Rock Mineral Wool
with ECOSE® Technology
SAFETY DATA SHEET
Rock Mineral Wool with ECOSE® Technology

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

1.1. Product identifier
- Knauf Insulation Rock mineral wool.

Product name
Rock Mineral Wool with ECOSE® Technology

Product number
KI_DP_201

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.

1.3. Details of the supplier of the safety data sheet

Supplier
Knauf Insulation
Am Bahnhof
97346 Iphofen
Germany
sds@knaufinsulation.com
Tel: +32 4 379 02 31
www.knaufinsulation.com

Region
UK

Country Contact
Tel: +44 (0) 1744 766 666
technical.uk@knaufinsulation.com

1.4. Emergency telephone number

Emergency telephone
Tel: +44 (0) 1744 766 666
(Monday - Friday, 08:00 hrs - 17:00 hrs)
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 NC Not Classified

The following sentences and pictograms are printed on packaging

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

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

2.3. Other hazards

Specific hazards Not applicable.
**Rock Mineral Wool with ECOSE® Technology**

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Rock Mineral Wool</th>
<th>90 - 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: —</td>
<td>EC number: 926-099-9</td>
</tr>
<tr>
<td></td>
<td>REACH registration number: 01-2119472313-44-XXXX</td>
</tr>
<tr>
<td>EU index number: 650-016-00-2</td>
<td></td>
</tr>
<tr>
<td>Ingredient notes:(1)</td>
<td></td>
</tr>
</tbody>
</table>

**Classification**

Not Classified

<table>
<thead>
<tr>
<th>Thermo set, inert polymer bonding agent derived from plant starches</th>
<th>0 - 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: —</td>
<td></td>
</tr>
</tbody>
</table>

**Classification**

Not Classified

For full text of H-statements: see SECTION 16.

**Ingredient notes**

(1) 650-016-00-2 - 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 meeting the requirements of Note Q of regulation n° 1272/2008 and therefore not classified carcinogenicity.

CAS: Chemical Abstracts Service.

**Other information**

Possible facing materials: glass veil, or polyester mat or aluminium or Kraft paper, wired mats.
Rock Mineral Wool with ECOSE® Technology

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.
Rock Mineral Wool with ECOSE® Technology

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions: No specific measures. Cut using a knife, do not use a saw or use power tools. Avoid unnecessary handling of unwrapped product. Provide adequate ventilation.

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. Delivered packed in polyethylene film and or on wooden pallets.

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.

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

None at European level, refer to member state guidelines and legislation.

8.2. Exposure controls
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.
Rock Mineral Wool with ECOSE® Technology

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid. Roll or panel.</td>
</tr>
<tr>
<td>Colour</td>
<td>Ochre.</td>
</tr>
<tr>
<td>Odour</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Melting point</td>
<td>&lt; 1000 °C according to DIN 4102-17.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Relative density</td>
<td>30 - 250 kg/m³</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Generally chemically inert and insoluble in water.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not relevant.</td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter of fibres</td>
<td>&lt; 5 μm</td>
</tr>
<tr>
<td>Length weight geometric mean diameter less 2 standard errors</td>
<td>&lt; 6 μm</td>
</tr>
<tr>
<td>Orientation of fibres</td>
<td>Random</td>
</tr>
</tbody>
</table>
Rock Mineral Wool with ECOSE® Technology

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity None.

10.2. Chemical stability
Stability Binder will decompose above 200°C.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions None in normal conditions of use.

10.4. Conditions to avoid
Conditions to avoid Heating above 200 °C.

10.5. Incompatible materials
Materials to avoid None.

10.6. Hazardous decomposition products
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 fibres in contact with skin may cause temporary itching.

General information Classification not applicable for this product; in accordance with European Regulation 1272/2008, note Q.
Rock Mineral Wool with ECOSE® Technology

SECTION 12: Ecological Information

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

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

12.3. Bioaccumulative potential
Bioaccumulative potential Will not bioaccumulate.

12.4. Mobility in soil
Mobility Not considered mobile. Less than 1% leachable organic carbon if landfilled.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment Not relevant.

12.6. Other adverse effects
Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information [17 06 04] Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Disposal methods Dispose of in accordance with regulations and procedures in force in country of use or disposal.
SECTION 14: Transport information

General
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
No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.
Rock Mineral Wool with ECOSE® Technology

SECTION 15: Regulatory information

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

EU legislation


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 relevant.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
CAS: Chemical Abstracts Service.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
PBT: Persistent, Bioaccumulative and Toxic substance.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
UN: United Nations.
vPvB: Very Persistent and Very Bioaccumulative.
Rock Mineral Wool with ECOSE® Technology

General information

All products manufactured by Knauf Insulation are made of non-classified fibres and are certified by EUCER.

EUCER, European Certification Board of Mineral Wool Products - www.euceb.org. The EUCER 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, exonerations criteria for carcinogenicity, of the Regulation (EC) 1272/2008.

The mineral wool producers commit to EUCER to:

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

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

Further information can be obtained from

www.euceb.org    www.knaufinsulation.com

Revision comments

New document format

Revision date

29/05/2017

Revision

3.1

Supersedes date

28/09/2016

SDS number

4577

Construction Insulation Products (CST)


Technical Insulation Products (TI)

Wired Mats - Galvanised Steel, Wired Mats - Stainless Steel, High Temperature Boards, High Temperature Products, Standard Lamella Mats, High Compressive Strength Lamella Mats, Standard Duct Boards, Duct Rolls, Marine, Miscellaneous TI, Blocks, Tank Wall Boards, Tank Roof Boards, Pipe sections - Cut-From-Block, Pipe sections - Wound

Other information

In 2001, the International Agency for Research on Cancer (IARC) reclassified rock 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.