Revision date 6/25/2024 Revision 5.0

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SAFETY DATA SHEET

Mineral Wool with ECOSE® Technology

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

Product identifier

Product name Mineral Wool with ECOSE® Technology

Product number KI_DP_101

Other means of identification None.

Synonyms; trade names Earthwool®, Earthwool® glasswool, ecoinsulation®, DriTherm®, Knauf Insulation

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.

Details of the supplier of the safety data sheet

Supplier PO Box 244 Cannon Hill

Brisbane QLD 4170

Australia

www.knaufinsulation.com.au/www.knaufinsulation.co.nz

sds@knaufinsulation.com

Region Australia / New Zealand

Country Contact tech.au@knaufinsulation.com / tech.nz@knaufinsulation.com

Emergency telephone number

Emergency telephone Tel +61 (0) 7 3393 7300

(Monday - Friday - 08:00 hrs - 17:00 hrs)

SECTION 2: Hazards identification

Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

Classification according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) 3rd Rev. Ed.

Classification according to GHS Not Classified

Label elements

Hazard statements Not Classified

ContainsNone.Hazard pictogramNone.Signal wordNone.Precautionary statementsNone.Supplemental label informationNone.

Other hazards

Physical hazards None.

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

Environmental hazards None

Most important symptoms/effects Mechanical irritation of the skin, eyes and upper respiratory system.

Persistent Bioaccumulative Toxic Not relevant

SECTION 3: Composition/information on ingredients

Mixtures

Biosoluble glass mineral wool	(1) 87 - 100%
CAS number:	_
Classification	Not Classified
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 as carcinogenic.
Thermo set, inert polymer bonding agent derived from plant starches	
CAC acceptant	0 - 13%
CAS number: Classification	_ Not Classified

Full text of R-phrases: see section 16

Other information 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

Description of first aid measures

General information Show this Safety Data Sheet to the medical professional in attendance. If symptoms occur,

follow first aid measures as appropriate.

Inhalation Remove from exposure. Rinse the throat and clear dust from airways.

Ingestion Wash out mouth with water and afterwards drink plenty of water

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.

Most important symptoms and effects, both acute and delayed

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

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

Extinguishing media

Suitable extinguishing media Water, foam, carbon dioxide (CO2), and dry powder.

Unsuitable extinguishing media None.

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.

Advice for firefighters

General information In large fires in poorly ventilated areas involving packaging materials respiratory protection /

breathing apparatus may be required.

Hazchem code Not applicable

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions 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.

Emergency proceduresUse personal protection recommended in Section 8 of the SDS.

Environmental precautions

Environmental precautions Not relevant

Methods and material for containment and cleaning up

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

Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Usage precautions Assure proper respiratory protection if potential dust exposure exceeds occupational

exposure limits.

Conditions for safe storage, including any incompatibilities

Storage precautionsTo 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.

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

Control parameters

Occupational exposure limits Biosoluble glass mineral wool

Exposure standards (Safe Work Australia): Long-term exposure limit (8-hour TWA) 2 mg/m3 (inhalable dust) (A3)

Any MMVF that meet the requirements of Note Q in EC Regulation No. 1272/2008 page 353/335 are exempted from mandatory classification in the European Union as a carcinogen under the Globally Harmonized System for Classification and Labelling of Chemicals (GHS). Note IARC has classified mineral wools (glass wool, rock wool (stone wool), slag wool and continuous glass filament) as IARC Category 3: not classifiable as to carcinogenicity in humans.

New Zealand Workplace Exposure Standards: Long-term exposure limit (8-hour TWA) 2 mg/m3

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

Notes (A3) – Fibers longer than 5 μm; diameter less than 3 μm; aspect ratio greater than 5:1 as

determined by the membrane filter method at 400-450X magnification (4-mm objective)

phase contrast illumination.

Exposure controls/personal protection

Appropriate engineering controls Maintain sufficient mechanical or natural ventilation to assure fiber concentrations remain

below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with

properly designed dust collection devices.

Eye/face protectionUse glasses or goggles when working with mineral wool insulation above shoulder height or

in dusty environments.

Other skin and body protection Minimize direct contact with skin in order to prevent mechanical itching.

Hygiene measures After contact with the product, rinse skin in cold water to reduce potential effects of

mechanical itching.

Respiratory protection In dusty environments, use suitable respiratory protection.

Environmental exposure controls Not relevant

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Solid. Rolls. Panel. Loose fibre.

Colour Brown

Odour Not relevant

Odour threshold No data available.

pH Not relevant

Melting point Not relevant

Initial boiling point and range Not relevant

Flash point Not relevant

Evaporation rate Not relevant

Flammability (solid, gas) Not relevant

Upper/lower flammability or

explosive limits

Not relevant

Vapour pressure Not relevant
Vapour density Not relevant

Relative density 7 - 96 kg/m³

Solubility(ies) Generally chemically inert and insoluble in water.

Auto-ignition temperature Not relevant

Decomposition Temperature Not relevant

Viscosity Not relevant

Explosive properties Not relevant

Oxidising properties Not relevant

Other information

Devitrification temperature Not relevant

Softening temperature Not relevant

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 20 µm after inter-tracheal

instillation, is less than 40 days (results obtained from a test conforming to the European

protocol).

SECTION 10: Stability and reactivity

Reactivity None.

Chemical stability Binder will decompose above 200°C.

Possibility of hazardous reactionsNone under normal use

Conditions to avoid None under normal use

Incompatible materials Hydrofluoric acid will react with and dissolve glass.

Hazardous decomposition products

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.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity (oral) - LD50 oral 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.

Acute toxicity (dermal) - LD50

dermal

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.

Acute toxicity (inhalation) - LC50

Inhalation

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.

May cause mechanical irritation to skin Skin corrosion/irritation

May cause mechanical irritation to eyes. Serious eye damage/irritation

Respiratory sensitization No data were identified for this product or its constituents.

Skin sensitization No data were identified for this product or its constituents.

Germ cell mutagenicity

Genotoxicity - in vitro No data were identified for this product or its constituents. No data were identified for this product or its constituents. Genotoxicity - in vivo

SWA / WES requirements exempt biopersistant fibres as defined by notes. Results from a biopersistence Carcinogenicity

test in line with the notes has shown that fibres in this product longer than 20 µm have a weighted halflife less than 40 days and meet the "Nota Q" requirements, thus this product is not classified as a carcinogen. None of the components of this product Reproductive toxicity are listed as a carcinogen.

Reproductive toxicity

Reproductive toxicity - Fertility

Developmental toxicity

No data were identified for this product or its constituents. No data were identified for this product or its constituents.

Specific target organ toxicity -

single exposure

No data were identified for this product or its constituents.

Specific target organ toxicity -

repeated exposure

No data were identified for this product or its constituents.

Not relevant **Aspiration hazard**

Inhalation Mechanical irritation to upper respiratory tract.

Ingestion Non-hazardous when ingested. Skin contact Mechanical irritation to skin. Mechanical irritation to eyes. **Eve contact**

Most important symptoms/effects Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble glass

mineral wool is classified as a nuisance dust by OSHA.

SECTION 12: Ecological Information

Toxicity

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

Persistence and degradability

Inert inorganic product with Thermo set, inert polymer bonding agent derived from plant starches; 0 - 13%

Bioaccumulative potential

No bioaccumulation potential

Mobility in soil Not considered mobile.

Results of PBT and vPvB assessment

Not relevant

Endocrine disrupting properties

Not relevant

Other adverse effects None known.

SECTION 13: Disposal considerations

Waste treatment methods

General information Dispose of in accordance with regulations and procedures in force in country of use or

disposal.

For residues Dispose of in accordance with regulations and procedures in force in country of use or

disposal.

Empty containers should be taken to an approved waste handling site for recycling or Contaminated packaging

disposal.

Disposal methods May be disposed in landfill.

SECTION 14: Transport information

General information The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

UN number Not applicable

UN proper shipping name Not applicable

Transport hazard class(es) No transport warning sign required.

Packing group Not applicable

Environmental hazards

Environmentally hazardous substance/marine pollutant None.

Special precautions for user Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

National Regulations International agreements:

Montreal Protocol (Ozone depleting substances): Not regulated.

The Stockholm Convention (Persistent Organic Pollutants): Not regulated. The Rotterdam Convention (Prior Informed Consent): Not regulated.

Basel Convention (Hazardous Waste): Not regulated.

International Convention for the Prevention of Pollution from Ships (MARPOL): Not

regulated.

Safety, Health and Environmental Regulations:

Australian Inventory of Chemical Substances (AICS): Listed.

In accordance with industry practice, 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.

SECTION 16: Other information

Label in accordance with GHS: This product is not classified as hazardous.

General 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. The EUCEB 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, exoneration criteria for carcinogenicity, 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

















Key literature references and

sources for data

ChemAdvisor LOLI

Hazardous Substances Information System (HSIS) European Chemicals Agency (ECHA) Dissemination Portal European Certification Board for Mineral Wool Products (EUCEB)

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Other information

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/)

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.