

# Safety Information Sheet



Version 1.0  
Date of Issue 8<sup>th</sup> July 2019  
Date of First Issue 8<sup>th</sup> July 2019

危害性化學品標示及通識規則 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危害性化學品標示及通識規則 to be as informative as possible.

## 第一項 — 辨識資料

### Product identifier

Product Name Mineral Fibres according Note Q

### Other Means of Identification

Roxul®1000, Rockbrake®, Rockseal®, Rockforce®, CoatForce®, Lapinus®, RIF41001, RIF48003, ROCKWOOL®

### Recommended use of the chemical and restrictions on use

Recommended use Additive in composites  
Restrictions on use No Uses advised against

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

Company Identification	Lapinus	
Company Address	ROCKWOOL B.V. Delfstoffenweg 2 6045 JG Roermond Netherlands +31 475 353 555 <a href="mailto:ra@lapinus.com">ra@lapinus.com</a>	ROCKWOOL B.V. P.O. Box 1160 6040 KD Roermond Netherlands
Telephone		
E-Mail (competent person)		

### Emergency telephone number

Emergency Phone No. +31 475 353 555 Monday to Friday, 09:00 – 17:00 (GMT +1)  
Languages spoken English

## 第二項 — 危害辨識資料

### Classification of the substance or mixture

Hazard Class Not classified as dangerous for supply/use.

### Label elements

Hazard Pictogram(s)	None assigned.
Signal Word(s)	None assigned.
Contains:	Not applicable
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.

## 第三項 — 成分組成/成份資訊

Mixtures Substances in preparations / mixtures

### Chemical Properties

Hazardous Ingredient(s)	Concentration %	Hazard classification
Man-made vitreous (silicate) fibres (MMVF) with random orientation with alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content greater than 18 % by weight]	98-100	Not classified - According to Note Q

\*Generic CAS No. 65997-17-3, Specific CAS No. 287922-11-6 and 1010446-98-6. See Section 16 for details.

^ See Section: 11

This product does not contain crystalline silica

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## 第四項 — 急救措施



### Description of first aid measures

Inhalation	IF INHALED: 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	IF ON SKIN (or hair): Wash with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	IF IN EYES: 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	IF SWALLOWED: Do not induce vomiting wash out mouth with water. If symptoms occur obtain medical attention.
<b>Most important symptoms and effects, both acute and delayed</b>	Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat.
<b>Self-protection of the first aider</b>	Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with skin, eyes or clothing.
<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically

## 第五項 — 滅火措施

### 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.
<b>Special hazards arising from the substance or mixture</b>	None known.
<b>Specific / special fire fighting procedures</b>	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.
<b>Fire Fighting Protective Equipment</b>	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## 第六項 — 意外洩漏處理方法

### 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. In case of inadequate ventilation wear respiratory protection.	
Environmental precautions	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.
<b>Methods and material for containment and cleaning up</b>	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.

## 第七項 — 處置和儲存方法

### Precautions for safe handling

Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Ensure suitable personal protection during

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## Conditions for safe storage, including any incompatibilities

Storage temperature  
Incompatible materials

removal of spillages. Good hygiene practices and housekeeping measures. Keep good industrial hygiene. Do not eat, drink or smoke at the work place.

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.

Store at room temperature.

Avoid contact with moisture. Keep away from: Humidity

## 第八項 — 暴露控制和個人防護

### 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.

### Control parameters

#### Occupational Exposure Limits

(general dust limit value) – 1 mg/m<sup>3</sup> Respirable Dust; 4 mg/m<sup>3</sup> Total Dust.

### Biological limit value

Not established.

### 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 throat.

Eye/ face protection



Eye Protection: Not normally required.

Recommended: Wear eye protection with side protection (EN166).

Skin and body protection



Wear suitable coveralls to prevent exposure to the skin. Wear work clothes with long sleeves.

Hand protection



Wear impervious gloves (EN374). Gloves should be changed if excessive exposure has occurred.

Respiratory protection



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

### Hygiene Measures

Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke at the work place.

## 九項 — 物理和化學性質

### 9.1 Information on basic physical and chemical properties

Appearance (Physical state, Colour)	Solid Grey / Green Fibres
Odour	Not established
Odour Threshold	Not established
pH	7 - 8

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Melting Point/Freezing Point	> 1000 °C
Initial boiling point and boiling range	Not established
Flammability (solid, gas)	Not flammable
Decomposition Temperature	Not established
Flash point	Not applicable
Auto-ignition temperature	Not established
Upper/lower flammability or explosive limits	Not established
Vapour pressure	Not established
Vapour density	Not established
Density (water=1)	2.7 – 2.8 g/cm <sup>3</sup>
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	Not established
Evaporation Rate	Not established

**Additional Information** None

## 第十項 — 安定性及反應性

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

## 第十一項 — 毒性資料

<b>Exposure route</b>	
Inhalation	Based upon the available data, the classification criteria are not met.
Skin Contact	Based upon the available data, the classification criteria are not met.
Eye Contact	Based upon the available data, the classification criteria are not met.
Ingestion	Based upon the available data, the classification criteria are not met.
<b>Symptoms</b>	Based upon the available data, the classification criteria are not met.
<b>Acute toxicity</b>	Based upon the available data, the classification criteria are not met.
Ingestion	Based upon the available data, the classification criteria are not met.
Inhalation	Based upon the available data, the classification criteria are not met.
Skin Contact	Based upon the available data, the classification criteria are not met.
<b>Chronic Toxicity</b>	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.

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## 第十二項 — 生態資料

<b>Ecotoxicity</b>	Based on available data, the classification criteria are not met. Estimated LC50 (Mixture): >100 mg/l.
Glass, oxide, chemicals	Not classified
<b>Persistence and degradability</b>	LC50 (fish) mg/l: >1000 (OECD Guideline 201)
Glass, oxide, chemicals	No data for the mixture as a whole.
<b>Bioaccumulative potential</b>	Not biodegradable
Glass, oxide, chemicals	No data for the mixture as a whole.
<b>Mobility in soil</b>	No data
Glass, oxide, chemicals	No data for the mixture as a whole.
<b>Other adverse effects</b>	Inorganic and Insoluble in water. The substance is predicted to have low mobility in soil. None known.

## 第十三項 — 廢棄處置方法

<b>Waste treatment methods</b>	Dispose of waste according to applicable legislation. Do not discharge into drains or the environment, dispose to an authorised waste collection point. Dispose of waste cans and containers according to local regulations.
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## 第十四項 — 運送資料 a

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>Marine pollutant</b>	Not classified	Not classified	Not classified
<b>Special precautions for user</b>	See Section: 2		

## 第十五項 — 法規資料

<b>National regulations</b>	
Taiwan OSHA - Priority Management Chemical	1,2-Benzisothiazol-3(2H)-one; 1,2-Benzisothiazolin-3-one - Listed

## 第十六項 — 其它資料

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

### References:

Existing Safety Data Sheet (SDS).

EU: Existing ECHA registration for silicon(4+) dialuminium(3+) calcium magnesium(2+) heptaoxidandiide (EC No. 926-099-9)

### Organisation that prepared the SDS Address/Phone No.

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6045 JG Roermond  
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### Person who prepared the SDS

Title

項目工程師

Name (Signature)

Pedro Kessels

Date the SDS was prepared

8<sup>th</sup> July 2019

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Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

## Disclaimers

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