SAFETY DATA SHEET

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product identifier

Product name Mineral fibres according Note Q

Product code Roxul®1000, Rockbrake®, Rockseal®, Rockforce®, CoatForce®, Lapinus®, RIF41001, RIF48003

Relevant indentified uses of substances or mixture and uses advised against

Recommended use Reinforcement in composites.

Uses advised against None known.

Details of the supplier of the safety data sheet

Rockwool B.V.
Lapinus Fibres
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6045 JG Roermond
P.O. Box 1160
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The Netherlands
Tel. +31 475 353 555
Fax. +31 475 353 677
Lapinus@lapinusfibres.com

Emergency telephone number

+31 653 368 588

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (1272/2008/EC)

Not classified.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Not classified.

Label Elements

Not required.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548)	Classification (1272/2008/EC)	REACh Registration Number
Man-made vitreous (silicate) fibres with random orientation with alkaline and alkali earth oxides (NA_2O +K_2O + CaO + MgO + BaO) content greater than 18% by weight and fulfilling one of the Note Q conditions	650-016-00-2	287922-11-6 1010446-98-6	95-100	-	-	01-2119472313-44-0003

This product contains no crystalline silica.

4 FIRST AID MEASURES

Description of first aid measures

General advice — If symptoms persist, call a physician.

Eye contact — Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact — Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Ingestion — Clean mouth with water and afterwards drink plenty of water.

Inhalation — Move to fresh air.

Protection of first-aiders — No special protective equipment required.

Most important symptoms and effects, both acute an delayed

Main symptoms — No information available.

Indication of any immediate medical attention and special treatment needed

Notes to physician — Treat symptomatically.

5 FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media — Dry chemical, carbon dioxide (CO_2), water spray, foam.

Extinguishing media which must not be used for safety reasons — No information available.

Special hazards arising from the substance or mixture

Specific hazard — None in particular.

Advice for fire-fighters

Special protective equipment fire-fighters — As in any fire, wear self-contained breathing apparatus and full protective gear.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental precautions

Prevent further leakage or spillage if safe to do so. See section 12 for additional information.

Methods and material for containment and cleaning up

Do not dry sweep dust. Wet dust with water before sweeping of use a vacuum to collect dust.

7 HANDLING AND STORAGE

Precautions for safe handling.
Unpack material at application site to avoid unnecessary handling of product. Keep work area clean. Dispose of scrap material and debris in suitable containers. Spray with water before sweeping or use vacuum equipment.

Conditions for safe storage, including any incompatibilities
Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Specific end uses

Exposure scenario	Not applicable.
Other guidelines	No information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits	The product does not contain any hazardous materials with occupational exposure limits established.
Derived no effect level (DNEL)	No information available.
Predicted no effect concentration PNEC)	No information available.

Exposure controls

Engineering measures	Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

- **Eye protection**	Tightly fitting safety goggles.
- **Hand protection**	Protective gloves.
- **Skin and body protection**	Long sleeved clothing.
- **Respiratory protection**	In case of insufficient ventilation wear suitable respiratory equipment.
- **Recommended filter type**	FFP1, FFP2.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practise.
Environmental exposure controls	No information available.

9 PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state @20°C**	Solid.
- **Appearance**	Fibres.
- **Colour**	Grey - green/White - grey.
- **Odour**	No information available.
- **pH**	7-8 (1000 g/l, 25°C, DIN 54275).
- **Melting point/Freezing point**	> 1000 °C.
- **Boiling point, boiling range**	No information available.
- **Flash point**	Not applicable.

- **Evaporation rate** No information available.
- **Flammability (solid, gas)** Not flammable (DIN 4102).
- **Flammability limits in air** Not flammable.
- **Vapour pressure** No information available.
- **Vapour density** No information available.
- **Relative density** No information available.
- **Solubility**
  - **Water solubility** Insoluble in water.
- **Partition coefficient (n-octanol/water)** Not applicable.
- **Auto-ignition temperature** No information available.
- **Decomposition temperature** No information available.
- **Viscosity, dynamic** No information available.
- **Explosive properties** Not explosive.
- **Oxidising properties** Not- applicable.
- **Density** 2.6 g/cm^3

10 STABILITY AND REACTIVITY

Reactivity
Hazardous polymerisation does not occur.

Chemical stability
Stable under normal conditions.

Possibilities of hazardous reactions
None under normal processing.

Conditions to avoid
None known.

Incompatible materials
None in particular.

Hazardous decomposition products
When mineral wool is heated above 200° C, this starts a decomposition reaction of the dust binding mineral oil or the sizing, the products of which can be detected by their odour. Emissions usually occur only during the first heating. It is advisable to ensure good ventilation when such appliances are first put into service. The decomposition products are those that would be expected from any organic (carbon containing) material, and are mainly derived from pyrolysis or burning the mineral oil or the sizing. These decomposition products are mainly carbon dioxide, carbon monoxide, carbon particles, water, and trace gasses (e.g. nitrogen dioxide, sulphur dioxide).

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Inhalation Product does not present any acute toxicity hazard based on known information.

Eye contact Dust contact with the eyes can lead to mechanical irritation.

Skin contact Product does not present any acute toxicity hazard based on known information. Substance may cause slight skin irritation.

Ingestion Not an expected route of exposure. Product does not present an acute toxicity hazard based on known information.

Chronic toxicity

Carcinogenicity

Animal studies
If fibres are very durable (bio persistent) and present in high concentrations they may lead to disease. This product has been tested in long-term carcinogenicity studies [inhalation and intraperitoneal injection (i.p)] with no significant increase in lung tumours or abdominal tumours. Short-term bio persistent (inhalation and intratracheal injection) studies have shown that the fibres disappear very rapidly from the lung.

Experiences in humans (epidemiological studies)
Large morbidity and mortality studies of both European and North American mineral wool [rock (stone) and slag wool] manufacturing workers have been conducted with the traditional mineral wools. The studies have found no significant evidence of non-malignant lung disease (e.g. fibrosis). Note Q has not been subject to epidemiological studies but consists of the less bio persistent fibres, which will disappear even faster from the lung than the rock (stone) wool fibres.

Sensitisation No sensitisation responses were observed.

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.

Mutagenic effects No information available.

Target organ effects No information available.

12 ECOLOGICAL INFORMATION

Toxicity
Not hazardous.

Persistence and degradability
Product is not biodegradable.

Bio accumulative potential
Product has a low potential to bioconcentrate.

Mobility in soil
No information available.

Results of PBT and vPvB assessment
No information available.

Other adverse effects
No information available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/ unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14 TRANSPORT INFORMATION

ADR/RID	Not regulated.
ADN	Not regulated.
IMDG/IMO	Not regulated.
ICAO/IATA	Not regulated.

Environmental hazard
Not applicable.

Special precautions for users
Not applicable.

Transport in bulk according to MARPOL 73/78 and the IBC code
Not applicable.

15 REGULATORY INFORMATION

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

Restrictions on use No information available.

This product is exonerated from classification as a carcinogen according to Note Q in EU Commission Directive 97/69/EC. This product is exonerated from classification as a carcinogen according to the German Hazardous Substances Ordinance Annex V Nr. 71 as of 1 October 2000.

Chemical safety assessment
No information available.

16 OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3.
Not applicable.

Full text of H-statements referred to under sections 2 and 3.
Not applicable.

Revision date 25 November 2010

Revision note Not applicable.

Further information

- IARC Working Group on Man-made Vitreous Fibres - Volume 81 of the IARC Monographs, Lyon, 9-16 October 2001.
- Europe: Information about Health Aspects. Insulation Wool (Glass-, Stone, and Slag-wool) can be obtained at the European Insulation Manufacturers Association (EURIMA, Av.- Louise 375, bte 4, B-1050 Brussels).
- North America: Information about Health and Safety Research on Rock- and Slag-wool can be obtained at the North American Insulation Manufacturers Association (NAIMA, 44 Canal Center Plaza, Suite 310, Alexandria, VA 22314, USA).

This safety data sheets complies with the requirements of Regulation (EC) No. 1907/2006 (REACh).

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet