

Safety Data Sheet

According to Regulation (EC) No. 1907/2006



Trade name:	EPS nub panel
Original Version:	09.03.2009
Version:	1.0

01. Identification of the substance/preparation and of the company

Trade name:	EPS nub panel
Use of the of substance/preparation:	Surface heating systems
Company/undertaking identification:	Uponor Ltd
Street/P.O Box:	The Pavillion, Blackmoor Lane, Watford
National code/postal code/city :	Herts, WD18 8GA
Contact for technical information:	Technical hotline Uponor +44 (0) 1923 927020 <i>Mo.-Th.: 08:00-17:00</i> <i>Fr.: 08:00-16:30</i>
Telephone/telefax/e-mail:	+44 (0) 1923 927020 / enquiries.uk@uponor.com <i>Mo.-Th.: 08:00-17:00</i> <i>Fr.: 08:00-16:30</i>
Emergency telephone:	+44 (0) 1923 927020 <i>Mo.-Th.: 08:00-17:00</i> <i>Fr.: 08:00-16:30</i>

02. Hazards identification

Hazard statements:	None
Information pertaining to special dangers for human and environment:	None

03. Composition/information on ingredients

Chemical characterization:	Expandable polystyrene CAS 9003-53-6 Polysterene CAS 9003-53-6
Hazardous substances:	Hexabromcyclododecan CAS 25637-99-4>0.1w.-%

04. First-aid measures

General Information:	At room temperature the product is not irritant nor does it release hazardous vapours. Below mentioned measures refer to critical situations (e.g. in case of fire)
In case of Inhalation:	In case of excessive inhalation move affected person into fresh air. Call a physician.
In case of skin contact:	In case of contact with molten product immediately immerse in cold water. Do not peel solidified product off the skin. In case of burns consult a physician.
In case of eye contact:	In case of contact with the molten product consult a physician.
In case of ingestion:	Not applicable.

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05. Fire-fighting measures

Suitable extinguishing media:	Adjust to surrounding fire.
Unsuitable extinguishing media:	Full water jet.
Special exposure hazards from the substance or preparation itself, combustion products or resulting gases:	In case of fire the following substances may be liberated: Carbon dioxide, carbon monoxide, soot, styrene monomer.
Special protective equipment for fire-fighting:	Use respiratory protection with universal filter. In closed rooms wear self-contained breathing apparatus.
Additional Information:	None

06. Accidental release measures

Personal Precautions:	None
Environmental precautions:	No special measures required

07. Handling and storage

Advices on safe handling:	No special measures required if handling is at room temperature
Precautions against fire and explosion:	No special measures required
Further information on storage conditions:	Protect against heat and direct sunlight. Store in dry places.
Storage class VCI:	Not applicable.

08. Exposure controls / Personal protection

Occupational exposure limits of the European Union

Respiratory protection:	Not required
Hand protection:	Not required
Eye protection:	Not required
Protective Clothing:	Not required
General health and safety measures:	General principles for occupational safety and health

09. Physical and chemical properties

Appearance

Physical state:	Solid
Colour:	Diverse
Odour:	Odourless

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Safety relevant data

Danger of exploding:	The product is not explosive
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Vapour pressure:	Not applicable
Density:	10 – 60 g/cm ³
Flow time:	Not applicable
Water solubility:	Insoluble
pH-Value:	Not applicable
Melting point/range:	70 - 75 °C
Flash point:	370 °C
Auto ignition temperature:	490 °C

10. Stability and reactivity

Conditions to avoid:	The product is stable if stored and handled as prescribed. It decomposes at temperatures > 200 °C
Materials to avoid:	Aromatic halogenated solvents, ketones
Hazardous decomposition products:	At room temperature no hazardous decomposition products are known

11. Toxicological information

If handled properly and according to its determination the product does not cause any health problems according to our experience and information.

Toxicity tests:	Not specified
Experiences made in practice:	Not specified
Information on ingredients:	Not specified

12. Ecological information

Ecotoxicity:	Not specified
Mobility:	Not specified
Persistence and degradability:	Not specified
Bio accumulative potential:	Not specified
Results of the PBT-assessment:	This product contains HBCD (hexabromocyclododecane) which has been classified as harmful to the environment. More recent studies on water organisms have shown, however, that products such as PS-foamed parts contain this substance, but need not to be classified as harmful to the environment. Typical EPS products pass the alimentary system of animals without chemical modifications. EPS manufacturers have commented on the REACH classification of HBCD. More information can be

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	requested from Uponor GmbH.
Other adverse effects:	Not specified

13. Disposal considerations

Substance / preparation:	According to the legal requirements
Waste code in accordance with AVV: 200139	

14. Transport information

Land transport ADR/RID

Classification

Class:	Not applicable
Hazard number:	Not applicable
UN-No:	Not applicable
Classification code:	Not applicable
Official transport designation:	Not applicable
Hazard inducer:	Not applicable

Packing

Packing group:	Not applicable
Hazard label:	Not applicable

Marine transport IMDG

Classification

IMDG-Code class:	Not applicable
EmS:	Not applicable
Un-No:	Not applicable
Marine Pollutant:	Not applicable
Proper shipping name:	Not applicable
Hazard inducer:	Not applicable

Packing

Packing group:	Not applicable
Hazard label:	Not applicable

Air transport ICAO-TI und IATA-DGR

Classification

Class:	Not applicable
UN-no:	Not applicable
Proper shipping Name:	Not applicable
Hazard inducer:	Not applicable

Packing

Packing group:	Not applicable
Hazard label:	Not applicable

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15. Regulatory information

Chemical safety assessment:	Not applicable
Labelling in accordance with EC regulation:	R

Code letter/s and hazard statement/s of the product:

R-Phrases:	50 / 53
S-Phrases:	Not applicable
EC-regulations:	Not applicable

National regulations:	Observe in addition any national regulations
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16. Other information

Further relevant EC-regulations

Restrictions on use recommended by the manufacturer:	Not applicable
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R-Phases as stated in paragraph 20 and 3:	50 / 53
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Further information

Changes compared to previous version:	none
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Responsibility for issue of Safety Data Sheet:	Product and System Development
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