaces.

10.5 Incompatible materials

Strong oxidants, solvents, wood preservatives.

10.6 Hazardous decomposition products

No dangerous decomposition products are known.

Section 11: Toxicological information

11.1 Information on toxicological effects

When complying with the general rules of health and safety at work, the product does not pose a threat to human health or life. Information on the acute and/or delayed effects of exposure has been determined on the basis of information on the classification of substances contained in the article and/or toxicological studies and the knowledge and experience of the manufacturer.

Acute toxicity

Based on the available data, the classification criteria are not met.

Skin corrosion/irritation

Based on the available data, the classification criteria are not met.

Serious eye damage/irritation

Based on the available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on the available data, the classification criteria are not met.

Germ cell mutagenicity

Based on the available data, the classification criteria are not met.

Carcinogenic effect

Based on the available data, the classification criteria are not met.

Reproductive toxicity

Based on the available data, the classification criteria are not met.

Specific target organ toxicity - single exposure

Based on the available data, the classification criteria are not met.

Target organ toxicity - repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on the available data, the classification criteria are not met.

Section 12: Environmental information

12.1 Toxicity

No harmful effects on the environment should be expected from the product when used correctly.

12.2 Durability and degradability

The product is not biodegradable.

12.3 Bioaccumulation capacity

Due to the form of polystyrene foam, bioaccumulation is not to be expected.

12.4 Mobility in the soil

The product is not mobile in the soil. Mobility in aquatic environments is low.

12.5 Results of PBT and vPvB assessment

No information on the fulfilment of the PBT or vPvB criteria according to Annex XIII of REACH. The relevant tests were not conducted.

12.6 Other adverse effects

Small polystyrene particles can have a physical effect on living organisms.

Section 13: Waste treatment

13.1 Waste disposal methods

Mixture recommendations: dispose of in accordance with current regulations. Small quantities can be disposed of with municipal waste. Waste material should be stored in a designated place for reprocessing or destruction. Waste product should be recovered or disposed of in authorised incineration plants or waste disposal plants, in accordance with applicable regulations.

Recommendations for used packaging: recover / recycle / dispose of packaging waste in accordance with applicable regulations.

Community legal acts: Directives of the European Parliament and of the Council: 2008/98/WE and 94/62/WE National legislation: Dz. U. 2013, item 21 as amended; Dz. U. 2013, item 888.

Section 14: Transport information

14.1 UN number (number ONZ)

Not applicable, product not classified as hazardous during transport.

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

Not applicable.

14.6 Special precautions for users

Not applicable.

14.7 Transport in bulk according to MARPOL Annex II and the IBC code

Not applicable.

Section 15: Regulatory information

15.1 Safety, health and environmental legislation specific to the substance or mixture

Act of 25 February 2011 on chemical substances and their mixtures (Dz. U. No. 63, item 322 as amended). Decree of the Minister of Labour and Social Policy of 6 June 2014 on the maximum permissible concentrations and intensities of factors harmful to health in the working environment (Dz. U. of 2014, item 817).

Waste Act of 14 December 2012. (Dz. U. of 2013, item 21 as amended).

Act of 13 June 2013 on packaging and packaging waste management (Dz. U. of 2013, item 888). Regulation of the Minister for the Environment of 9 December 2014 on the waste catalogue (Dz. U. of 2014, item 1923).

Regulation of the Minister of Economy of 21 December 2005 on essential requirements for personal protective equipment (Dz. U. No. 259, item 2173).

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the working environment (Dz. U. No. 33, item 166).

1907/2006/WE Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/WE and repealing Council Regulation (EWG) No 793/93 and No 1488/94 as well as Council Directive 76/769/EEG and Commission Directive 91/155/EEG, 93/67/EEG, 93/105/EEG and 2000/21/EEG as amended.

1272/2008/WE Regulation 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/EEG and 1999/45/WE, and amending Regulation (WE) No 1907/2006, as amended.

2015/830/WE Commission Regulation of 28 May 2015 amending Regulation (WE) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

2008/98/WE Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

94/62/WE Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste. European ADR Agreement concerning the international carriage of dangerous goods by road.

15.2 Chemical safety assessment

According to REACH, there is no obligation to carry out chemical safety assessments for articles.

Section 16: Other information

Full text of H-phrases from section 3 of the data sheet

| | |
|--------|---|
| H224 | Extremely flammable liquid and vapour. |
| H225 | Highly flammable liquid and vapour. |
| H304 | Ingestion and inhalation may cause death. |
| H336 | May cause sleepiness or dizziness. |
| H411 | Toxic to aquatic life with long-lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Explanation of abbreviations and acronyms

| | |
|-------------------|---|
| Aquatic Chronic 2 | Hazardous to the aquatic environment - chronic hazard, cat. 2 |
| Asp. Tox. 1 | Hazard from aspiration of cat. 1 |
| Flam. Liq. 2, 3 | Flammable liquid cat. 2, 3 |
| STOT SE 3 | Specific target organ toxicity - single exposure cat. 3 |
| NDS | Exposure limit |
| NDS Ch | Short-term exposure limit |
| NDSP | Threshold limit value ceiling |
| DSB | Biological limit value |
| vPvB | Very persistent and very bioaccumulative substances |
| PBT | Persistent, bioaccumulative and toxic substance |
| NOEC | No-observed-adverse-effect level |

Training courses

Before working with the product, the user should learn the health and safety rules at the workplace where the product will be used.

Additional information

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Writer of the safety data sheet: Mgr. Ing. Michalina Świerczyńska (na základe údajov výrobcu).

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The above information is based on the currently available data describing the product and the experience and knowledge of the manufacturer in this respect. The information does not constitute a quality description of the product or a promise of specific characteristics. It should be regarded as an aid to safe handling during transport, storage and use. This does not release the user from their responsibility for the misuse of the above information and from compliance

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