

SAFETY DATA SHEET

Lambdatherm Grey EPS Insulation Board

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

1.1. Product Identifier

Product Name: Lambdatherm® Grey External Wall Grade Density EPS Insulation Board

Product Code: Square edged board ESPS/GPSE020mm –GPSE250mm TS Rail SPS/GPRS050-GPRS200mm Grey board

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

SPSEnvirowall supply product which is most commonly used in Building and Civil engineering. The closed cell structure of the material offers excellent insulation properties in addition to mechanical strength.

The Lambdatherm Grey EPS boards reflect the sun's ray's significantly less than the white versions which largely eliminate sun glare for applicators.

1.3. Details of the supplier of the safety data sheet

Company Name: SPSEnvirowall Ltd
 Orchard House
 Aire Valley Business Centre
 Keighley
 West Yorkshire
 BD21 3DU
 United Kingdom
Tel: 01535 661633
Fax: 01535 661933
Email: info@spsenvirowall.co.uk

1.4. Emergency Telephone Number

National Poisons Emergency Number / NHS: 111

Section 2: Hazards identification

2.1. Classification of the substance or mixture

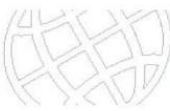
Expanded polystyrene containing residual amounts of pentane (blowing agent)

Component name	Pentane
CAS No.	109-66-0
Hazard	Highly Flammable
Risk Phrase	11

Graphite Material – CAS number 7782-42-5
CAS number for polymer component – 9003-53-6 (polystyrene)

2.2 Label Elements

No data available



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2.3. Other Hazards

No data available

Section 3: Composition/information on ingredients
3.2. Mixtures

No data available

Section 4: First aid measures
4.1. Description of first aid measures

No data available

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

No data available

4.3. Indication of any immediate medical attention and special treatment needed
Section 5: Fire-fighting measures
5.1. Extinguishing media

Fire-retardant material contains a uniformly distributed flame retardant. Such flame retardant inhibits combustion from minor fire sources. However such material must not be considered non-flammable and proper precautions must be heeded.

5.2. Special hazards arising from the substance or mixture

The gases emitted in the event of a fire do not differ essentially from the fumes given off when other organic materials burn. They consist predominantly of carbon dioxide and water. Other constituents the concentrations of which depend on the conditions under which the fire occurs, are carbon monoxide and soot.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Flash ignition point is between 350 and 490°C depending on application

Ensure adequate firefighting equipment is to hand and that there are sufficient fire exits, which are kept clear at all, times.

In the event of fire call the Fire Brigade immediately advising them that EPS (expanded polystyrene) is involved. A small fire can be easily extinguished in the early stages if tackled quickly with water, CO₂, dry powder or BCF extinguisher provided that the person tackling a fire in its early stages takes no undue risk.

In the event of a fire in which EPS is involved, there is generally no environmental hazard in the form of toxic fumes or water pollution. The fumes given off when EPS burns are those similar to those emitted by burning wood.

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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No data available

6.2. Environmental precautions

No data available

6.3. Methods and material for containment and cleaning up

No data available

6.4. Reference to other sections

No data available

Section 7: Handling and storage

7.1. Precautions for safe handling

EPS is combustible and all areas where the product is used or stored must be designated very strictly "no smoking" and free of other potential ignition hazards.

A hot work permit must be operated in areas storing or using EPS

Polystyrene dust similar to other hydrocarbon based polymers in this form, is classified as a Group (A) flammable dust and relevant precautions should be taken including the use of appropriate extraction to avoid accumulations creating explosive atmospheres

As a generality EPS should ideally be stacked flat at ground and wherever possible under cover in a fenced compound or building accessible only to authorised persons, protected from high winds and damp surfaces and also direct sunlight if exposure is likely to be longer than one week.

Individual stock piles at sites should contain no more than 60 cubic metres (larger volumes should be divided into 2 or more areas separated by at least 20 metres),

Stock piles should be sited such that, in the event of fire, flowing or dripping molten material will not cause the spread of fire to other combustible material or to other areas of a building in particular staircases and corridors. Ensure clear aisles and do not impair the performance of sprinkler system.

Store the product well away from highly inflammable materials such as paint or similar materials.

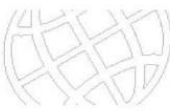
Small amounts of residual pentane (blowing agent) may be given off by the finished product. For this reason it should be stored in well ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities

Users are recommended to seek guidance from their local fire authorities and / or health and safety inspectorate to ensure safe practice in relation to given site/factory circumstances.

7.3. Specific end use(s)

No data available.



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Section 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.
Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.
Hand protection: Protective gloves.
Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.
Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

No data available

9.2. Other information

No data available.

Section 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

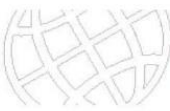
10.6. Hazardous decomposition products

No data available

Section 11: Toxicological information

11.1. Information on toxicological effects

Generically EPS is non-toxic and non-irritant therefore no specific precautions are necessary with respect to the handling of supplied products. Obviously ingestion should be avoided.



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Section 12: Ecological information

12.1. Toxicity

EPS is completely free of the presence of any heavy metals.

EPS does not suffer from mould or fungus attack. It offers no utility to vermin and is therefore no attraction to insects or rodents.

EPS is easily transported and handled due to the light nature of the material.

Lambdatherm Grey EPS is manufactured using a Poly FR flame retardant and does not contain HBCD's

EPS is a combustible material and appropriate precautions must be taken at all stages to avoid ignition and to store product in a safe manner.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Section 13: Disposal considerations

13.1. Waste treatment methods

Due to its lightweight cellular structure it assists the aeration of sanitary landfills

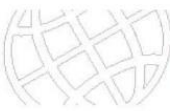
Section 14: Transport information

14.1. UN number

UN number: N/A

14.2. UN proper shipping name

No data available



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14.3. Transport hazard class (es)

No data available

14.4. Packing group

No data available

14.5. Environmental hazards

EPS fused products are chemically neutral. They may be disposed of without any problems. EPS does not react with ground water nor produce any gases when dumped.

14.6. Special precautions for user

No special precautions.

Section 15: Regulatory information

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

No data available

15.2. Chemical Safety Assessment

No data available

Section 16: Other information

The above information is given in good faith by SPSEnvirowall and no liability is accepted.

The information is intended as guidance for those handling and working with finished expanded polystyrene and is not exhaustive.

The responsibility for safe working and compliance with legislation or any local requirements rests with the purchaser and user who should carry out their own risk assessments based on the interaction of this material within their own range of operations and processes.

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.