Revision date	**01/09/2023**
Revision	**6.0**
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SAFETY DATA SHEET

Rock Mineral Wool with ECOSE® Technology

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name	Rock Mineral Wool with ECOSE® Technology
Product number	KI_DP_201
Other means of identification	None.

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

Identified uses	Thermal and/or acoustic insulation for use in : Technical applications, industrial applications and in building construction. Industrial (OEM) applications Domestic appliances industry

1.3. Details of the supplier of the safety data sheet

Supplier	PO Box 10, Stafford Road, St Helens Merseyside WA10 3NS United Kingdom www.knaufinsulation.com sds@knaufinsulation.com
Region	United Kingdom
Country Contact	+44 (0) 1744 766 666

1.4. Emergency telephone number

Emergency telephone	+44 (0) 1744 766 666

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

2.2. Label elements

Hazard statements Not Classified

The following sentences and pictograms are printed on packaging










http://www.knaufinsulation.com/comfort-and-handling

2.3. Other hazards

Specific hazards Not applicable.

Persistent Bioaccumulative Toxic Not relevant

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Rock Mineral Wool **90 - 100%**

CAS number:	_
EC number:	926-099-9
REACH registration number	2119472313-44-XXXX
EU index number	650-016-00-2
Classification	**Not Classified**

Ingredient notes (1) 650-016-00-2 - Man made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide ($Na_2O+K_2O+CaO+MgO+BaO$) content greater than 18% by weight meeting the requirements of Note Q of regulation n° 1272/2008 and therefore not classified as carcinogenic.

Thermo set, inert polymer bonding agent derived from plant starches **0 - 10%**

CAS number:	_
Classification	**Not Classified**

Full text of R-phrases: see section 16

Other information Possible facing or encapsulation materials: glass veil, or polyester mat or aluminium or Kraft paper or encapsulated in low density polyethylene (LDPE) and metallised LDPE film.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove from exposure. Rinse the throat and clear dust from airways.

Ingestion Drink plenty of water if accidentally ingested.

Skin contact If mechanical irritation occurs, remove contaminated clothing and wash skin gently with cold water and soap.

Eye contact Rinse abundantly with water for at least 15 minutes.

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

General information The mechanical effect of fibres in contact with skin may cause temporary itching.

4.3. Indication of any immediate medical attention and special treatment needed

General information If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water, foam, carbon dioxide (CO2), and dry powder.

5.2. Special hazards arising from the substance or mixture

General information Products do not pose a fire hazard in use; however, some packaging materials or facings may be combustible. Products of combustion from product and packaging - carbon dioxide, carbon monoxide and some trace gases such as ammonia, nitrogen oxides and volatile organic substances.

5.3. Advice for firefighters

General information In large fires in poorly ventilated areas involving packaging materials respiratory protection / breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions In case of presence of high concentrations of dust, use the same personal protective equipment as mentioned in section 8.

6.2. Environmental precautions

Environmental precautions Not relevant

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Vacuum cleaner or dampen down with water spray prior to brushing up.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions No specific measures. Preferably use a knife for cutting. If a power tool is used, provide appropriate exhaust ventilation at places of dust forming.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions To ensure optimum product performance; when packaging is removed or opened; products should be stored inside or covered to protect them from ingress of rain water or snow. Storage arrangements should ensure stability of stacked products and use on a first in first out basis (FIFO) is recommended.

Incompatible materials	No specific material or group of materials is likely to react with the product to produce a hazardous situation.

7.3. Specific end use(s)

Specific end use(s)	Thermal and/or acoustic insulation for use in : Technical applications, industrial applications and in building construction. Industrial (OEM) applications Domestic appliances industry

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits	**Rock Mineral Wool** Long-term exposure limit (8-hour TWA): WEL 2 fibres/ml 5 mg/m³ Machine-made mineral fibre (except for refractory ceramic fibres and special purpose fibres) WEL = Workplace Exposure Limit.

Exposure limit values have been established by many authorities. Check on limit values that apply in your local situation

8.2. Exposure controls/personal protection

Appropriate engineering controls	No specific measures.
Eye/face protection	Use goggles especially if working above shoulders. Eye protection according to EN 166 is advised.
Hand protection	Use gloves to avoid itching in conformity with EN 388.
Other skin and body protection	Cover exposed skin.
Hygiene measures	After contact, wash hands with cold water and soap.
Respiratory protection	Wearing a face mask type in accordance with EN 149 FFP1 is recommended when using products in confined atmosphere or during operations which can generate emission of any dust.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Solid. Roll or panel.
Colour	Brown.
Odour	Not relevant
Odour threshold	No data available.
pH	Not relevant
Melting point	> 1000 °C according to DIN 4102-17.
Initial boiling point and range	Not relevant

Flash point	Not relevant
Evaporation rate	Not relevant
Flammability (solid, gas)	Not relevant
Upper/lower flammability or explosive limits	Not relevant
Vapour pressure	Not relevant
Vapour density	Not relevant
Relative density	9 - 250 kg/m³
Solubility(ies)	Generally chemically inert and insoluble in water.
Auto-ignition temperature	Not relevant
Decomposition Temperature	Not relevant
Viscosity	Not relevant
Explosive properties	Not relevant
Oxidising properties	Not relevant

9.2. Other information

Devitrification temperature	Not relevant
Softening temperature	Not relevant
Nominal diameter of fibres	< 5 µm
Length weight geometric mean diameter less 2 standard errors	< 6 µm
Orientation of fibres	Random

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Binder will decompose above 200°C.

10.3. Possibility of hazardous reactions

None in normal conditions of use.

10.4. Conditions to avoid

Heating above 200 °C.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

None in normal conditions of use.

Decomposition of binder above 200°C may produce carbon dioxide and some trace gases. The duration of release is dependant upon the thickness of the insulation, binder content and the temperature applied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	The mechanical effect of coarse fibres in contact with skin, airways and eyes may cause temporary itching.
General information	Classification not applicable for this product; in accordance with European Regulation 1272/2008, note Q.

SECTION 12: Ecological Information

12.1. Toxicity

This product is not ecotoxic to air, water or soil, by composition.

12.2. Persistence and degradability

Inert inorganic product with Thermo set, inert polymer bonding agent derived from plant starches; 0 - 10%

12.3. Bioaccumulative potential

No bioaccumulation potential

12.4. Mobility in soil

Not considered mobile.

12.5. Results of PBT and vPvB assessment

Not relevant

12.6.Endocrine disrupting properties

Not relevant

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	The waste code is only applicable for waste product that has not been contaminated. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Non-hazardous waste [17 06 04]	insulation materials other than those mentioned in 17 06 01 and 17 06 03
Disposal methods	Dispose of in accordance with regulations and procedures in force in country of use or disposal.

SECTION 14: Transport information

General information	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant	None.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU Legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals
	Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006.
	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 SDS EU format according to COMMISSION REGULATION (EU) 2020/878
	The European Regulation on Chemicals No 1907/2006, Registration, Evaluation, Authorisation of Chemicals (REACH) enacted on June 1st 2007 requires the provision of Safety Data Sheet (SDS) for hazardous substances and mixtures / preparations.
	Knauf Insulation mineral wool products (panels, batts or rolls), are defined as articles under REACH and therefore a Safety Data Sheet for these products is not a legal requirement.
	In accordance with industry practice and voluntary commitments, Knauf Insulation has decided to continue to provide its customers with the appropriate information for the purpose of assuring safe handling and use of mineral wool throughout the product life.

15.2. Chemical safety assessment

Not applicable for article.

SECTION 16: Other information

General information	All products manufactured by Knauf Insulation are made of non-classified fibres and are certified by EUCEB.
	EUCEB, European Certification Board of Mineral Wool Products - www.euceb.org. The EUCEB trademark certifies that the manufactured fibres have a chemical composition within the ranges of exonerated reference fibres, which have been tested in accordance with European protocols and have been shown to be in conformity with Note Q, exoneration criteria for carcinogenicity, of the Regulation (EC) 1272/2008.

The mineral wool producers commit to EUCEB to:
• supply sampling and analysis reports established by laboratories recognized by EUCEB, proving that the fibres comply with one of the four criteria of exoneration described in Note Q,
• be controlled, twice per year, of each production unit by an independent third party recognized by EUCEB (sampling and conformity to the initial chemical composition),
• put in place procedures of internal self-control in each production unit.

Products meeting EUCEB certification requirements can be recognised by the EUCEB logo printed on the packaging.

Further information can be obtained from

www.euceb.org www.knaufinsulation.com

Revision comments	EU-Regulations
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Other information

In 2001, the International Agency for Research on Cancer (IARC) reclassified mineral wool fibres from Group 2B (possibly carcinogenic) to Group 3 «agent which cannot be classified as for their carcinogenicity to humans». (See Monograph Vol 81, http://monographs.iarc.fr/)

This Safety Data Sheet / Product Data Sheet does not constitute a workplace assessment. Information contained in this document represents the state of our knowledge regarding this product as of the date of issue of the document. Attention of users is drawn to possible risks taken when the product is used for other applications than the ones it has been designed for.