

1	Product and company identification													
1.1	Product name: ROCKWOOL Stone Wool Insulation													
1.2	Product use: Thermal insulation, acoustic insulation, fire protection.													
1.3	Product appearance: Grey/green colour. Supplied in Slabs/batts, rolls, mats, loose 'granulate' and shaped (eg preformed pipe sections, cut pipe sections etc.)													
1.4	Company address:	ROCKWOOL Malaysia Sdn Bhd 175 A&B Kawasan Perindustrian Air Keroh Jalan Lingkungan Usaha, 75450 Melaka, Malaysia ROCKWOOL Malaysia Sdn Bhd Lot 4, Solok Waja 1, Bukit Raja Industrial Estate 41050 Klang, Selangor, Malaysia												
1.5	Contact:	Melaka Tel: +60 6 233 2010, Fax: +60 6 231 9877 Klang Tel: +60 3 3341 3444, Fax: +60 3 3342 7290/ 3341 9205												
1.6	E-mail of person responsible for SDS:	mohamad-azhari.mohamad-nawar@rockwool.com												
1.7	Issue date: 8 th Aug 2019	Replaces Issue : SDS-Rev.5												
1.8	Document No. SDS-Rev. 6													
2	Hazards identification													
	No hazard associated with this product.													
3	Composition/ information on ingredients													
	<table border="1"> <thead> <tr> <th>Description</th> <th>CAS-No.</th> <th>Contents</th> </tr> </thead> <tbody> <tr> <td>Mineral wool - Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content greater than 18 % by weight</td> <td>RN 65997-17-3</td> <td>95-99%</td> </tr> <tr> <td>Bakelite synthetic thermosetting resin binder</td> <td>-</td> <td>Up to 5%</td> </tr> <tr> <td>Mineral oil (for water repellency)</td> <td>-</td> <td>Up to 0.3%</td> </tr> </tbody> </table>		Description	CAS-No.	Contents	Mineral wool - Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content greater than 18 % by weight	RN 65997-17-3	95-99%	Bakelite synthetic thermosetting resin binder	-	Up to 5%	Mineral oil (for water repellency)	-	Up to 0.3%
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4	First-aid measures													
4.1	Information according to the different exposure route:													
	- Inhalation	: Remove from exposure. Rinse the throat and blow nose to clear dust												
	- Skin contact	: If itching occurs, wash skin gently with cold water and soap.												
	- Eyes contact	: Rinse abundantly with water for at least 5 minutes.												
	- Ingestion	: Drink plenty of water if accidentally ingested.												
	If any adverse reaction or discomfort continues from any of the above exposures, seek medical professional advice													
5	Fire-fighting measures													
	The products are non-combustible and do not pose a fire hazard. Pinking may occur at high temperatures. Some facings and packaging materials may burn.													
5.1	Suitable extinguishing media: Water, foam, carbon dioxide or dry powder.													
5.2	Extinguishing media that must not be used for safety reasons: None.													
5.3	Combustion products: Carbon dioxide, carbon monoxide and trace gasses.													
5.4	Special protective equipment for fire fighters: Observe normal fire fighting procedures.													

6	Accidental release measures
6.1	Personal precautions : In case of presence of high concentrations of dust, use the same personal protective equipment as mentioned in section 8.
6.2	Environmental protection : Not relevant
6.3	Methods for cleaning up : Clean with vacuum or dampen with water spray prior to sweeping up.
7	Handling and storage
7.1	Handling: Unpack material at application site to avoid unnecessary handling of product. Keep work areas clean. Dispose of scrap material and debris in suitable containers. Spray with water before sweeping or use vacuum equipment.
7.2	Storage: Keep material in original packaging until it is to be used. Store material to protect against damage including the weather.
8	Exposure controls/ personal protection
8.1	Respiratory protection <i>Fibres:</i> Workplace exposure limits (WEL) to meet country's requirements on the 8 hour time weighted average gravimetric measure. If the WEL is likely to exceeded (for example when using high speed cutting tools or when working in confined spaces) disposable face masks complying with BS EN149 FFP1 or FFP2 should be used and are suitable for most applications. <i>Initial heating up:</i> When insulation wool is heated to approximately 200°C for the first time(s), release of binder components and binder decomposition products occurs. The fumes can be detected by their acrid odour and high concentrations of these gasses may irritate the eyes and respiratory system. General dilution ventilation and/or local exhaust ventilation should be provided as necessary to control exposure to fumes when high temperature appliances are first put into service.
8.2	Hand protection: It is recommended that gloves are worn for comfort. Gloves conforming to EN 388 or similar are recommended.
8.3	Eye protection: With heavy dust development or when working with product above head height, the use of safety goggles is advised. Eye protection conforming to EN 166 or similar are recommended.
8.4	Skin protection: No special requirements: loose fitting, long-sleeved, long-legged, work clothes advised. Change clothes and wash on completing work.
9	Physical and chemical properties
9.1	Appearance: solid, grey-green
9.2	Odour: n.a.
9.3	pH (at 1000g/H ₂ O, 25°C): neutral or slightly alkaline (pH7-9)
9.4	Boiling point: n.a.
9.5	Melting point: above 1000°C. The limiting temperature applicable for use is dependent upon specific product type and intended application and must be taken from the appropriate ROCKWOOL product data sheet.
9.6	Flash point:) n.a.
9.7	Flammability:) n.a.
9.8	Auto-flammability:) A1 non combustible
9.9	Explosive properties: n.a.
9.10	Oxidising properties: n.a.
9.11	Vapour pressure: n.a.
9.12	Fibre density: n.a.
9.13	Solubility: generally chemically inert and insoluble in water
9.14	Partition coefficient: n.a.
9.15	Other data: n.a.
10	Stability and reactivity
10.1	Stability: Stable
10.2	Reactivity: Not reactive
10.3	Thermal decomposition products: When insulation wool is heated to approximately 200°C for the first time(s) binder components and decomposition gases are emitted from the binder. The decomposition starts at approximately 200°C and the duration of release depends on thickness of insulation, binder content and temperature(s) applied.

11 Toxicological information:

- 11.1 Acute effect: The mechanical effect of fibres in contact with the skin can cause a temporary itching.
- 11.2 Respirable fibers
According to IARC rock (stone) wool is classified as Group 3, "not classifiable as to its carcinogenicity to humans". (In October 2001, the International Agency for Research on Cancer "IARC", part of the World Health Organisation reviewed its 1987 classification of mineral wool fibers and removed them from the list of possible carcinogens).

12 Ecological information

Stable product with no known adverse environmental effects.

13 Disposal considerations

No special precautions.

- 13.1 Hazardous waste regulations; ROCKWOOL insulation is classified as non-hazardous waste. Dispose according to local regulations.
- 13.2 Landfill regulations: ROCKWOOL insulation waste is categorized as "waste accepted at landfills for non-hazardous waste".

14. Transport information

- 14.1 Not regulated by any transport mode. No special precautions.

15 Regulatory information

- 15.1 According to IARC rock (stone) wool is classified as Group 3, "not classifiable as to its carcinogenicity to humans". (In October 2001, the International Agency for Research on Cancer "IARC", part of the World Health Organisation reviewed its 1987 classification of mineral wool fibers and removed them from the list of possible carcinogens).
- 15.2 Exposure Limits: Recommended Workplace exposure limit (WEL) to meet country's requirements on the 8 hour time weighted average gravimetric measure.

16 Further information

- 16.1 Potential Health Effects: IARC Monograph Man-made Vitreous Fibres, press release October 2001 Safety in the Use of Mineral and Synthetic Fibers, Occupational Safety and Health Series. International Labor Office (ILO).

- 16.2 All products manufactured are made of non-classified fibres and are certified by EUCEB.
EUCEB, European Certification Board of Mineral Wool Products - www.euceb.org, is a voluntary initiative by the mineral wool industry. It is an independent certification authority that guarantees that products are made of fibres, which comply with the exoneration criteria for carcinogenicity (Note Q) of the Directive 97/69/EC and the Regulation (EC) 1272/2008.

To ensure that fibres comply with the exoneration criteria all tests and supervision procedures are carried out by independent, expert qualified institutions. EUCEB ensures that the producers of mineral wool have put in place self-control measures.

The mineral wool producers commit to EUCEB to:

- Supply sampling and analysis reports established by laboratories recognized by EUCEB, proving that the fibres comply with one of the four criteria of exoneration described in Note Q of the Directive 97/99/EC,
- Be controlled, twice per year, of each production unit by an independent third party recognized by EUCEB (sampling and conformity to the initial chemical composition),
- Put in place procedures of internal self-control in each production unit.

The products responding to the EUCEB certification are recognized by the EUCEB logo put on the packaging.



EUCEB is an ISO 9001:2000 certified association.

This information reflects typical values and is not a product specification. No warranty expressed or implied is hereby made.



Safety Datasheet (SDS)
ROCKWOOL Stone Wool Insulation Products

Persons who wish to obtain more detailed information have to contact the producer (address on the first page of this sheet).

Information given in this document is on the state of our knowledge regarding this material.

It is given in good faith.

The attention of users is drawn to possible risks taken when the product is used for other application than the ones it has been designed for.