

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 (EU) 2020/878 (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 Kooltherm® K103 Floorboard;
Kingspan Kooltherm® K106 Cavity Board;
Kingspan Kooltherm® K107 Pitched Roof Board;
Kingspan Kooltherm® K108 Cavity Board
Kingspan Kooltherm® K110 Soffit Board;
Kingspan Kooltherm® K110 PLUS Soffit Board;
Kingspan Kooltherm® K112 Framing Board;
Kingspan Kooltherm® K118 Insulated Plasterboard;
Kingspan Kooltherm® K3 Floorboard;
Kingspan Kooltherm® K5 External Wall Board;
Kingspan Kooltherm® K7 Pitched Roof Board;
Kingspan Kooltherm® K8 Cavity Board;
Kingspan Kooltherm® K8 PLUS Cavity Wall Board;
Kingspan Kooltherm® K10 Soffit Board;
Kingspan Kooltherm® K10 PLUS Soffit Board;
Kingspan Kooltherm® K12 Framing Board;
Kingspan Kooltherm® K15 Rainscreen Board;
Kingspan Kooltherm® K16 Insulated Plasterboard;
Kingspan Kooltherm® K17 Insulated Plasterboard;
Kingspan Kooltherm® K18 Insulated Plasterboard;
Kingspan Kooltherm® K20;
Kingspan Kooltherm® Cavity Closer;
Kingspan Kooltherm® Duct Insulation;
Kingspan KoolDuct®.

1.2 Relevant identified uses of the product

Premium performance fibre-free cored rigid thermoset phenolic 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

Cutting and sanding may generate dust. As with most types of nuisance dust, excessive dust may irritate the eyes, respiratory tract or sensitive skin. See Section 8.1 for further information.



3 Composition information

Core:	Rigid thermoset phenolic (as defined in EN 13166) insulation.
Alternative facings:	Reinforced foil complex (K106, K110, K118, K8 PLUS, K10, K15, K17, K18, Duct Insulation). Composite foil (K107, K108, K112, K3, K7, K8, K12). Glass tissue: (K103, K110, K110 PLUS, K118, K3, K5, K10, K10 PLUS, K17, K20, Duct Insulation).
	Non-combustible building board (K110 PLUS, K10 PLUS). Polypropylene fleece (K106). Plasterboard (K118, K16, K17, K18). PVC (Cavity Closer).

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, CO₂ 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. There are no halogenated flame retardants present in these products. 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.

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 excessive 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 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

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 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. 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, but best practice is not to exceed 3 mg/m³ based on an 8-hour time-weighted average (TWA). This is only likely to be an issue in enclosed spaces with prolonged cutting activities. Formaldehyde emissions from phenolic foam have not been detected from the cutting operations in a series of independently conducted tests. Therefore, the proposed European 8-hour TWA OEL for formaldehyde at 0.3 ppm would be met.

8.2 Exposure controls

Inhalation:	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, dust formation should be minimised and 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. 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 un-supported boards. The smooth facing used on some Kooltherm® products can be slippery underfoot when wet.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Odour:	Negligible.
pH:	Not relevant in solid form.
Melting point:	Not applicable.
Flash point:	Not applicable.
Insulation density:	Typically 30-60 kg/m ³ .
Solubility in water:	Insoluble.
Solubility in organics:	Some liquids might cause swelling.
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 for lower density products leading to the possible generation of limited carbon monoxide, where oxygen levels are restricted.

11 Toxicological Information

11.1 Information on toxicological effects

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

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.

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

No such assessment is required for products such as Kooltherm®, since the assessment of persistence, bioaccumulation and toxicity only applies at the substance level. In this respect those substances contained in Kooltherm® products (e.g. blowing agents) are not known to possess any of these properties, although appropriate management at end-of-life is still recommended.

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 global warming potential (GWP).

13 Disposal considerations

13.1 Waste treatment methods

Waste insulation is considered to be non-hazardous.

Product dust created in the installation process is 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. The European Waste Catalogue coding for phenolic foam is 17 06 04, based on the fact that such foams do not contain any hazardous materials.

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 phenolic 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 Kooltherm®.

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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