

## Safety Information Sheet

### SECTION 1: Product identifier and identity of the chemical

<b>Product identifier used on the label</b>	Engineered Stone Fibre
<b>Other means of identification</b>	Roxul <sup>®</sup> 1000, Rockbrake <sup>®</sup> , Rockseal <sup>®</sup> , Rockforce <sup>®</sup> , CoatForce <sup>®</sup> , Lapinus <sup>®</sup> , RIF41001, RIF48003, ROCKWOOL <sup>®</sup>
<b>Recommended use of the chemical and restrictions on use</b>	
Recommended use	Reinforcement in composites
Restrictions on use	Anything other than the above.
<b>Details of the supplier of the safety data sheet</b>	
Supplier	Lapinus
Address of Supplier	ROCKWOOL B.V. Delfstoffenweg 2 6045 JH Roermond P.O. Box 1160 6040 KD Roermond The Netherlands
Telephone	+31 475 353 555
Fax	+31 475 353 677
E-Mail (competent person)	ra@lapinus.com
<b>Emergency telephone number</b>	+31 475 353 555 (0900 – 1700 GMT)
Languages spoken	English

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

**In accordance with the Safe Work Australia model Work Health and Safety Regulations (2011)** Not classified

#### Label elements

Product Name Engineered Stone fibre - Green

Hazard Pictogram(s) None assigned.

Signal Word(s) None assigned.

Hazard Statement(s) None assigned.

Precautionary Statement(s) None assigned.

#### Other hazards

Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat.

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### SECTION 3: Composition/information on ingredients

#### Substances

Chemical identity of the substance	Common names, trade names, synonyms, etc.	CAS No.	EC No.	%W/W
Earth-alkali aluminasilicate fibre	Lapinus®, HT/MMVF34, Note Q fibre.	287922-11-6*	266-046-0	98 - 100

\* Generic CAS No. 65997-17-3

This product does not contain crystalline silica.

### SECTION 4: First aid measures



#### Description of first aid measures

First aid facilities

Guarantee that the eye flushing systems and safety showers are closely located to the working place.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

Wash with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.

Ingestion

Do not induce vomiting wash out mouth with water. If symptoms occur obtain medical attention.

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

Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically

### SECTION 5: Fire-fighting measures

#### Extinguishing media

Suitable Extinguishing media

Non-combustible. Does not support combustion. Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions. Foam, water spray or fog.

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

**Special hazards arising from the substance or mixture**

None known.

**Special protective equipment and precautions for fire fighters**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

**Hazchem Code**

Not applicable

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### SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing. Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Take off contaminated clothing and wash it before reuse.

**Environmental precautions**

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

**Methods and material for containment and cleaning up**

Stop leak if safe to do so. Use vacuum equipment for collecting spilt materials, where practicable. Damp down to avoid dust generation. Transfer to a lidded container for disposal or recovery. Avoid dust generation. Respiratory protection is not necessary if room is well ventilated.

### SECTION 7: Handling and storage

**Precautions for safe handling**

Unpack material at application site to avoid unnecessary handling of product. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Ensure suitable personal protection during removal of spillages.

**Prudence in safe handling**

Wash hands thoroughly after handling. Good hygiene practices and housekeeping measures. Keep good industrial hygiene. Do not eat, drink or smoke at the work place.

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

Keep only in the original container/package in a cool well-ventilated place. Keep away from food, drinks and animal food. Keep container tightly closed.

Storage temperature  
Incompatible materials

Store at room temperature.  
Avoid contact with moisture. Keep away from:  
Humidity

### SECTION 8: Exposure controls/personal protection

**Occupational Exposure Limits**

Not established.

**Biological exposure indices**

Not established.

**Appropriate engineering controls**

Ensure adequate ventilation. Good hygiene practices and housekeeping measures. Keep container tightly closed and dry. Store in a cool/low-temperature, well-ventilated (dry) place.

**Individual protection measures, such as personal protective equipment (PPE)**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Ensure adequate ventilation. Keep good industrial hygiene. Contaminated clothing should be thoroughly cleaned. Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and

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Respiratory protection



throat.

In case of insufficient ventilation, wear suitable respiratory equipment. A suitable dust mask or dust respirator with filter type A/P may be appropriate.

Hand protection



Impervious gloves. Gloves should be changed if excessive exposure has occurred.

Eye/ face protection



Eye Protection: Not normally required.  
Recommended: Wear eye protection with side protection.

Skin protection



Wear suitable coveralls to prevent exposure to the skin.

Thermal hazards

Not applicable. See also Section 5 – Fire fighting measures of the SDS for specific fire/chemical PPE advice.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Empirical data from a single compound or mixture

Organoleptic (physical shape, colour, etc.)

Grey / Green / Off-white Solid Fibres

Odour

Not established.

Odour threshold

Not established.

pH

7 - 8

Melting point/freezing point

> 1000 °C

Initial boiling point and boiling range

Not established.

Flammable nature (solid, gas)

Not applicable.

Flash point

Not established.

Evaporation rate

Not flammable.

Upper/lower flammability or explosive limits

Not explosive.

Vapour pressure

Not established.

Vapour density

Not established.

Relative density

2.6 – 2.9 g/cm<sup>3</sup>

Solubility(ies)

Insoluble in water.

Partition coefficient: n-octanol/water

Not established.

Auto-ignition temperature

Not established.

Decomposition Temperature

Not established.

Viscosity

Not applicable

#### Additional parameters

None known

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### SECTION 10: Stability and reactivity

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under normal conditions. Hazardous polymerisation will not occur.
<b>Possibility of hazardous reactions</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Keep away from acids and alkalis.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition product(s)</b>	Carbon monoxide, Carbon dioxide

### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Ingestion

Based on available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day

Inhalation

Based on available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LD50 >20 mg/l

Skin Contact

Based on available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day

**Skin corrosion/irritation**

Based upon the available data, the classification criteria are not met.

**Serious eye damage/irritation**

Based upon the available data, the classification criteria are not met.

**Respiratory or skin sensitization**

Based upon the available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based upon the available data, the classification criteria are not met.

**Carcinogenicity**

Based upon the available data, the classification criteria are not met.

Engineered Lapinus Stone fibre: IARC Classification: Group 3. Not classifiable as to its carcinogenicity to humans.

EU regulations: Note Q

Data shows that the classification as a carcinogen need not apply if it can be shown that the substance fulfils one of the following conditions:

— a short term biopersistence test by inhalation has shown that the fibres longer than 20 µm have a weighted half-life less than 10 days; or

— a short term biopersistence test by intratracheal instillation has shown that the fibres longer than 20 µm

have a weighted half-life less than 40 days; or

— an appropriate intra-peritoneal test has shown no evidence of excess carcinogenicity; or

— absence of relevant pathogenicity or neoplastic changes in a suitable long term inhalation test.

Based upon the available data, the classification

**Reproductive toxicity**

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<b>STOT - single exposure</b>	criteria are not met. Based upon the available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based upon the available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based upon the available data, the classification criteria are not met.
<b>Information on likely routes of exposure</b>	
Inhalation	Possible – accidental exposure
Ingestion	Unlikely – accidental exposure
Skin Contact	Possible – accidental exposure
Eye Contact	Unlikely – accidental exposure
<b>Early onset symptoms related to exposure</b>	None known.
<b>Delayed health effects from exposure</b>	Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat.
<b>Exposure levels and health effects</b>	None known.
<b>Interactive effects</b>	None known.
<b>Other information</b>	None known.
NTP Report on Carcinogens	Listed: Refractory ceramic fibre - Reasonably anticipated to be a human carcinogen
IARC Monographs	Listed: Refractory ceramic fibre - Group 2B

### SECTION 12: Ecological information

<b>Ecotoxicity</b>	Based upon the available data, the classification criteria are not met.
<b>Persistence and degradability</b>	Not readily biodegradable.
<b>Bioaccumulative potential</b>	Low bioaccumulation potential.
<b>Mobility in soil</b>	The product is predicted to have low mobility in soil. Insoluble in water.
<b>Other adverse effects</b>	None known.

### SECTION 13: Disposal considerations

<b>Safe handling and disposal methods</b>	Dispose of this material and its container as hazardous waste. Send after pre-treatment to an appropriate hazardous waste incinerator facility according to legislation.
<b>Disposal of contaminated packaging</b>	Dispose of contents in accordance with local, state or national legislation.
<b>Environmental regulations</b>	
National Pollutant Inventory	Not Listed

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### SECTION 14: Transport information

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA/ICAO</b>
<b>UN number</b>	Not classified.	Not classified.	Not classified.
<b>UN proper shipping name</b>	Not classified.	Not classified.	Not classified.
<b>Transport hazard class(es)</b>	Not classified.	Not classified.	Not classified.
<b>Packing group</b>	Not classified.	Not classified.	Not classified.
<b>Environmental hazards</b>	Not classified.	Not classified.	Not classified.
<b>Special precautions for user</b>	See Section: 2		

### SECTION 15: Regulatory information

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

##### International regulations

Canada (DSL/NDSL)	Listed in: DSL
China (IECSC)	Listed
European Union (EINECS/ELINCS)	EINECS: Included.
Japan (ENCS)	Listed
Korea (ECL)	Listed
New Zealand Inventory	Listed
Philippines (PICCS)	Listed
Taiwan	Listed
Turkey	Listed
United States (TSCA)	Listed

##### National regulations

Australian Inventory of Chemical Substances	Not Listed
NICNAS - Priority Existing Chemicals	Not Listed
NICNAS - IMAP Framework	Not Listed
NICNAS - High Volume Industrial Chemical List	Not Listed
National Pollutant Inventory	Not Listed

### SECTION 16: Other information

The following sections contain revisions or new statements: Not applicable – V1.0

<b>Version</b>	01
<b>Revision Date</b>	07 March 2018
<b>Date of First Issue</b>	07 March 2018

#### Safety Information Sheet

Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2011) requires SDS only for hazardous substances and mixtures / preparations. The Engineered Lapinus Stone fibre has been defined as non-hazardous. The Safety Information Sheet has been made up to the rules in Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2011) to be as informative as possible.

#### CAS numbers

The CAS number under which the Engineered Stone Fibres fall is 65997-17-3. Under this number the fibres are registered in the chemical registry systems in most countries in the world. This CAS number however is very broad. The specific chemistry of the Engineered Stone Fibres has been laid down in the CAS number 287922-11-6 (Grey/Green fibres) and 1010446-98-6 (Off-white fibres) and can be tracked in the CAS Registry System only.

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### References:

Existing Safety Data Sheet (SDS). Existing ECHA registration for Glass, oxide, chemicals (CAS No. 65997-17-3)

### LEGEND

LTEL: Long Term Exposure Limit

DNEL: Derived No Effect Level

PBT: PBT: Persistent, Bioaccumulative and Toxic

IARC: The International Agency for Research on Cancer

STEL: Short Term Exposure Limit

PNEC: Predicted No Effect Concentration

vPvB: very Persistent and very Bioaccumulative

### Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. ROCKWOOL B.V gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. ROCKWOOL B.V accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.