

Product name:	Glass Mineral Wool	Page:	1/11
Revision Date:	2016-06-03	Print date:	2016-06-03
Product No.:	CL_DP_101	SDS-ID:	DEe-EN/3.0

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

1.1. Product identifier

climowool Glass mineral wool

Product name: Glass Mineral Wool

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 climowool GmbH
 Weststrasse 1
 D - 06406 Bernburg
 Tel:+ 3471 3645 100
 Fax:+ 3471 3645 290
 sds@knaufinsulation.com
 www.climowool.com

Region: Germany

1.4. Emergency telephone number

Emergency telephone: + 49 172 6353625
 Giftzentrale Nuremberg, Tel: +49 911 398 2451

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SECTION 2: HAZARDS IDENTIFICATION

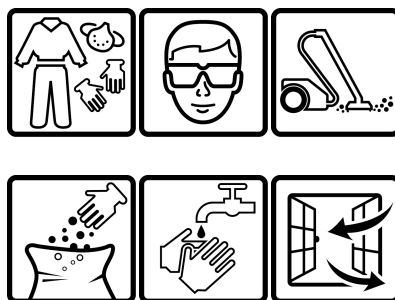
2.1. Classification of the substance or mixture

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

2.2. Label elements

The product is 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: N/A.

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-	Glass 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 (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.
(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

<u>Inhalation:</u>	Remove from exposure. Rinse the throat and clear dust from airways.
<u>Skin contact:</u>	If mechanical irritation occurs, remove contaminated clothing and wash skin gently with cold water and soap.
<u>Eye contact:</u>	Rinse abundantly with water for at least 15 minutes.
<u>Ingestion:</u>	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.

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.

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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.

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.

Delivered packed in polyethylene film and or on wooden pallets.

No incompatible groups noted.

7.3. Specific end use(s)

Specific use(s): Not relevant.

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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:

<u>CAS- No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
-	Particulates not otherwise regulated (PNOR), total dust	-	10 mg/m3	AGW	2(II)	TRGS 900
-	Particulates not otherwise regulated (PNOR), respirable fraction	-	3 mg/m3	AGW	2(II)	TRGS 900

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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Solid.
Form: Rolls, loose fibre, Panel.
Colour: Brown.
Odour: Not relevant.
pH: Not relevant.
Boiling point: Not relevant.
Flash point: Not relevant.
Flammability (solid, gas): Not relevant.
Explosive limits Not relevant.
Relative density: 9 - 90 kg/m³
Solubility: Generally chemically inert and insoluble in water.

9.2. Other information

Nominal diameter of fibres. : 3 - 5 µm

Length weight geometric mean diameter less 2 standard errors: < 6 µm

Orientation of fibres: Random.

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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.
Classification not applicable for this product; in accordance with EUCEB & RAL requirements – see section 16.

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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 Thermo set, inert 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

Not relevant.

12.6. 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.

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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

PG: -

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.

climowool 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, climowool 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.

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SECTION 16: OTHER INFORMATION

All products manufactured by climowool are made of non-classified fibres and are certified by EUCEB.

EUCEB, European Certification Board of Mineral Wool Products - 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.

The RAL quality mark for "products made of mineral wool" indicates that the quality and safety of mineral wool products is checked by an independent third party; the Gütegemeinschaft Mineralwolle e.V. (GGM). This organisation regularly checks that the manufacturer of the mineral wool is meeting the requirements of the exemption criteria given in the German "Hazardous Substances Ordinance" (Gefahrstoff-Verordnung) for bio-soluble fibres. The RAL quality mark is an indication that products can be used and handled safely without health hazards. All mineral wool products manufactured by Knauf Insulation and included in this safety data sheet comply with RAL requirements.

Further information can be obtained from:

www.Eurima.org
www.climowool.com



Product Families

: KF3, KF2, KF1, UF3/V, UF2/V, TW1, TW1E, TWR1, TWR33-N, TW2, TW3, TFP, KD3/V, KD2/V, KD1/V, FD3/V, FD2/V, FD1/V, SSP1, SSP1/V, EP, WKP3, WKP2, WKP1, WKR3, WKR2, WKR1, HRF2, HRF1, DF44, DF42, DF37, DF33, DF3, DF2, DF1, DF-RF3/hV, DF-RF2/hV, Automotive

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Additional information: Change to Sections: 2.1, 2.2, 2.3, 3.2, 4.1, 5.3, 8.1, 11.1, 12.2, 15.1, 16New document format Date: 03.06.2016
Date of previous revisions: 11.06.2013, 09.10.2013

Moreover, in 2001, the IARC, reclassified glass 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/>).

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.
