Kooltherm®

Product Safety Information

Although the REACH Regulation does not require a Safety Data Sheet to be provided for Kooltherm® 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), and amended by Commission Regulation (EU) No. 2015/830 as they might reasonably apply to articles. The sole purpose of this information sheet is to provide additional information.

1 Identification of the products and company

1.1 Product Identifier

Products containing brominated flame retardant in the reinforced foil complex of the facer:

Kingspan Kooltherm® K110 Soffit Board;
Kingspan Kooltherm® K110 PLUS Soffit Board;
Kingspan Kooltherm® K118 Insulated Plasterboard;
Kingspan Kooltherm® K121 Façade Board;
Kingspan Kooltherm® K15 Rainscreen Board.

Products that do not contain brominated flame retardant:

Kingspan Kooltherm® K103 Floorboard;
Kingspan Kooltherm® K106 Cavity Board;
Kingspan Kooltherm® K107 Pitched Roof Board;
Kingspan Kooltherm® K108 Cavity Board;
Kingspan Kooltherm® K112 Framing Board;
Kingspan Kooltherm® K5 External Wall Board;
Kingspan Kooltherm® Cavity Closer.

1.2 Relevant identified uses of the product

Thermal insulation products for buildings.

1.3 Details of the supplier of the Product Safety Information Sheet

Company Name:	Kingspan Insulation Limited
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1.4 Technical Support contact details

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2 Hazards Identification

2.1 Classification

The product article is not classified as hazardous. A precautionary approach has been taken throughout this document as it pertains to the handling 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

The reinforced foil complex of the facer on products specified in Section 1.1 contain brominated flame retardant that may contribute to generation of acid gases (HBr & Br2.) and smoke during flaming combustion or when heated above 320 °C.

Precaution should be taken to avoid environmental release. See section 6, 7, & 13.

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3 Composition information

Core:	Rigid thermoset phenolic (as defined in EN 13166) insulation.
Facings:	Reinforced foil complex Composite foil Glass tissue Plasterboard
Composites:	Composite panels made of a rigid thermoset phenolic insulation board laminated to a gypsum board (as defined in EN 13950).

The reinforced foil complex of the facer on products specified in Section 1.1 contain brominated flame retardant, DBDPE.

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. When facings containing glass fibres are handled, skin irritation may occur.
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 precautions against ignition, fire spread and combustion products. Phenolic foams are hard to ignite and do not support rapid fire spread. However, as with all organic products, phenolic foams will combust under severe fire conditions, where various oxides of carbon may form. Do not incinerate waste foam in an open environment. Do not inhale fumes; Fire fighters should attack the fire according to the combustible materials present and use breathing apparatus. Cardboard and plastic packaging materials are combustible. Store away from all possible sources of ignition.

The reinforced foil complex of the facer on products specified in Section 1.1 contain brominated flame retardant that may contribute to generation of acid gases (HBr & Br2.) and smoke during flaming combustion or when heated above 320 °C.

5.3 Advice for firefighters

Firefighters should use self-contained breathing apparatus and saturate burning foam with water from a spray nozzle. Dust is classified as weakly explosive (St. Class 1).

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid / minimise the creation of airborne dust. In the event of high dust levels, use approved respiratory protective equipment (see Section 8).

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Prevent dust generation and use dust sheets before cutting to capture any dust generated. If dust does accumulate use vacuum cleaner or dampen with water spray.

6.4 Reference to other sections

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

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7 Handling and storage

7.1 Precautions for safe handling

As with all cutting procedures it is recommended that a disposable dust mask be worn. Where dust is generated through mechanical cutting in confined spaces, it is recommended that extraction be used.

If dust generation persists over a sustained period in an enclosed space, the level of dust should be monitored in line with local regulations.

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. 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 phenolic foam dust itself, follow national legislation for an 8-hour timeweighted average (TWA) limits for dust.

Measured formaldehyde concentrations during phenolic foam cutting operations were consistently well below the European 8-hour TWA occupational exposure limit of 0.3 ppm.

8.2 Exposure controls

Inhalation:	As with all cutting procedures it is recommended that a disposable dust mask conforming to EN 149 (FFP2 or higher) be worn. Where dust is generated through mechanical cutting in confined spaces, dust formation should be minimised and local exhaust ventilation (LEV) or dust extraction should be used.
Hands:	It is recommended that gloves conforming to EN 388 be worn when handling the products.
Eyes:	Eye protection conforming to EN 166 is recommended during mechanical cutting. When installing a product with reflective foil facings in very bright or sunny weather it is advisable to wear UV protective sunglasses or goggles.
Skin:	It is recommended to wear gloves when handling the products. When installing a product with reflective facings in bright sunlight, it is advisable to consider skin protection from UV.
Other:	The products are non-load bearing. Access and work should not be carried out on unsupported boards. When sawing or cutting insulation boards by hand or with a machine, ensure all applicable safety precautions are taken into account.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Pink / peach / yellow / brown foam with reinforced foil complex, composite foil, glass tissue or plasterboard.
Physical state:	Solid
Odour:	Negligible.
Melting point:	Not applicable.
Flash point:	Not applicable.
pH:	Neutral under normal conditions.
Insulation density:	Typically 35 kg/m^3.
Solubility in water:	Insoluble.
Solubility in organics:	Some liquids might cause swelling to the product.
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

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Some discoloration and charring may occur at temperatures greater than 150 °C leading to the possible generation of limited carbon monoxide, where oxygen levels are restricted.

The reinforced foil complex of the facer on products specified in Section 1.1 contain brominated flame retardant that may contribute to generation of acid gases (HBr & Br2.) and smoke during flaming combustion or when heated above 320 °C.

11 Toxicological Information

11.1 Information on toxicological effects

No known toxic effects when used normally and as intended. During large/industrial scale cutting and/or transformation of the material, local regulations regarding occupational exposure limits of volatile organic substances must be monitored. Mechanical ventilation and dust extraction may be necessary.

11.2 Information on other hazards

No additional information available.

12 Ecological information

12.1 Toxicity

Kingspan Kooltherm® cores are manufactured from materials that form a chemically inert matrix that is not biodegradable. Leachates, if any, are expected to be of limited concern, although may be mildly acidic. This product is not expected to cause harm to animals or plants during normal conditions of use.

12.2 Persistence and degradability

Particles released to the environment may persist and be taken up by aquatic and terrestrial organisms, potentially causing physical effects.

The reinforced foil complex facer on products specified in Section 1.1 contains brominated flame retardant, DBDPE. DBDPE is a known vPvB (very Persistent and very Bioaccumulative) substance.

12.3 Bio-accumulative potential

The product is a chemically inert polymeric matrix.

The reinforced foil complex facer on products specified in Section 1.1 contains brominated flame retardant, DBDPE. DBDPE is a known vPvB (very Persistent and very Bioaccumulative) substance.

12.4 Mobility in soil

No anticipated mobility.

12.5 Results of PBT and vPvB assessment

Testing inappropriate for articles.

The reinforced foil complex of the facer on products specified in Section 1.1 contains brominated flame retardant DBDPE. DBDPE is a known vPvB (very Persistent and very Bioaccumulative) substance.

12.6 Endocrine disrupting properties

No data available.

12.7 Other Adverse Effects

Blowing agents used in the Kingspan Kooltherm® range of products have negligible ozone depletion potential (ODP) and low (below 5) global warming potential (GWP).

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13 Disposal considerations

13.1 Waste treatment methods

Waste insulation is non-hazardous and should be disposed of regularly in a designated location without grinding or powdering in accordance with local requirements and laws.

Product dust created in the installation process should be avoided or otherwise minimised to extent possible.

Dispose of dust responsibly in line with the precautions set out in Sections 7 and 8.

Waste, including packaging, should be disposed of in accordance with the Waste Hierarchy – Reduce, Re-Use, Recycle.

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

Kingspan Kooltherm® cores are manufactured from materials that form a chemically inert matrix that is not biodegradable. Leachates, if any, are expected to be of limited concern, although may be mildly acidic.

This product is not expected to cause harm to animals or plants during normal conditions of use.

Clean, undamaged product may be re-used.

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

The product itself is not covered by the Classification Labelling and Packaging Regulation (CLP).

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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