

## 1. Identification

### 1.1 Product identifier

Product Name:	Glass Mineral Wool with ECOSE® Technology
Other means of identification:	KI_DP_101
Product variants:	Knauf Insulation
Region:	India

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

Thermal &/or acoustic insulation for use in:	Technical applications, industrial applications and in building construction
Uses advised against:	None specified

### 1.3 Details of the supplier of the safety data sheet

Manufacturer Supplier:	<i>Knauf Insulation Sdn. Bhd.</i> PLO157, Jalan Teruntum 4, Tanjung Langsat Industrial Area, 81700 Pasir Gudang, Johor, Malaysia Company registration number: 201401006359 (1082442-W) <a href="http://www.knauf.com/en-IN/knauf-insulation">www.knauf.com/en-IN/knauf-insulation</a>
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Further information obtainable from:	<a href="mailto:info.in@knaufinsulation.com">info.in@knaufinsulation.com</a>
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### 1.4 Emergency telephone number

Mon - Fri (08.30 - 17.00 MYT):	+60 7-838 1000
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## 2. Hazard(s) identification

### 2.1 Classification of the substance or mixture

This product is not classified, according to the Globally Harmonized System (GHS)

### 2.2 Label elements

GHS label elements:	None
Hazard pictograms:	None
Signal word:	None
Hazard statements:	None
Precautionary statements:	None



Minimise direct contact with skin in order to prevent mechanical itching. In dusty environments use suitable respiratory protection.



After contact with the product, rinse skin in cold water to reduce potential effects of mechanical itching.



In dusty environments use vacuum equipment where possible to minimise dust levels.



Where possible, use natural ventilation during installation in order to minimise dust levels.



Dispose of surplus product in accordance with local regulations.



Use glasses or goggles when working with mineral wool insulation above shoulder height or in dusty environments.

**Glass Mineral Wool with ECOSE® Technology****2.3 Other hazards (Mechanical irritation of the skin, eyes, and upper respiratory system)**

**Results of PBT and vPvB assessment:** The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**3. Composition/information on ingredients****3.1 Chemical characterisation: Mixtures**

**Hazardous Components:** No Hazardous components

**Nonhazardous components:**

Low bio persistence glass mineral wool (1) 87 - 100%

Thermo set, inert polymer bonding agent derived from plant starches 0 - 13%

**Additional information:**

(1) Low bio persistence fibres are defined as synthetic mineral fibres (Man-Made Vitreous (Silicate) Fibres) that have been tested according to the test protocol Methods for the Determination of the Hazardous Properties for Human Health of Man-Made Mineral Fibres April 1999 (EUR 18748 EN) and found to comply to the test requirements.

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

**4. First-aid measures****4.1 Description of first-aid measures**

**General information:** Show this material safety data sheet to the doctor in attendance. If symptoms occur, follow first aid measures as appropriate.

**After inhalation:** Remove from exposure. Rinse the throat and clear dust from airways.

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

**After eye contact:** Rinse abundantly with water for at least 15 minutes.

**After swallowing:** Wash out mouth with water and afterwards drink plenty of water.

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

Mechanical irritation of the skin, eyes and upper respiratory system.

Any additional important symptoms and effects are described in Section 11: Toxicological Information.

**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. Get medical advice/attention if you feel unwell.

**5. Fire-fighting measures****5.1 Extinguishing media**

**Suitable extinguishing agents:** Water spray. Dry powder. Foam. Carbon dioxide.

**For safety reasons unsuitable extinguishing agents:** None.

**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.

**5.4 Protective equipment**

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Minimise direct contact with skin in order to prevent mechanical itching. In dusty environments, use suitable respiratory protection such as 3M 8210, N95 or equivalent. Use glasses or goggles when working with mineral wool insulation above shoulder height or in dusty environments. Where possible, use natural ventilation during installation in order to minimise dust levels.

After contact with the product, rinse skin in cold water to reduce potential effects of mechanical itching. Dispose of surplus product in accordance with local regulations.

**Environmental precautions:** None

#### Methods and material for containment and cleaning up:

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

#### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7. Handling and storage

#### 7.1 Precautions for safe handling

Assure proper respiratory protection if potential dust exposure exceeds occupational exposure limits.

**Information about fire and explosion protection:** No special measures required.

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

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.

#### 7.3 Storage

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** No special storage requirements.

#### Further information about storage conditions:

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 7.4 Specific end use(s)

**Thermal and/or acoustic insulation for use in:** Technical applications, industrial applications and in building construction.

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

##### Ingredients with limit values that require monitoring at the workplace:

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

##### Regulatory information:

Monitoring of substance concentrations in air at the workplace may be necessary to ensure compliance with official exposure limit values and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. For further information contact the supplier or the competent authorities.

#### 8.2 Exposure controls

##### Appropriate engineering controls:

Maintain sufficient mechanical or natural ventilation to assure fibre concentrations remain below TWA/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices.

##### Personal protective equipment:

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Protection of hands:** Minimise direct contact with skin in order to prevent mechanical itching.

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<b>Material of gloves:</b>	Protective gloves (EN 374)
<b>Penetration time of glove material:</b>	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
<b>Eye protection:</b>	Use glasses or goggles when working with mineral wool insulation above shoulder height or in dusty environments.
<b>Body protection:</b>	Protective work clothing
<b>General protective and hygienic measures:</b>	After contact with the product, rinse skin in cold water to reduce potential effects of mechanical itching.

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information**

<b>Physical state:</b>	Solid
<b>Colour:</b>	Brown
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	No data available.
<b>Melting point/freezing point:</b>	Not applicable.
<b>Initial boiling point and boiling range:</b>	Not applicable.
<b>Flash point:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable.
<b>Flammability:</b>	Not applicable.

**Explosion limits:****Lower:** Not applicable.**Upper:** Not applicable.**Vapour pressure:** Not applicable**Vapour pressure:**

<b>Vapour density:</b>	Not applicable.
<b>Density:</b>	Not determined
<b>Relative density:</b>	Not determined.
<b>Bulk density:</b>	8 - 48 kg/m <sup>3</sup>
<b>Partition coefficient:</b>	n-octanol/water: Not determined
<b>Auto-ignition temperature:</b>	Not applicable.
<b>Decomposition temperature:</b>	Not applicable.

**Viscosity:****Kinematic:** Not applicable**Dynamic:** Not applicable

**Particle characteristics:** Nominal diameter of fibres: 3 - 5 µm  
 Length weight geometric mean diameter less 2 standard errors: < 6 µm  
 Orientation of fibres: Random  
 Biopersistence: Weighted clearance half-life of fibres, with length greater than 20µm after inter-tracheal instillation, is less than 40 days (results obtained from a test).

**9.2 Other information****Appearance:****Form:** Solid. Rolls. Batts.

**Glass Mineral Wool with ECOSE® Technology****Important information on protection of health and environment, and on safety:**

<b>Ignition temperature:</b>	Not applicable.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Change in condition</b>	
<b>Softening point/range</b>	
<b>Oxidizing properties:</b>	Not applicable.

**Important with regard to physical hazard classes:**

<b>Explosives:</b>	None
<b>Flammable gases:</b>	None
<b>Aerosols:</b>	None
<b>Oxidising gases:</b>	None
<b>Gases under pressure:</b>	None
<b>Flammable liquids:</b>	None
<b>Flammable solids:</b>	None
<b>Self-reactive substances and mixtures:</b>	None
<b>Pyrophoric liquids:</b>	None
<b>Pyrophoric solids:</b>	None
<b>Self-heating substances and mixtures:</b>	None
<b>Substances and mixtures, which emit flammable gases in contact with water:</b>	None
<b>Oxidising liquids:</b>	None
<b>Oxidising solids:</b>	None
<b>Organic peroxides:</b>	None
<b>Corrosive to metals:</b>	None
<b>Desensitised explosives:</b>	None

**10. Stability and reactivity**

<b>Reactivity:</b>	No further relevant information available.
<b>Chemical stability:</b>	Binder will decompose above 200°C.
<b>Possibility of hazardous reactions:</b>	None under normal use.
<b>Conditions to avoid:</b>	None under normal use.
<b>Incompatible materials:</b>	Hydrofluoric acid will react with and dissolve glass.
<b>Hazardous decomposition products:</b>	None under normal 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.

**11. Toxicological information****11.1 Information on toxicological effects**

<b>Acute toxicity:</b>	
<b>LD/LC50 values:</b>	No data were identified for the product as a whole. Data are for constituents: Biosoluble glass mineral wool - Not applicable. Thermo set, inert polymer bonding agent derived from plant starches. - Not applicable.
<b>Skin corrosion/irritation:</b>	May cause mechanical irritation to skin. Data are for constituents: Biosoluble glass mineral wool - Not applicable. Thermo set, inert polymer bonding agent derived from plant starches. - Not applicable
<b>Serious eye damage/irritation:</b>	May cause mechanical irritation to eyes. Data are for constituents: Biosoluble glass mineral wool - Not applicable. Thermo set, inert polymer bonding agent derived from plant starches. - Not applicable
<b>Respiratory tract:</b>	Mechanical irritation to upper respiratory tract.
<b>Respiratory or skin sensitisation:</b>	No data were identified for this product or its constituents.

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<b>Germ cell mutagenicity:</b>	No data were identified for this product or its constituents.
<b>Carcinogenicity:</b>	These fibers have been tested according to the test protocol Methods for the Determination of the Hazardous Properties for Human Health of Man-Made Mineral Fibres April 1999 (EUR 18748 EN). The test results meet the requirements; thus this product is not classified as a carcinogen. None of the components of this product are listed as a carcinogen.
<b>Reproductive toxicity:</b>	No data were identified for this product or its constituents.
<b>STOT-single exposure:</b>	No data were identified for this product or its constituents.
<b>STOT-repeated exposure:</b>	No data were identified for this product or its constituents.
<b>Aspiration hazard:</b>	No data were identified for the product as a whole. Data are for constituents: Biosoluble glass mineral wool - Not applicable. Thermo set, inert polymer bonding agent derived from plant starches. - Not applicable

**11.2 Additional toxicological information:****Symptoms related to the physical, chemical and toxicological characteristics:**

Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble glass mineral wool is classified as a nuisance dust by OSHA.

**11.3 Information on other hazards**

**Endocrine disrupting properties:** None of the ingredients is listed.

**12. Ecological information**

<b>Toxicity:</b>	This product is not ecotoxic to air, water or soil, by composition.
<b>Aquatic toxicity:</b>	No relevant information available.
<b>Persistence and degradability:</b>	Inert inorganic product with Thermo set, inert polymer bonding agent derived from plant starches; 0 - 13%
<b>Bioaccumulative potential:</b>	No further relevant information available.
<b>Mobility in soil:</b>	Not relevant.
<b>Results of PBT and vPvB assessment:</b>	
<b>PBT:</b>	Not applicable.
<b>vPvB:</b>	Not applicable.
<b>Endocrine disrupting properties:</b>	The product does not contain substances with endocrine disrupting properties.
<b>Other adverse effects:</b>	No further relevant information available.

**13. Disposal considerations**

<b>Recommendation:</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Uncleaned packaging:</b>	
<b>Recommendation:</b>	Disposal must be made according to official regulations.

**14. Transport information**

<b>UN-Number</b>	
<b>IMDG, IATA:</b>	Not applicable.
<b>UN proper shipping name</b>	
<b>ADR, IMDG, IATA:</b>	Not applicable.
<b>Transport hazard class(es)</b>	
<b>Class:</b>	Not applicable.

**Glass Mineral Wool with ECOSE® Technology****Packing group**

**IMDG, IATA:** Not applicable.

**Environmental hazards:** Not applicable.

**Special precautions for user:** Not applicable.

**UN "Model Regulation":** Not applicable.

**15. Regulatory information****Directive 2012/18/EU**

**Named dangerous substances - ANNEX I:** None of the ingredients are listed.

**16. Other Information**

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.

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). The EUCEB trademark certifies that the manufactured fibres have a chemical composition within the ranges of exonerated reference fibres, which have been tested according to the test protocol Methods for the Determination of the Hazardous Properties for Human Health of Man-Made Mineral Fibres April 1999 (EUR 18748 EN).

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.

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/>)

**16.1 Abbreviations and acronyms:**

<b>ADR:</b>	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
<b>IMDG:</b>	International Maritime Code for Dangerous Goods
<b>IATA:</b>	International Air Transport Association
<b>EINECS:</b>	European Inventory of Existing Commercial Chemical Substances
<b>ELINCS:</b>	European List of Notified Chemical Substances
<b>CAS:</b>	Chemical Abstracts Service (division of the American Chemical Society)
<b>LC50:</b>	Lethal concentration, 50 percent
<b>LD50:</b>	Lethal dose, 50 percent
<b>PBT:</b>	Persistent, Bioaccumulative and Toxic
<b>vPvB:</b>	very Persistent and very Bioaccumulative

**16.2 Sources**

ChemAdvisor LOLI

Hazardous Substances Information System (HSIS)

European Chemicals Agency (ECHA) Dissemination Portal

European Certification Board for Mineral Wool Products (EUCEB)

**Knauf Insulation Sdn Bhd**

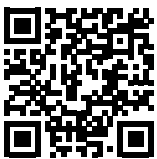
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