



K-Roc® Pipe Insulation

Safety Data Sheet

Although the REACH Regulation does not require a Safety Data Sheet (SDS) to be provided for Kingspan K-Roc® Pipe Insulation products, as they are considered articles under the Regulation, this Safety Data 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 Substance / Mixture and Company

1.1 Product Identifier

Kingspan K-Roc® Pipe Insulation.

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Thermal insulation of building equipment and industrial installations.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Kingspan Insulation Ltd
 Company Address: Harvey Road, Burnt Mills Industrial Estate, Basildon, SS13 1QJ, UK.
 Tel: +44 (0) 1457 890400
 Email: hvactechnical@kingspaninsulation.co.uk

1.4 Emergency Telephone Number

Telephone: +44 (0) 1457 890400

2 Hazards Identification

2.1. Regulatory Status

The product is classified as an article. An article is understood as an object whose features obtained in the production process, including shape, pattern or surface shape, affect the purpose of the object to a greater extent than its chemical composition (Article 3 of the REACH Regulation).

2.2 Classification of the Substance or Mixture

Rock mineral wool is not classified as hazardous according to EU Directives 67/548/EEC and 1999/45/EC as amended (Regulation (EC) No. 1272/2008) IV concerning the classification, labeling and packaging of substances and mixtures (CLP). There are no hazard statements associated with this product.

2.3. Adverse Physicochemical, Human Health and Environmental Effects

No additional information available.

2.4 Label Elements

This product has no label elements.

2.3 Other Hazards

Dust may be generated when cutting or manufacturing the product. When first heated to approximately 200 °C, release and decomposition of binders may occur, which in high concentrations may cause eye and respiratory irritation. More information in sections 8 and 11.

3 Composition

Product Component	Name of the Ingredient	Identification number	Concentration
Stone wool	Fibres ¹	650-016-00-2 (index number)	76% - 93%
	Binder	25104-55-6 (CAS number)	1.6% - 5%
	Mineral oil	649-471-00-X (index number)	up to 0.5%
Facing	Aluminium foil	-	0.6% - 5.5%
	Polyethylene ²	9002-88-4 (CAS number)	0.3% - 2.9%
	Fibreglass mesh ³	-	0.2% - 1.8%
Ever-living glue	A mixture of hydrocarbon resins, synthetic rubbers and mineral oil ⁴	-	0.2% - 8.9%

¹ Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the note Q conditions.

² A layer of polyethylene with a content of 5% - 25% in the facing.

³ Glass fibre mesh with a polyvinyl alcohol binder (CAS 9002-89-5) with a content below 5% in the facing.

⁴ No hazardous ingredients in the glue.



4 First Aid Measures

4.1 Description of First Aid Measures

- Inhalation: Prevent further exposure. Rinse throat with cold water, blow nose.
- Skin: If mechanical irritation occurs, take off contaminated clothing and shoes immediately. Rinse contaminated skin thoroughly with plenty of cold water and soap. Get medical attention if irritation develops and persists.
- Eye: Rinse contaminated eyes immediately with running water, remove contact lenses (if present) and continue rinsing for at least 10 minutes. While rinsing, keep the eyelids wide open and move the eyeball. In case of severe or persistent symptoms, consult an ophthalmologist.
- Note: Do not use too strong a stream of water, so as not to damage the cornea.**
- Ingestion: If the injured person is fully conscious, rinse mouth with water and then drink plenty of water. **Do not** induce vomiting. If spontaneous vomiting occurs, keep head low so that vomit does not enter the lungs. Provide fresh air and conditions to rest in a position comfortable for breathing. In the event of unconsciousness, place the unconscious person in the recovery position and call for medical assistance immediately.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Inhalation: Exposure to dust causes irritation of the mucous membranes of the upper respiratory tract, coughing, and respiratory disorders.
- Skin: Dust is irritating. It causes redness, rashes, irritation of the skin with prolonged or frequent contact. May cause an allergic skin reaction.
- Eye: Exposure to high concentrations of dust causes irritation of the mucous membranes of the eyes; causes burning, redness and tearing. May damage eyes.
- Ingestion: In oral poisoning, gastric disturbances (nausea, vomiting, abdominal pain) may occur.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Symptomatic treatment.

5 Fire-Fighting Measures

5.1 Extinguishing Media

- | | |
|-----------------------------------|--|
| Suitable extinguishing media: | Water, foam, carbon dioxide (CO ₂) and dry powder. In case of fires in poorly ventilated areas, the use of respiratory protection / breathing apparatus may be required. |
| Non-suitable extinguishing media: | None. |

5.2 Special Hazards Arising from the Substance or Mixture

None identified.

5.3 Advice for Fire-Fighters

Non-combustible product. Parts of packaging or coverings can cause some fire risk. Combustion products of the product and packaging - carbon dioxide, carbon monoxide and traces of other gases.

6 Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

In the event of high dust concentrations, use the same personal protective equipment as specified in Section 8.

6.2 Environmental Precautions

No specific measures need to be taken in the event of normal use.

6.3 Methods and Material for Containment and Cleaning Up

Vacuum cleaner or sweeping with water spray.

6.4 Reference to Other Sections

Section 8. Exposure controls and personal protection.

7 Handling and Storage

7.1 Precautions for Safe Handling

- No special precautions in production. It is best to use a knife for cutting.
- If a power tool is used, it must be equipped with an appropriate air suction system.
- Use an appropriate protective mask when handling the product protecting respiratory tract (mouth, nose) from inhaling stone wool fibres.
- Protect the skin against contact with the product.
- Wear safety glasses when handling the product.
- The product should be unpacked just before application and avoid unnecessary contact with the unpacked product, for example when carrying it.
- Ensure adequate ventilation of the workplace.
- Clean the workplace with a vacuum cleaner.
- Keep work areas clean. Remnants, scraps of the product, being waste, should be disposed of in accordance with applicable laws and local requirements.
- After each contact with the product, rinse the whole body thoroughly with cold water, then wash them thoroughly and rinse again with cold water.
- When you notice disturbing symptoms in people who have or who have come into contact with the product, see a doctor immediately.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store the material in the original packaging, in a dry place, protected against weather conditions and damage. The storage places should ensure the stability of the stored products.

7.3 Specific End Uses

See section 1.

8 Exposure Controls / Personal Protection

8.1 Exposure Guidelines

- Cover exposed body parts. Wear a face mask when working in an unventilated area.
- Use safety glasses when installing.
- Dispose of waste in accordance with local regulations.
- Provide ventilation in the workplace if possible.
- Clean the work area with a vacuum cleaner.
- Rinse hands and face with cold water before final washing.

9 Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Solid.
Appearance:	Fibrous.
Shape:	Pipe sections.
Colour:	Yellowish brown / yellow / yellowish grey / grey.
Odour:	Odourless
Boiling point:	Not applicable.
Flash point:	Not applicable.
Flammability:	Class A2.
Explosive properties:	Not applicable.
Density:	From 30 to 170 kg/m ³ .
Water solubility:	Practically chemically inert and insoluble in water.
Fats solubility:	Not applicable.
Other information:	Not applicable.

9.2 Information on Basic Physical and Chemical Properties - Facing

Physical state:	Composite - solid.
Shape:	Reinforced foil.
Colour:	Shiny metallic, left side matte with a typical structure.
Odour:	Odourless.
Melting point:	Undetermined for composite.
Melting point - range:	od 80 °C do 140 °C (polyethylene).
Melting point - range:	od 650 °C do 660 °C (aluminum foil).
Melting point - range:	od 160 °C do 140°C (fibreglass mesh).
Flash point:	Above 300 °C polyethylene may decompose and smoke may appear.
Spontaneous combustion:	Polyethylene: above 350 °C
Risk of explosion:	No risk of explosion.
Solubility in water:	Polyethylene - insoluble, aluminum foil - insoluble, fibreglass mesh - not determined.
Density:	Undetermined for composite, polyethylene: approx. 920-960 kg/m ³ , aluminum foil: approx. 2,700 kg/m ³ , fibreglass mesh approx. 2,000 - 2,500 kg/m ³ .

9.3 Information on Basic Physical and Chemical Properties - Glue

Physical state:	Solid.
Shape:	Thin tracks.
Colour:	Bright yellow.
Odour:	Odourless.
pH:	Not applicable.
Melting point:	95 - 115 °C.
Boiling point:	Not applicable.
Flash point:	Not applicable.
Flamability:	Not applicable.
Explosive properties:	Has no use.
Density 23 °C:	Approx. 0.98 g/cm ³ .
Solubility in water:	Insoluble in water.

10 Stability and Reactivity

10.1 Reactivity

Wool:	None.
Facing:	None specified.
Glue:	None specified.

10.2 Chemical Stability

Wool:	Stable in normal working conditions.
Facing:	Stable in normal working conditions.
Glue:	Stable in normal working conditions.

10.3 Possibility of Hazardous Reactions

Wool:	No hazardous reactions known.
Facing:	No hazardous reactions known.
Glue:	No hazardous reactions known.

10.4 Conditions to Avoid

Wool:	None specified.
Facing:	Air heating > 300 °C during welding, danger of release of decomposition products.
Glue:	Avoid high temperatures, direct sunlight, hot surfaces and open flames.

10.5 Incompatible Materials

Wool:	None specified.
Facing:	Strongly oxidising materials.
Glue:	None specified.

10.6 Hazardous Decomposition Products

Wool:	Products with binder: Binding substances may be released and broken down during the first heating. High concentrations of both of these compounds can irritate the eyes and respiratory system.
Facing:	No spontaneous decomposition under normal storage conditions. Hazardous combustion products may include carbon monoxide, carbon dioxide and small amounts of aldehydes, ketones, organic acids or hydrocarbons. In case of incomplete combustion, fumes and carbon particles may be released.
Glue:	None specified.

11 Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity:	Not classified.
Irritations:	Not classified. Dust may affect the skin, mucous membranes of the upper respiratory tract (coughing, sneezing) and eyes, causing temporary symptoms (e.g., itching). No symptoms caused by chemical agents.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified. Rock mineral wool fibres contained in products are not subject to the classification specified in EC Regulation No. 1272/2002 as meeting one of the conditions set out in Note Q. In October 2001, the International Agency for Research on Cancer (IARC) classified stone (mineral) wool insulation to Group 3 (not classified for carcinogenicity), i.e. not causing cancer in humans.
Reproductive toxicity:	Not classified.
STOT-single exposure:	Not classified.
STOT-repeated exposure:	Not classified.
Potential adverse health effects person and possible symptoms:	Based on available data, there are no classification criteria fulfilled.

11.2 Information on Other Hazards

No additional information is available.

12 Ecological Information

12.1 Toxicity

Stone wool decomposes very slowly in the environment and does not emit any substances that would have a significant impact on the environment. None of the components meet the criteria for PBT and vPvB in accordance with Annex XIII of Regulation 1907/2006.

12.2 Persistence and Degradability

The product is not easily biodegradable. Fibres that are exposed to an acidic environment have been shown to break down rapidly.

12.3 Bio-accumulative Potential

None specified.

12.4 Mobility in Soil

The fibres are expected to have low soil absorption.

12.5 Results of PBT and vPvB assessment

None known.

12.6 Endocrine Disrupting Properties

None known.

12.7 Other adverse effects

None known.

13 Disposal Considerations

Disposal should be carried out in accordance with applicable national, regional and local regulations.

14 Transport Information

This material is not subject to regulation as a hazardous material for shipping.

15 Regulatory Information

15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture

International inventories:

This product is classified as an article. Articles are exempt from registration or listing under chemical inventories like TSCA (USA), DSL / NDSL (CAN), REACH (EU), ENCS (JP), IECSC (CN), KECL (KR), PICCS (PH), AICS (AUS).

European regulation:

This product is classified as an article. See section 2.

This product contains no REACH substances with Annex XVII restrictions.

This product contains no REACH candidate substances.

This product contains no REACH Annex XIV substances.

15.2 Chemical safety assessment

No assessment required.

16 Other Information

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The information contained herein is based upon information available at the last issue date. The user must verify the suitability and completeness of the information in relation to the specific use of the product. This document must not be considered as a guarantee of any specific product property. Recommendations for use should be verified by the user as to the suitability and compliance with actual requirements, specifications and any applicable codes, laws and regulations. Kingspan Insulation Ltd is not responsible, nor accountable, for improper use of the product by the user.

Contact Details

UK

Kingspan Insulation Ltd

Glossop Brook Road | Glossop | Derbyshire | SK13 8GP

T: +44 (0) 1457 890400

E: info.kti@kingspan.com

www.kingspantechinsulation.co.uk

For individual department contact details please visit

www.kingspantechinsulation.co.uk/contacts

Ireland

Kingspan Insulation Ltd

Castleblayney | County Monaghan

T: +353 (0) 42 975 4219

E: info@kingspaninsulation.ie

www.kingspantechinsulation.ie



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