

Safety Data Sheet Mineral Wool Insulation

SAFETY DATA SHEET (SDS) IN ACCORDANCE WITH ANNEX II TO REGULATION (EC) NO 1907/2006 (REACH), AS AMENDED BY COMMISSION REGULATION (EU) NO 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1	Product identifier:	Mineral Wool Insulation	
1.2	Relevant identified uses of the substance/mixture and uses advised against:	Thermal insulation, acoustic insulation and fire protection in building construction applications. No uses advised against for physical, health and environmental considerations as covered by REACH. In terms of site use, the product shall be used in accordance with technical guidance published by ROCKWOOL®.	
1.3	Details of the supplier of the safety data sheet:	ROCKWOOL® Pencoed, Bridgend, CF35 6NY Tel: 01656 862621 Fax: 01656 862302 Email of person responsible: sds@rockwool.com	
1.4	Emergency telephone number:	ROCKWOOL® Customer Solutions and Sales Support 9am- 5pm Tel: 0871 222 1780 Email: sds@rockwool.com	

SECTION 2: HAZARD IDENTIFICATION

2.1	Classification of the substance or mixture	There is no hazard statement associated with this material. ROCKWOOL® mineral wool is not classified as dangerous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).	
2.2	Label elements	The overall conclusion in accordance with the CLP regulation, REACH registration and the Globally Harmonised System (GHS) is that there are no hazardous classifications associated with ROCKWOOL® fibres in respect to physical, health and environmental considerations.	
2.3	Other hazards	Use of high-speed cutting tools can generate dust. If in contact with constant heat >175°C, the binder will be slowly broken down. Further information can be found in Section 8.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Substances		
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Substance	EC identification number	REACH registration number	Content (% weight)	Classification, labelling and packaging (EU Regulation (CE) 1272/2008)
Stone wool ¹	926-099-9	01-211-947-2313-44	95-100%	Not classified ²
Synthetic thermosetting polymer binder			0-5%	Not classified
Mineral oil			0-0.5%	Not classified
Silicon oil/emulsion ³			0-0.5%	Not classified
<p>¹ 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 and fulfilling one of the Nota Q conditions of Regulation 1272/2008.</p> <p>² Not classified H351 "suspected of causing cancer". Stone wool fibres are not classified carcinogenic according to the Nota Q of Regulation 1272/2008. ROCKWOOL® stone wool products do not contain CLP classified substances >0.1%.</p> <p>³ Silicon oil/emulsion is used in place of mineral oil in certain ROCKWOOL® products such as preformed pipe sections.</p>				
3.2	Facing materials	ROCKWOOL® may be supplied faced with various common building materials such as aluminium foil, mineral tissue/scrim/fleece, polyethylene/polypropylene film, wire mesh, bitumen, plaster board, cementitious board, ablative coatings, etc.		

SECTION 4: FIRST AID MEASURES

4.1	Description of first aid measures		
	Inhalation:	Remove from exposure. Rinse the throat and clear dust from airways.	
	Skin:	If itching occurs, remove contaminated clothing and wash skin gently with cold water and mild soap.	
	Eye:	Rinse abundantly with water for at least 15 minutes.	
	Ingestion:	Drink plenty of water if accidentally ingested.	
4.2	Most important symptoms and effects, both acute and delayed	The mechanical effect of coarse fibres in contact with throat, skin or eyes may cause temporary itching/ inconvenience.	
4.3	Indication of any immediate medical attention and special treatment needed	None required. If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.	

SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing media		
	Suitable extinguishing media:	Water, foam, carbon dioxide (CO ₂), and dry powder	
	Unsuitable extinguishing media:	None	
5.2	Special hazards arising from the substance or mixture	None special. Use normal body and respiratory protection for fire.	
5.3	Advice for firefighters	The unfaced products are non-combustible, some packaging materials or facings may however be combustible.	

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	In case of presence of high concentrations of dust, use the same personal protective equipment as mentioned in section 8.	
6.2	Environmental precautions	None required	
6.3	Methods and materials for containment and cleaning up	Vacuum cleaner or dampen with water spray prior to sweeping up.	
6.4	Reference to other sections	For personal protection equipment, see section 8. For waste disposal, see section 13.	

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	No specific measures. Preferably use a knife for cutting. If a power tool is used, provide effective dust extraction. Ensure adequate ventilation of workplace. See section 8. Avoid unnecessary handling of unwrapped product. See section 8.	
7.2	Conditions for safe storage, including any incompatibilities		
	Technical measures:	No special measures necessary.	
	Suitable storage conditions:	Products should be kept dry, if possible in original packaging.	
	Incompatible materials:	None.	
	Packaging material:	Products are typically packed in polyethylene film, cardboard and/or on wooden pallets.	

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	Workplace exposure limit (WEL) 5mg/m ³ gravimetric measure (total inhalable dust) and 2 fibres/ml airborne fibre limit, 8-hour time weighted averages. HSE guidance assumes that the gravimetric measure would be reached before the fibre measure. (Ref. HSE EH40).	
8.2	Exposure controls		
8.2.1	Appropriate engineering controls	No specific requirements	
8.2.2	Individual protection measures, such as personal protective equipment		
	Eye protection:	Wear goggles if working above shoulders or where there is heavy dust development. Eye protection to EN 166 is advised.	
	Hand protection:	Use gloves conforming with EN 388 to avoid itching.	
	Skin protection:	Cover exposed skin.	
	Respiratory protection:	When working in unventilated areas or during operations which can generate emission of (various) dusts, wearing a	

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		<p>disposable face mask in accordance with EN 149 FFP1 is recommended.</p> <p>At high temperatures not usually found in building construction (>175°C), the product binder will slowly decompose and trace gases will be released. When high temperature appliances are first put into service, gases should be vented to control exposure to fumes or appropriate respirators used.</p>	
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The following text and pictograms are printed on packaging:

The mechanical effect of fibres in contact with skin may cause temporary itching.

		<p>Cover exposed skin. When working in unventilated area, wear disposable face mask.</p>
		<p>Rinse in cold water before washing.</p>
		<p>Clean area using vacuum equipment.</p>
		<p>Ventilate working area if possible.</p>
		<p>Waste should be disposed of according to local regulations.</p>
		<p>Wear goggles when working overhead.</p>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties		
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	a) Appearance	Solid, grey-green	
	b) Odour	Odourless	
	c) Odour threshold	Not relevant. No odour	
	d) pH	Not relevant. Solid	
	e) Melting point	>1000°C	
	f) Initial boiling point and range	Not relevant. Solid	
	g) Flash point	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)	
	h) Evaporation rate	Not relevant. Solid	
	i) Flammability	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)	
	j) Upper/lower flammability or explosive limits	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)	
	k) Vapour pressure	Not relevant. Solid	
	l) Vapour density	Not relevant. Solid	
	m) Relative density	Depends on product (typ. between 20 and 300 kg/m ³)	
	n) Solubility (ies)	Generally chemically inert and insoluble in water	
	o) Partition coefficient n-octanol/water	Not relevant. Insoluble in water	
	p) Auto-ignition temperature	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)	
	q) Decomposition temperature	When heated to approx 175°C for the first time, release of binder decomposition products occurs	
	r) Viscosity	Not relevant. Solid	
	s) Explosive properties	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)	
	t) Oxidising properties	Not relevant. Non-oxidising	
9.2	Other information	No further chemical or physical properties to report.	

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Not reactive	
10.2	Chemical stability	Stable	
10.3	Possibility of hazardous reactions	Not reactive	
10.4	Conditions to avoid	None specified	
10.5	Incompatible materials	None specified	
10.6	Hazardous decomposition products	When heated to approx 175°C for the first time, release of binder decomposition products occurs. See 8.2.2	

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects		
	a) Acute toxicity	No acute toxicity	
	b) Irritation	In the case of coarser fibres there can be mechanical effects on skin, upper respiratory system (mucous membranes) and eyes that can cause temporary, self-fading effects (e.g. itching). No chemical	

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		effects ensue.	
	c) Corrosivity	No corrosivity	
	d) Sensitisation	No sensitisation	
	e) Repeated dose toxic	No repeated dose toxicity	
	f) Carcinogenicity	None. Owing to its high bio-solubility, the fibre used in ROCKWOOL® stone wool insulation materials is assessed as free from suspicion of possible carcinogenic effects in accordance with Regulation (EC) No 1272/2008 (ref. Nota Q). In October 2001, the International Agency for Research on Cancer (IARC) classified rock (stone) wool insulation as Group 3 (not classifiable as to its carcinogenicity in humans) ie not suspected of causing cancer in humans.	
	g) Mutagenicity	No mutagenicity	
	h) Toxicity for reproduction	No toxicity for reproduction	

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	None. This product is not expected to cause harm to animals or plants during normal conditions of use. Stone wool is principally made from non scarce rock material and recycled stone wool.	
12.2	Persistence and degradability	None	
12.3	Bioaccumulative potential	None	
12.4	Mobility in soil	None	
12.5	Results of PBT and vPvB assessment	No assessment required	
12.6	Other adverse effects	Relying on entrapped air for its thermal properties, the products do not, and never have used blowing agents with Ozone Depleting Potential or Global Warming Potential. No flame retardants are added.	

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	ROCKWOOL® material is recyclable. Please refer to our website www.rockwool.co.uk for more information. ROCKWOOL® insulation is classified as non-hazardous waste. ROCKWOOL® insulation waste is covered by the non-hazardous entry "17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03" in the European Waste Catalogue, established by EC Decision 2000/532/EC (hazardous waste). Under landfill regulations ROCKWOOL® insulation waste is categorised as "waste accepted at landfills for non-hazardous waste" in accordance with EC Decision 2003/33/EC	
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(landfill acceptance criteria).

SECTION 14: TRANSPORT INFORMATION

14.1	UN number	Not applicable	
14.2	UN proper shipping name	Not applicable	
14.3	Transport hazard class(es)	Not applicable	
14.4	Packing group	Not applicable	
14.5	Environmental hazards	Not applicable	
14.6	Special precautions for user	Not specified	

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/ legislation specific for the substance or mixture		
	The overall conclusion in accordance with the CLP, GHS and REACH regulations is that there are no hazardous classifications associated with ROCKWOOL® fibres in respect to physical, health and environmental aspects.		
15.2	Chemical safety assessment	No assessment required	

SECTION 16: OTHER INFORMATION

	This safety data sheet has been prepared in accordance with Annex II to Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) No 2015/830.	
	Although REACH Regulations do not require a safety data sheet to be provided for ROCKWOOL® stone wool insulation, this format is used by ROCKWOOL® to provide standardized health and safety information.	
	All stone wool insulation products supplied by ROCKWOOL® Limited are made of fibres exonerated from classification as a carcinogen in accordance with Regulation (EC) No. 1272/2008 (ref. Nota Q).	
	ROCKWOOL® fibres are subject to independent assessment by EUCEB.	
	Membership of the EUCEB certification scheme is voluntary and certifies compliance with the parameters laid down in Nota Q, as defined by Regulation (EC) No. 1272/2008.	
	This data sheet does not constitute a workplace assessment.	
	The information provided represents the state of our knowledge regarding this material at the date of its publication.	
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