

Version

1.0

## Mineral Wool with ECOSE® Technology

Product name:	Mineral Wool with ECOSE® Technology	Page:	1/9
Revision Date:	2016-01-15	Print date:	2016-01-15
Product No.:	KI_DP_001	SDS-ID:	FRe-EN/1.0

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Knauf Insulation Mineral Wool with ECOSE® Technology

Product name: Mineral Wool with ECOSE® Technology

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

Identified use(s): 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

Head Office Knauf Insulation  
 Am Bahnhof  
 97346 Iphofen  
 Germany  
 Tel:+32 (0) 1048 8460  
 sds@knaufinsulation.com  
 www.knaufinsulation.com

Region: France

### 1.4. Emergency telephone number

Emergency telephone: ORFILA (INRS): + 33 (0)1 45 42 59 59

## SECTION 2: HAZARDS IDENTIFICATION

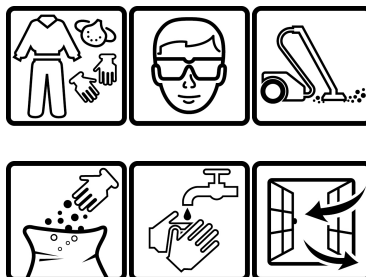
### 2.1. Classification of the substance or mixture

GHS/CLP CE N°1272/2008 The product is not classified.

### 2.2. Label elements

None.

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.

Product name:	Mineral Wool with ECOSE® Technology	Page:	2/9
Revision Date:	2016-01-15	Print date:	2016-01-15
Product No.:	KI_DP_001	SDS-ID:	FR-EN/1.0

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

GHS/CLP CE N°1272/2008

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No.:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
87-100	-	926-099-9	01-2119472313-44-XXXX-	Mineral Wool	-	(1), (2)
0 - 13	-	-	-	Thermo set, inert polymer bonding agent derived from plant starches	-	

Notes: (1) Man made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+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.  
(2) CAS-No.: Chemical Abstract Service

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.  
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.  
Ingestion: Drink plenty of water if accidentally ingested.

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

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

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

Product name:	Mineral Wool with ECOSE® Technology	Page:	3/9
Revision Date:	2016-01-15	Print date:	2016-01-15
Product No.:	KI_DP_001	SDS-ID:	FRe-EN/1.0

---

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

Extinguishing media: Water, foam, carbon dioxide (CO2), and dry powder.

### **5.2. Special hazards arising from the substance or mixture**

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**

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**

For personal protection, see section 8. For waste disposal, see section 13.

Product name:	Mineral Wool with ECOSE® Technology	Page:	4/9
Revision Date:	2016-01-15	Print date:	2016-01-15
Product No.:	KI_DP_001	SDS-ID:	FRe-EN/1.0

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## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Safe handling advice: Avoid unnecessary handling of unwrapped product.

Technical measures: No specific measures. Cut using a knife, do not use a saw or use power tools.

Technical precautions: Provide adequate ventilation.

### **7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions:

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.

No incompatible groups noted.

Delivered packed in polyethylene film and or on wooden pallets.

### **7.3. Specific end use(s)**

Specific use(s): Not relevant.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: None at European level, refer to member state guidelines and legislation:

### **8.1. Control parameters**

Occupational exposure limits: 1 fibre/ml

### **8.2. Exposure controls**

Engineering measures: No specific measures.

Respiratory equipment: 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.

Hand protection: Use gloves to avoid itching in conformity with EN 388.

Eye protection: Use goggles especially if working above shoulders. Eye protection according to EN 166 is advised.

Skin protection: Cover exposed skin.

Hygiene measures: After contact, wash hands with cold water and soap.

Product name: Mineral Wool with ECOSE® Technology  
Revision Date: 2016-01-15  
Product No.: KI\_DP\_001

Page: 5/9  
Print date: 2016-01-15  
SDS-ID: FRe-EN/1.0

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance: Solid.

Form: Rolls, loose fibre, Panel.

Colour: Ochre. / Brown.

Odour: Not relevant.

Odour threshold: Not relevant.

pH: Not relevant.

Melting point / freezing point: Not relevant.

Initial boiling point and boiling range: Not relevant.

Flash point: Not relevant.

Evaporation rate: Not relevant.

Upper/lower flammability or explosive limits: Not relevant.

Vapour pressure: Not relevant.

Vapour density: Not relevant.

Relative density: 7 - 250 kg/m<sup>3</sup>

Solubility: Generally chemically inert and insoluble in water.

Partition coefficient (n-octanol/water): Not relevant.

Auto Ignition Temperature (°C): Not relevant.

Decomposition temperature (°C): Not relevant.

Viscosity: Not relevant.

Explosive properties: Not relevant.

Oxidising properties: Not relevant.

### 9.2. Other information

Nominal diameter of fibres. < 5 µm  
Length weight geometric mean diameter less 2 standard errors: < 6µm  
Orientation of fibres: Random.

Product name: Mineral Wool with ECOSE® Technology  
Revision Date: 2016-01-15  
Product No.: KI\_DP\_001

Page: 6/9  
Print date: 2016-01-15  
SDS-ID: FRe-EN/1.0

---

## 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**

Hazardous Reactions: None in normal conditions of use.

### **10.4. Conditions to avoid**

Conditions/materials to avoid: Heating above 200 °C.

### **10.5. Incompatible materials**

Incompatible materials: 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**

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

Classification not applicable for this product; in accordance with European Regulation 1272/2008, note Q.

Product name:	Mineral Wool with ECOSE® Technology	Page:	7/9
Revision Date:	2016-01-15	Print date:	2016-01-15
Product No.:	KI_DP_001	SDS-ID:	FRe-EN/1.0

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## SECTION 12: ECOLOGICAL INFORMATION

### **12.1. Toxicity**

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

### **12.2. Persistence and degradability**

Degradability: Inert inorganic product with Thermoset, polymer bonding agent derived from plant starches; 0 - 13%

### **12.3. Bioaccumulative potential**

Bioaccumulative potential: Will not bio-accumulate.

### **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**

PBT/vPvB: Not relevant.

### **12.6. Other adverse effects**

Other adverse effects: None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### **13.1. Waste treatment methods**

Waste from residues: Dispose of in accordance with regulations and procedures in force in country of use or disposal.

Contaminated packaging: Dispose of in accordance with regulations and procedures in force in country of use or disposal.

EWC-code: 17 06 04, Non-hazardous substance.



Product name:	Mineral Wool with ECOSE® Technology	Page:	8/9
Revision Date:	2016-01-15	Print date:	2016-01-15
Product No.:	KI_DP_001	SDS-ID:	FRe-EN/1.0

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## SECTION 14: TRANSPORT INFORMATION

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

### **14.1. UN number**

UN-No: -

### **14.2. UN proper shipping name**

Proper Shipping Name: -

### **14.3. Transport hazard class(es)**

Class: -

### **14.4. Packing group**

Packing group: -

### **14.5. Environmental hazards**

Marine pollutant: -

Environmentally Hazardous substance: -

### **14.6. Special precautions for user**

Special precautions: None known.

### **14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Transport in bulk: Not relevant.

## SECTION 15: REGULATORY INFORMATION

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

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.

This material Safety Data Sheet / Product Data Sheet is in accordance with the EU directives 1907/2006, 1272/2008 and 453/2010.

### **15.2. Chemical Safety Assessment**

CSA status: Not relevant.

Product name:	Mineral Wool with ECOSE® Technology	Page:	9/9
Revision Date:	2016-01-15	Print date:	2016-01-15
Product No.:	KI_DP_001	SDS-ID:	FRe-EN/1.0

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## SECTION 16: OTHER 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](http://www.euceb.org), is a voluntary initiative by the mineral wool industry. It is an independent certification authority that guarantees that products are made of fibres, which comply with the exoneration criteria for carcinogenicity (Note Q) 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](http://www.euceb.org)  
[www.knaufinsulation.com](http://www.knaufinsulation.com)



### Product Families

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

### Additional information:

New document format Date: 15.01.2015

Moreover, in 2001, the IARC, reclassified mineral wool fibres from Group 2B (possibly carcinogenic) to «not classifiable as to their carcinogenicity to humans (Group 3)». (See Monograph Vol 81, <http://monographs.iarc.fr/>).

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The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.