

# Safety Information Sheet



Version 2.1  
Date of Issue 23/08/2022  
Date of First Issue 20/06/2018

## According to Notice No. 2016-19 of the Ministry of Employment and Labor

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## 1. Chemical products and company identification

### Product identifier

Product Name Secondary coated fibres  
Product Code Roxul®1000, Rockbrake®, Rockseal®, Rockforce®, Lapinus®, RIF41001, RIF48003, ROCKWOOL®, RB210, RB205

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

Recommended use Additive in composites  
Restrictions on use Anything other than the above.

### Supplier identification

Company Name ROCKWOOL B.V.  
Company Address ROCKWOOL B.V.  
Delfstoffenweg 2  
6045 JG Roermond  
Netherlands  
Telephone +31 475 353 555  
E-mail (competent person) [ra@lapinus.com](mailto:ra@lapinus.com)  
Emergency Phone No. +31 475 353 555 Monday to Friday, 09:00 – 17:00 (GMT +1)

ROCKWOOL B.V.  
P.O. Box 1160  
6040 KD Roermond  
Netherlands

## 2. Hazards identification

Hazard classification Not classified as hazardous for supply/use.  
According to Notice No. 2016-19 of the Ministry of Employment and Labor

### Label elements

Pictogram None assigned  
Signal Word(s) None assigned  
Hazard Statement(s) None assigned  
Precautionary Statement(s) None assigned  
Hazard or risk other than that included in the classification criteria Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat.

## 3. Composition/information on ingredients

### Mixture

| Chemical Name (Common and alternative names)  | CAS No. or Other Identification Number(s) | Content (%) | 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] | 65997-17-3*                               | 92 - 100    | Not classified - According to Note Q(EU) |

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

This product does not contain crystalline silica.

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## 4. First aid measures



### a. 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. If irritation occurs, do not rub or scratch, rinse under running water prior to washing thoroughly with water.

### b. Skin contact

IF ON SKIN (or hair): Wash with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.

### c. 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. Remove to fresh air immediately. Make victim drink water. Wash hands before breaks and after work.

### d. Ingestion

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

### e. Indication of medical attention and notes for physician:

Treat symptomatically.

Self-protection of the first aider

Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation Avoid breathing dust Avoid contact with skin, eyes or clothing.

## 5. Firefighting measures

### Suitable (and inappropriate) extinguishing agents

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.

### Specific hazards arising from the chemical

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.

## 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. In case of inadequate ventilation wear respiratory protection.

### Environmental precautions and protective procedures

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.

## 7. Handling and storage

### 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 removal of spillages. Good hygiene

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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**

storage temperature  
 Incompatible materials

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

## 8. Exposure controls and personal protection

**Exposure standards for chemicals, biological exposure standards, etc.**

Refer to member state guidelines and legislation

Workplace exposure limit (WEL) must not be exceeded (total respirable , 8-hour time weight averages) .The air concentration of inhalable fibres will be under normal working conditions than 0,5 per cm3.

**Occupational exposure limits**

| SUBSTANCE                      | Chemical Formula | 영문표기  | CAS No.          | 노출기준 TWA |                   | 노출기준 STEL |                   | Note |
|--------------------------------|------------------|---|------------------|----------|-------------------|-----------|-------------------|------|
|                                |                  |   |                  | ppm      | mg/m <sup>3</sup> | ppm       | mg/m <sup>3</sup> |      |
| 흑연<br>(천연 및 합성, Graphite 섬유제외) | C                | Graphite (Natural & Synthetic, Except Graphite fibers, Respirable fraction) | 7782-42-5<br>호흡성 | -        | 2                 | -         | -                 | -    |

source: 개정 2018. 3.20(고용노동부고시 제 2018-24 호)

**Biological Limit Value**

Not established

**Appropriate engineering controls:**

Ensure adequate ventilation Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.

**Personal protection equipment:**

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

**Respiratory protection**



Respiratory protection is not necessary if room is well ventilated. In case of inadequate ventilation wear respiratory protection.

**Eye / face protection**



Use eye protection according to EN 166, designed to protect against liquid splashes.

**Hand protection**



Wear suitable chemical resistant protective gloves for frequent or prolonged operations tested to EN374 with an acceptable permeation test. Contaminated gloves should be carefully rinsed with water before reuse.

**Body protection**

Wear suitable protective clothing. . Wear safety or chemical resistant shoes or boots.

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## 9. Physical and chemical properties

|  |                        |
|--|------------------------|
| Appearance                                   | solid fibres           |
| Colour                                       | Grey/ Green            |
| Odour  | Not established        |
| Odour threshold                              | Not established        |
| pH   | 7 - 8                  |
| Melting point/freezing point                 | > 1000 °C              |
| Initial boiling point and boiling range      | Not established        |
| Flash point                                  | Not established        |
| Evaporation rate                             | Not established        |
| Flammability (solid, gas)                    | Not established        |
| Upper/lower flammability or explosive limits | Not established        |
| Vapour pressure                              | Not established        |
| Solubility(ies)                              | Immiscible with water. |
| Vapour density                               | Not established        |
| Relative density                             | 2.7 – 2.8              |
| n-Octanol / Water                            | Not established        |
| Auto-ignition temperature                    | Not established        |
| Decomposition temperature                    | Not established        |
| Viscosity                                    | Not established        |
| Molecular mass                               | Not established        |

## 10. Stability and reactivity

|  |   |
|--|---|
| <b>Chemical stability and possibility of hazardous reactions</b> | None anticipated. Not flammable. Hazardous polymerisation will not occur. |
| <b>Conditions to avoid</b>                                       | Keep away from: Acids, Alkalis, humidity                                  |
| <b>Incompatible materials</b>                                    | Avoid contact with moisture Keep away from: Humidity                      |
| <b>Hazardous decomposition products</b>                          | Carbon monoxide, Carbon dioxide   |

## 11. Toxicological information

|   |   |
|---|---|
| <b>Information on likely routes of exposure</b> |   |
| inhalation                                      | Possible – accidental exposure  |
| Ingestion                                       | Possible – accidental exposure  |
| Skin contact                                    | Possible – accidental exposure  |
| Eye contact                                     | Unlikely – accidental exposure  |
| <b>Health hazards information</b>               |   |
| <b>Acute toxicity - Ingestion</b>               | Mixture: Based upon the available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw      |
| <b>Acute toxicity - inhalation</b>              | Mixture: Based upon the available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: LC50 >5 mg/l (Dust/Mist) |
| <b>Acute toxicity - Skin contact</b>            | Mixture: Based upon the available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw      |
| <b>Skin corrosion/irritation</b>                | Mixture: Based upon the available data, the classification criteria are not met.  |
| <b>Serious eye damage/irritation</b>            | Mixture: Based upon the available data, the classification criteria are not met.  |
| <b>Respiratory sensitization</b>                | Mixture: Based upon the available data, the classification criteria are not met.  |
| <b>Skin sensitization</b>                       | Mixture: Based upon the available data, the classification criteria are not met.  |

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### Carcinogenicity

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

### Germ cell mutagenicity

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

### Reproductive toxicity

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

### Specific target organ toxicity — single exposure

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

### Specific target organ toxicity — repeated exposure

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

### Aspiration hazard

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

## 12. Ecological information

### Ecotoxicology

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

### Persistence and degradability

Not readily biodegradable

### Bioaccumulative potential

Low bioaccumulation potential.

### Mobility in soil

The product is predicted to have low mobility in soil. Insoluble in water

### Other adverse effects

Not classified as PBT or vPvB.

None Known.

## 13. Disposal considerations

### Disposal method

Disposal should be in accordance with local, state or national legislation.

### Disposal precaution

Dispose of empty containers and wastes safely. Dispose of this container to hazardous or special waste collection point.

## 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>ICAO/IATA</b> |
|-----------------------------------|----------------|---------------------------------------|------------------|
| <b>UN number</b>                  | None assigned  | None assigned                         | None assigned    |
| <b>UN proper shipping name</b>    | None assigned  | None assigned                         | None assigned    |
| <b>Transport hazard class(es)</b> | None assigned  | None assigned                         | None assigned    |
| <b>Packing group</b>              | None assigned  | None assigned                         | None assigned    |
| <b>Marine pollutant</b>           | Not classified | Not classified as a Marine Pollutant. | Not classified   |

**Special precaution that a user should be aware of or should comply with in connection with transport or conveyance either within or outside the premises:** None Known

## 15. REGULATORY INFORMATION

Industrial Safety and Health Act

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|  |                              |
|--|------------------------------|
| Hazardous Substances Subject to Control                  | All chemicals are not listed |
| Substances Requiring Work Environment Measurement        | All chemicals are not listed |
| Harmful Substances Requiring Special Medical Examination | All chemicals are not listed |

**Korea Existing Chemicals Inventory (KECI)** Glass oxide: listed

### Toxic Chemical Control Act

|  |                              |
|--|------------------------------|
| Toxic Substances                               | All chemicals are not listed |
| Substances Requiring Preparation for Accidents | All chemicals are not listed |

**Dangerous Material Safety Control Act** All chemicals are not listed  
**Waste Management Act** All chemicals are not listed

### Other requirements in domestic and other countries

|   |  |
|---|--|
| Europe: Restrictions on use               | All chemicals are not listed                 |
| Europe: RoHS – EEE Substance Inventory    | All chemicals are not listed                 |
| Europe: Wassergefährdungsklasse (Germany) | All chemicals are not listed                 |
| United States (TSCA)                      | Glass oxide: listed                          |
| IARC Monographs                           | Note Q fibres - IARC classification: Group 3 |

## 16. Other information

The following sections contain revisions or new statements: V2.1 - New Template

### References:

Existing Safety Data Sheet (SDS)  
Existing ECHA registration for Glass, oxide, chemicals (CAS No. 65997-17-3).  
Mandatory classification by National Institute of Environmental Research (NIER)

The CAS number under which the Note Q 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 bio-soluble fibre has been laid down in the CAS number 287922-11-6 and 1010446-98-6 and can be tracked in the CAS Registry System only.

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Classification: This Safety Data Sheet(s) was prepared in accordance with Notice No. 2016-19 of the Ministry of Employment and Labor

### Legend

|           |   |
|-----------|---|
| ATE       | Acute Toxicity Estimate   |
| BCF       | Bioconcentration Factor   |
| CAS       | CAS: Chemical Abstracts Service   |
| DNEL      | Derived no effect level   |
| EC        | EC: European Community  |
| EN        | European Standard   |
| EU        | European Union  |
| IATA      | IATA: International Air Transport Association   |
| ICAO/IATA | ICAO: International Civil Aviation Organization / IATA: International Air Transport Association |
| IMDG      | IMDG: International Maritime Dangerous Goods  |
| LC50      | Lethal concentration 50   |
| LD50      | Lethal dose 50  |

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|       |  |
|-------|--|
| LTEL  | Long term exposure limit   |
| OECD  | Organisation for Economic Cooperation and Development                |
| PBT   | PBT: Persistent, Bioaccumulative and Toxic                           |
| PNEC  | Predicted No Effect Concentration                                    |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| STEL  | Short term exposure limit  |
| TWA   | Time Weighted Average  |
| UN    | United Nations   |
| vPvB  | very Persistent and very Bioaccumulative                             |

## Disclaimers

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