

Kingspan GreenGuard®

Product Safety Information

Although the REACH Regulation does not require a Safety Data Sheet to be provided for Kingspan GreenGuard® products, as they are considered articles under the Regulation, this Product Safety Information Sheet has been prepared to reflect the primary SDS requirements as set out in Annex II to Regulation (EC) No 1907/2006 (REACH), as amended at the date of the publication, as they might reasonably apply to articles.

1 Identification of the product and of the company / undertaking

1.1 Product Identifier

Kingspan GreenGuard® GG300;
Kingspan GreenGuard® GG301;
Kingspan GreenGuard® GG500;
Kingspan GreenGuard® GG700.

1.2 Relevant identified uses of the product

Premium performance fibre-free cored rigid thermoplastic polystyrene insulation for building fabric and building services applications. No uses advised against on physical, health or environmental grounds based on the provisions of the REACH Regulation.

1.3 Details of the supplier of the Product Safety Information Sheet

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2 Hazards Identification

2.1 Classification

There are no applicable Globally Harmonised System (GHS) hazard statements for the substances contained in these products. Accordingly, there are no known hazards associated with the normal handling or use of these insulation products.

2.2 Label elements

In line with the lack of classification, there are no specific labelling requirements.

2.3 Other hazards

Although polystyrene products are unlikely to create dusts during fabrication, they are capable of generating small particles of foam which, depending on their size distribution, could be identified as microplastics. These are considered as potentially hazardous to the environment in many jurisdictions.

3 Composition information

Core:	Extruded polystyrene (XPS as defined in EN 13164) insulation.
Alternative facings:	Impact resistant building board (GG301) facings:

Further information on facings available upon request.



4 First aid measures

4.1 Description of first aid measures

Inhalation:	Remove the person to fresh air.
Skin:	Wash carefully using soap and water or a proprietary cleanser to remove.
Eyes:	Dust particles should be removed by flushing with clean water.
Ingestion:	Drink plenty of water if dust particles are accidentally ingested.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	Possible irritation or soreness in throat and nose.
Skin:	Temporary irritation or rash. Non-sensitising.
Eyes:	Temporary irritation or inflammation.
Ingestion:	No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if needed. Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing media

Suitable media:	Water spray (fog), foam, CO ₂ or dry chemical.
Unsuitable media:	Not applicable.

5.2 Special hazards arising from the product

It is prudent to take precaution against ignition, fire spread and smoke hazard. During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. In smoldering or flaming conditions, carbon monoxide, carbon dioxide and carbon are generated. Combustion products may include and are not limited to: Hydrogen halides.

5.3 Advice for firefighters

Firefighters should use self-contained breathing apparatus and saturate burning foam with water from a spray nozzle. If material is molten, do not apply direct water stream. Use fine water spray or foam.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid / minimise the creation of microplastics when cutting.

6.2 Environmental precautions

Do not release collected dusts or microplastics to drains or waterways (see Section 13 for Disposal considerations).

6.3 Methods and material for containment and cleaning up

Prevent excessive dust and/or microplastic generation and use dust sheets before cutting to capture any generated foams. If accumulation occurs, use vacuum cleaner or dampen with water spray to prior to sweeping up.

6.4 Reference to other sections

See Section 8 for PPE.
See Section 13 for Disposal considerations.

7 Handling and storage

7.1 Precautions for safe handling

When the product is processed mechanically traces of propellant can be released. Monomers and other degradation products can be given off if the material is overheated; Avoid inhalation of vapour. Processing machines must be fitted with local exhaust ventilation. As with all cutting procedures it is recommended that a disposable dust mask be worn. Where dust or microplastics are generated through mechanical cutting in confined spaces, it is recommended that extraction be used. If generation persists over a sustained period in an enclosed space, the level of dust should be monitored at least every 2 hours.

7.2 Conditions for safe storage, including any incompatibilities

Store in original packing in a location free from any ignition hazard such as open flames, cutting and welding torches, high surface temperature electric heaters and other forms of direct radiant heat. Traces of ethanol may be released from material that is freshly produced.

Keep product protected from the elements. Ensure stability of stack and provide adequate aisle space for access between stacks.

8 Exposure controls / personal protection

8.1 Control parameters

There are no specific occupational exposure limits (OELs) for XPS itself. .

8.2 Exposure controls

Inhalation: As with all cutting procedures it is recommended that a disposable dust mask be worn.

Where dust or microplastics are generated through mechanical cutting in confined spaces, it is recommended that extraction be used.

Hands: It is recommended that gloves be worn when handling the products.

Eyes: Eye protection recommended during mechanical cutting.

Skin: Non-sensitising. It is recommended to wear gloves when handling the products.

Other: The products are non-load bearing. Access and work should not be carried out on unsupported boards.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Coloured foam.

Odour: Negligible.

Softening point: >100 °C (decomposes at 135 °C).

Ignition point: Approximately 370 °C.

Insulation density: Typically 30-45 kg/m³.

Solubility in water: Insoluble.

Solubility in other solvents: Soluble in aromatic hydrocarbons and organic solvents.

Other data: None.

9.2 Other information

No additional chemical or physical properties to report.

10 Stability and reactivity

10.1 Reactivity

Unreactive during normal use (see Section 7).

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Not reactive.

10.4 Conditions to avoid

Exposure to elevated temperatures may cause product to melt and create molten droplets.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Products start to decompose at 135 °C (approx.).

11 Toxicological Information

11.1 Information on toxicological effects

There are no known adverse health effects arising from handling or using Kingspan GreenGuard[®] insulation as supplied.

11.2 Information on other hazards

No additional information available.

12 Ecological information

12.1 Toxicity

The products are chemically inert and stable in water and soil.

12.2 Persistence and degradability

As with most thermoplastic materials, these products are likely to be persistent in the environment. Any waste streams, including microplastics, should be well-contained.

12.3 Bio-accumulative potential

None anticipated since the product is a chemically inert polymeric matrix.

12.4 Mobility in soil

No anticipated mobility.

12.5 Results of PBT and vPvB assessment

Testing inappropriate for articles.

12.6 Endocrine disrupting properties

No data available.

12.7 Other Adverse Effects

None known.

13 Disposal considerations

13.1 Waste treatment methods

Waste insulation is considered to be non-hazardous.

Any product dust created in the installation process would be regarded as nuisance dust only, because of its chemically inert nature, but it is good practice to minimise dust generation and dispose of it responsibly in line with the precautions set out in Sections 7 and 8.

With respect to disposal, observe usual safety precautions with polythene bags, wrapping and packaging.

Clean, undamaged product may be re-used.

Waste product, including packaging, should be disposed of in accordance with the Waste Hierarchy – Reduce, Re-Use, Recycle. Refer to national waste handling legislation.

14 Transport information

Read this section in conjunction with Section 7.

Ensure security of load and where necessary sheeting / roping should be used.

It is recommended that mechanical lifting equipment is used when moving bulk quantities.

15 Regulatory information

15.1 Safety, health and environmental regulations / legislation specific for the product

Since polystyrene foams covered by this Product Safety Information sheet are not identified as hazardous waste under the Waste Framework Directive (EU 851/2018) and do not contain substances that display hazardous endpoints under GHS or are classified under CLP (EC 1272/2008), there are no regulations currently applicable to Kingspan GreenGuard®.

However, awareness of the presence of brominated flame retardants may be relevant, even though polymeric versions are not currently classified.

15.2 Chemical safety assessment

No assessment required.

16 Other information

The information contained here is offered in good faith and is based on our current knowledge.

We thereby maintain the right to update and amend this document as necessary.

The information should not be taken as a guarantee of specific performance and users should make their own assessment and make all applicable personnel aware accordingly.

The wearing of appropriate safety equipment is strongly recommended as a precaution and the product should only be used in its design application. Please refer to Sections 7 and 8 for safe handling and appropriate safety measures.

Users should visit the Kingspan Insulation website or contact the Kingspan Insulation Technical Service Department to ensure information is current.

This data sheet does not constitute a workplace assessment. The information provided represents the state of our knowledge regarding this material at the date of its publication. The information provided does not constitute a product specification and no warranty expressed or implied is hereby made.

The information relates only to the specific material designated when used in applications it has been designed for. This information may not be valid for such material used in combination with any other materials or in any other processes, unless specified in the text.

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