



## SAFETY DATA SHEET Rock Mineral Wool Products

### SECTION 1: Identification: Product identifier and chemical identity

#### Product identifier

<b>Product name</b>	Rock Mineral Wool Products
<b>Product No.</b>	KI_DP_501
<b>Synonyms; trade names</b>	*Board, *LX, *Lamella (* all product names would have one of the following prefixes describing product families: PBE, DRS, DAP, CHM, TSP, RSB, MCH, CNF, CTL, WWC, AUT, HTC, SPA ).
<b>Revision date</b>	17/08/2017

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

<b>Application</b>	Thermal, fire and/or acoustic insulation for use in technical & industrial applications, building construction and in other similar applications.
<b>Uses advised against</b>	None known.

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

<b>Supplier</b>	Knauf Insulation Pty Ltd Unit 1, 44 Borthwick Avenue Murarrie QLD 4170 Australia Tel: +61 7 3393 7300 OEM: oem@knaufinsulation.com www.oem.knaufinsulation.com sds@knaufinsulation.com www.knaufinsulation.com.au
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<b>Region</b>	Australia
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#### Emergency telephone number

<b>Emergency telephone</b>	Tel: +61 7 3393 7300 (Monday - Friday - 08:00 hrs - 17:00 hrs) (Australian Eastern Standard Time - AEST (UTC+10))
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## Rock Mineral Wool Products

<b>SECTION 2: Hazard(s) identification</b>
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**Classification of the substance or mixture**

<b>Physical hazards</b>	Not Classified
<b>Health hazards</b>	Not Classified
<b>Environmental hazards</b>	Not Classified

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

**Classification according to GHS**

The product is not classified.

**Label elements**

<b>Hazard statements</b>	NC Not Classified
<b>Contains</b>	None.
<b>Hazard pictogram</b>	None.
<b>Signal word</b>	None.
<b>Precautionary statements</b>	None.
<b>Supplemental label information</b>	None.

**Product handling precautions for encapsulated products**

When cutting manually by a cutter, be careful so that dust does not scatter.

Make sure to place left over rock mineral wool into a bag, so dust does not become scattered. For disposal of industrial waste, please use a supplier which is authorised to handle these types of waste.

When storing the product please use some type of underlay, and also do not place heavy objects on top of the product.

When thinking about using the product for other applications, please consult first, by visiting our website [www.knaufinsulation.com.au](http://www.knaufinsulation.com.au)



**Other hazards**

<b>Physical Hazards</b>	None.
<b>Health Hazards</b>	Mechanical irritation of the skin, eyes and upper respiratory system.
<b>Environmental Hazards</b>	None.
<b>Main Symptoms</b>	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble rock mineral wool is generally considered to be a nuisance dust.

## Rock Mineral Wool Products

### SECTION 3: Composition and information on ingredients

#### Mixtures

<b>Biosoluble rock mineral wool</b> <span style="float: right;"><b>90-100%</b></span> CAS number: —  Ingredient notes:(1)
<b>Classification</b> Not Classified
<b>Thermo set, inert polymer based on cured phenol formaldehyde resin</b> <span style="float: right;"><b>0-10%</b></span> CAS number: —
<b>Classification</b> Not Classified

The full text for all hazard statements is displayed in Section 16.

#### Ingredient notes

(1) Man made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide ( $\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$ ) content greater than 18% by weight meeting the requirements of Note Q of regulation n° 1272/2008 and therefore not classified carcinogenicity.

#### Other information

Possible facing materials: glass veil, or polyester mat or aluminium or Kraft paper, wired mats.

## Rock Mineral Wool Products

### SECTION 4: First aid measures

#### Description of first aid measures

<b>General information</b>	Show this Safety Data Sheet to the medical professional in attendance. If symptoms occur, follow first aid measures as appropriate.
<b>Inhalation</b>	Remove from exposure. Rinse the throat and clear dust from airways.
<b>Ingestion</b>	Drink plenty of water if accidentally ingested.
<b>Skin Contact</b>	If mechanical irritation occurs, remove contaminated clothing and wash skin gently with cold water and soap.
<b>Eye contact</b>	Rinse abundantly with water for at least 15 minutes.

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

<b>General information</b>	Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble rock mineral wool is generally considered to be a nuisance dust.
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#### Indication of any immediate medical attention and special treatment needed

<b>General information</b>	If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.
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### SECTION 5: Firefighting measures

#### Extinguishing media

**Suitable extinguishing media** Water, foam, carbon dioxide (CO<sub>2</sub>), and dry powder.

**Unsuitable extinguishing media** None specified.

#### 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.

## Rock Mineral Wool Products

### 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 procedures** Use 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** In dusty environments, use vacuum equipment where possible to minimise dust levels.

#### 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, including how the chemical may be safely used

#### Precautions for safe handling

**Usage precautions** Assure proper respiratory protection if dust potential exceeds TWA/TLV.

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

**Storage precautions** 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.

#### Specific end use(s)

**Specific end use(s)** Thermal, fire and/or acoustic insulation for use in technical & industrial applications, building construction and in other similar applications.

## Rock Mineral Wool Products

### SECTION 8: Exposure controls and personal protection

#### Control parameters

#### Occupational exposure limits

**Exposure limits** Consult local authorities for acceptable exposure limits.

#### **Biosoluble rock mineral wool**

Long-term exposure limit (8-hour TWA): NOHSC 2 mg/m<sup>3</sup> Low Biopersistence Man-Made Vitreous (Silicate) Fibres, inhalable dust

Long-term exposure limit (8-hour TWA): ACGIH 15 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): ACGIH 1 f/mL total dust (Note (A3))

ACGIH = American Conference of Governmental Industrial Hygienists.

NOHSC = The National Occupational Health and Safety Commission.

**Ingredient comments** (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.  
Biosoluble Rock Mineral Wool - See section 3.

#### 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.

**Eye/face protection** Use glasses or goggles when working with mineral wool insulation above shoulder height or in dusty environments.

**Other skin and body protection** Minimise 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.

## Rock Mineral Wool Products

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Solid. Roll or panel.
<b>Colour</b>	Ochre.
<b>Odour</b>	Not relevant.
<b>Odour threshold</b>	No data available.
<b>pH</b>	Not relevant.
<b>Melting point</b>	Fibre melting point > 1000 °C according to DIN 4102-17.
<b>Initial boiling point and range</b>	Not relevant.
<b>Flash point</b>	Not relevant.
<b>Evaporation rate</b>	Not relevant.
<b>Flammability (solid, gas)</b>	Not relevant.
<b>Flammability Limit - Lower(%)</b>	Not relevant.
<b>Vapour pressure</b>	Not relevant.
<b>Vapour density</b>	Not relevant.
<b>Relative density</b>	30 - 250 kg/m <sup>3</sup>
<b>Solubility Value (g/100g H<sub>2</sub>O 20°C)</b>	Generally chemically inert and insoluble in water.
<b>Auto-ignition temperature</b>	Not relevant.
<b>Decomposition Temperature</b>	Not relevant.
<b>Viscosity</b>	Not relevant.
<b>Explosive properties</b>	Not relevant.
<b>Oxidising properties</b>	Not relevant.
<b>Nominal diameter of fibres</b>	3 - 7 µm
<b>Length weight geometric mean diameter less 2 standard errors</b>	≈ 6 µm
<b>Orientation of fibres</b>	Random
<b>Biopersistence</b>	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).

## Rock Mineral Wool Products

### SECTION 10: Stability and reactivity

<b>Reactivity</b>	None.
<b>Stability</b>	Binder will decompose above 200°C.
<b>Possibility of hazardous reactions</b>	None in normal conditions of use.
<b>Conditions to avoid</b>	Heating above 200 °C.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	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

#### Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** No data were identified for the product as a whole. Data are for constituents:  
 Biosoluble Rock Mineral Wool - Not applicable.  
 Thermo set, inert polymer based on cured phenol formaldehyde resins. - Not applicable.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** No data were identified for the product as a whole. Data are for constituents:  
 Biosoluble Rock Mineral Wool - Not applicable.  
 Thermo set, inert polymer based on cured phenol formaldehyde resins. - Not applicable.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** No data were identified for the product as a whole. Data are for constituents:  
 Biosoluble Rock Mineral Wool - Not applicable.  
 Thermo set, inert polymer based on cured phenol formaldehyde resins. - Not applicable.

#### Skin corrosion/irritation

**Skin corrosion/irritation** May cause mechanical irritation to skin.

#### Serious eye damage/irritation

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

#### Respiratory sensitisation

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

#### Skin sensitisation

**Skin sensitisation** 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.

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

#### Carcinogenicity

**Carcinogenicity** Results from a biopersistence test by intratracheal instillation has shown that fibres in this product longer than 20 µm have a weighted half-life less than 40 days, thus this product is not classified as a carcinogen. None of the components of this product are listed as a carcinogen.



## Rock Mineral Wool Products

### Reproductive toxicity

**Reproductive toxicity - fertility** No data were identified for this product or its constituents.

**Reproductive toxicity - development** No data were identified for this product or its constituents.

### Specific target organ toxicity - single exposure

**STOT - single exposure** No data were identified for this product or its constituents.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No data were identified for this product or its constituents.

### Aspiration hazard

**Aspiration hazard** Not relevant.

**Inhalation** Mechanical irritation to upper respiratory tract.

**Ingestion** Non-hazardous when ingested.

**Skin Contact** Mechanical irritation to skin.

**Eye contact** Mechanical irritation to eyes.

**Medical Symptoms** Contact with skin, eyes and upper respiratory system may cause mechanical irritation. Biosoluble rock mineral wool is generally considered to be a nuisance dust.

## Rock Mineral Wool Products

### SECTION 12: Ecological Information

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

#### Persistence and degradability

**Persistence and degradability** Inert inorganic product with Thermo set, inert polymer based on cured phenol formaldehyde resins; 0 - 10%

#### Bioaccumulative potential

**Bioaccumulative Potential** Will not bioaccumulate.

#### Mobility in soil

**Mobility** Not considered mobile. Less than 1% leachable organic carbon if landfilled.

#### Other adverse effects

**Other adverse effects** None known.

### SECTION 13: Disposal considerations

#### Waste treatment methods

- Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Waste from residues** Dispose of in accordance with all applicable regulations.

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

**Disposal methods** May be disposed in landfill.

## Rock Mineral Wool Products

### SECTION 14: Transport information

**General**

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**

No.

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## Rock Mineral Wool Products

### 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: Any other relevant information

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

#### Abbreviations and acronyms used in the safety data sheet

CAS: Chemical Abstracts Service.

EUCEB: European Certification Board for Mineral Wool Products.

GHS: Globally Harmonised System.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

PBT: Persistent, Bioaccumulative and Toxic substance.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

vPvB: Very Persistent and Very Bioaccumulative.

#### General information

All products manufactured by Knauf Insulation are made of non-classified fibres and are certified by EUCEB. 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)

[www.knaufinsulation.com/comfort-and-handling](http://www.knaufinsulation.com/comfort-and-handling)



#### 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)

#### Revision comments

This is first issue.

#### Revision date

17/08/2017

#### SDS No.

4828

#### Product Families

\*Board, \*LX, \*Lamella (\* all product names would have one of the following prefixes describing product families: PBE, DRS, DAP, CHM, TSP, RSB, MCH, CNF, CTL, WWC, AUT, HTC, SPA).

## Rock Mineral Wool Products

### Other information

In 2001, the International Agency for Research on Cancer (IARC) reclassified rock 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.