Version 1.0

Glass Mineral Wool with ECOSE ® Technology

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

1.1. Product identifier

Knauf Insulation Glass mineral wool

Product name: Glass 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 Exeed Insulation LLC

ICAD 1

P.O.Box: 3 Abu Dhabi

1.4. Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

67/548/EEC: The product is not classified.

GHS/CLP: The product is not classified.

2.2. Label elements

There are no Risk Phrases associated with this product.

The following sentences and pictograms are printed on packaging:

Cover exposed skin. When working wear disposable face mask.

Rinse in cold water before washing.

Clean using vacuum equipment. unventilated area

Ventilate working area if possible.

Waste should be disposed of according to local regulations.

Wear goggles when working overhead.

2.3. Other hazards

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

Specific hazards: N/A.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

67/548/EEC:

%:	CAS-No.:	EC No.:	REACH Reg. No:	Chemical name:	Hazard classification:	Notes:
87-100	926-099-9		01-2119472313-0-13	Glass Mineral Wool Thermo set, inert polymer bonding agent derived from plant starches	- -	(1), (2), (3)

GHS/CLP:

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bonding agent derived from
plant starches

Notes: (1) Mineral wool man (machine) made vitreous fibre (mmvf), alkali and alkaline earth (CaO + MgO + NaO + K2O) > 18 % in weight meeting the requirements of European legislation, Note Q of directive 97/69/EEC and Classification, Labelling and Packaging (CLP), 1272/2008.

(2) CAS-No.: Chemical Abstract Service

(3) Glass mineral wool insulation fibres are not classified carcinogenic according to European regulation n° 1272/2008 (page 335 of the JOCE L353 of December 31, 2008).

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 blow nose to clear dust.

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.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Water, foam, carbon dioxide (CO_2), 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 or involving packaging materials respiratory protection / breathing apparatus may be required.

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.

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No incompatible groups noted.

7.3. Specific end use(s)

Specific use(s): Not relevant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: Refer to local legislation.

8.1. Control parameters

Glass mineral wool: Refer to local legislation.

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.

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.
Explosion limits:	Not relevant.
Relative density:	9 - 35 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.

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

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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 directive 97/69/EC and 1272/2008, nota Q. Weighted clearance half life of fibres, with length greater than 20μm after intra-tracheal instillation, is less than 40 days (result obtained from a test conform to the European protocol).

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; 5 - 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.

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EWC-code: Non-hazardous substance.

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 73/78 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 Exeed 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 Exeed Insulation has decided to continue to provide its customers with the appropriate information for the purpose of assuring safe handling and use ofmineral wool throughout the product life.

This material Safety Data Sheet / Product Data Sheet is in accordance with the EU directives 67/548/EEC, 1999/45/EEC, 1907/2006, 1272/2008 and 453/2010.

15.2. Chemical Safety Assessment

CSA status: Not relevant.

SECTION 16: OTHER INFO RMATION

All products manufactured by Knauf Exeed Insulation 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 Directive 97/69/EC and the Regulation (EC) 1272/2008.

To ensure that fibres comply with the exoneration criteria all tests and supervision procedures are carried out by independent, expert qualified institutions. EUCEB ensures that the producers of mineral wool have put in place self-control measures.

The mineral wool producers commit to EUCEB to:

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• 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 of the Directive 97/69/EC,

• 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

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

Product Families	Glass wool Batts, Acoustic Insulation, Duct Wrap, Duct Liner, Sandwich panel, Mechanical Board Insulation, Metal Building Insulation, Building Blanket, Partition wall Insulation, Flexible Duct, Pipe wrap Insulation, Sectional Pipe Insulation, Cavity wall Insulation
Additional information:	Change to Sections: New document format

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.