

Safety Data Sheet (SDS) in accordance with REACH Regulation (EC) No 1907/2006

<b>Company:</b> <i>Rockwool Limited, Pencoed, Bridgend, CF35 6NY</i>	
<b>Trade name:</b> Rockwool	<b>Product name:</b> Rockwool stone wool insulation products
<b>Revised on:</b> 5 May 2010	<b>Replaces issues:</b> 20 July 2009
<b>Authorised by:</b> N Ralph	
<b>Changes made:</b> Supplementary information provided on Workplace Exposure Limits. Pictograms used on packaging added. 5 May 2010. Re-formatted to conform to REACH regulations. R38 classification removed from Sections 2 and 15. 20 July 2009.	

<b>1</b>	<b>Product and company identification</b>																
1.1	Product name: ROCKWOOL 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)																
1.4	Company address:	ROCKWOOL Limited Pencoed Bridgend CF35 6NY															
1.5	Contact: ROCKWOOL Limited Technical Support Department.	Tel: 01656 862 621 Fax: 01656 862 302															
1.6	E-mail of person responsible for SDS: nick.ralph@rockwool.co.uk																
<b>2</b>	<b>Hazards identification</b>																
2.1	Hazards: ROCKWOOL mineral fibre is not classified as dangerous according to EU Directives 67/548/EEC and 1999/45/EC and its amendments (Regulation (EC) No 1272/2008) on classification, labelling and packaging of substances and mixtures.																
2.2	Carcinogenicity: None																
<b>3</b>	<b>Composition/ information on ingredients</b>																
	<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 (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content greater than 18 % by weight</td> <td>287922-11-6</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); or</td> <td>-</td> <td>Up to 0.3%</td> </tr> <tr> <td>Silicon oil; or Silicon emulsion (for water repellency)</td> <td>-</td> <td>Up to 0.5%</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 <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content greater than 18 % by weight	287922-11-6	95-99%	Bakelite synthetic thermosetting resin binder	-	Up to 5%	Mineral oil (for water repellency); or	-	Up to 0.3%	Silicon oil; or Silicon emulsion (for water repellency)	-	Up to 0.5%
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<b>4</b>	<b>First-aid measures</b>																
4.1	<p><b>Skin:</b> If irritation occurs, wash off under cold running water prior to washing with mild soap. Do not rub or scratch. Consult a physician if irritation persists.</p> <p><b>Throat:</b> If irritation occurs, clean throat by rinsing with cold, potable water. Leave dusty area for fresh air. Consult a physician if irritation persists.</p> <p><b>Eyes:</b> If irritation occurs, check for and remove any contact lenses, flush eyes with potable cold water. Do not rub eyes. Seek medical attention.</p> <p><b>Ingestion:</b> If ingested, may cause transient irritation to the digestive tract. Seek medical attention.</p>																
4.2	<p><b>Binder gasses</b> If eye or respiratory irritation occurs leave source of contamination and get fresh air. Consult a physician if irritation persists.</p>																

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<p><b>5</b></p> <p><b>Fire-fighting measures</b></p> <p>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.</p> <p>5.1 Suitable extinguishing media: Water, foam, carbon dioxide or dry powder.</p> <p>5.2 Extinguishing media that must not be used for safety reasons: None.</p> <p>5.3 Combustion products: Carbon dioxide, carbon monoxide and trace gasses.</p> <p>5.4 Special protective equipment for fire fighters: Observe normal fire fighting procedures.</p>
<p><b>6</b></p> <p><b>Accidental release measures</b></p> <p>No special measures required.</p>
<p><b>7</b></p> <p><b>Handling and storage</b></p> <p>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.</p> <p>7.2 Storage: Keep material in original packaging until it is to be used. Store material to protect against damage including the weather.</p>

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## 8 Exposure controls/ personal protection

### 8.1 Respiratory protection

*Fibres:* Workplace exposure limit (WEL) 5mg/m<sup>3</sup> gravimetric measure (total inhalable dust) and 2 fibres/ml airborne fibre limit, 8-hour time weighted averages. If the WEL is likely to be 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. HSE guidance assumes that the gravimetric measure would be reached before the fibre measure.

*Initial heating up:* 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. In general, decomposition products from pyrolysis or burning of organic material can cause respiratory sensitisation. There are no recorded incidents of respiratory sensitisation from gases released from Rockwool Limited products. However, 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.

8.3 Eye protection: With heavy dust development or when working with product above head height, the use of safety goggles is advised. Skin protection: No special requirements: loose fitting, long-sleeved, long-legged, work clothes advised. Change clothes and wash on completing work.

The following text and pictograms are printed on packaging:

**“The mechanical effect of fibres in contact with skin may cause temporary itching”**



Ventilate working area if possible



Waste should be disposed of according to local regulations



Cover exposed skin. When working in unventilated area wear disposable face mask



Clean area using vacuum equipment



Wear goggles when working overhead



Rinse in cold water before washing

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<b>9</b>	<b>Physical and chemical properties</b>
9.1	Appearance: solid, grey-green
9.2	Odour: n.a.
9.3	pH (at 1000g/H <sub>2</sub> 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: )
9.7	Flammability: )
9.8	Auto-flammability: ) A1 non combustible (ref. UK and Ireland Building Regulations)
9.9	Explosive properties: )
9.10	Explosive properties: n.a.
9.11	Oxidising properties: n.a.
9.12	Vapour pressure: n.a.
9.13	Fibre density: n.a.
9.14	Solubility: generally chemically inert and insoluble in water
9.15	Partition coefficient: n.a.
9.16	Other data: n.a.
<b>10</b>	<b>Stability and reactivity</b>
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.
<b>11</b>	<b>Toxicological information</b>
11.1	Carcinogenic, mutagenic and reproductive toxic effects: NONE. Human epidemiological studies show no link between exposure to mineral wool fibres and lung disease or any other chronic effects. Owing to their high bio-solubility, the fibre types of ROCKWOOL stone wool insulation materials are assessed as free from suspicion of possible carcinogenic effects in accordance with EU Directive 97/69/EC (Note Q). This Directive is incorporated into UK health and safety legislation through The Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regulations - known as CHIP.
11.2	In October 2001, the International Agency for Research on Cancer ("IARC", part of the World Health Organisation) reviewed its 1987 classification of mineral wool fibres and removed them from its list of possible carcinogens, reflecting the increase in scientific knowledge and the established safety of mineral wool for workers and building occupiers. IARC scientists gave mineral wool insulation, formerly classified as a precautionary principle as Group 2B (possibly carcinogenic to humans), a Group 3 classification (unclassifiable as to its carcinogenicity in humans).
11.3	Other observations: In the case of coarser fibres, there can be physical effects on skin, upper respiratory system (mucous membranes) and eyes that can cause temporary, self-fading effects (eg itching). No chemical effects ensue.
<b>12</b>	<b>Ecological information</b>
	Stable product with no known adverse environmental effects.
<b>13</b>	<b>Disposal considerations</b>
	No special precautions.
13.1	Hazardous waste regulations; ROCKWOOL insulation is classified as non-hazardous waste. ROCKWOOL insulation waste is

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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 List of Wastes/the European Waste Catalogue (EWC).	
13.2	Landfill regulations: ROCKWOOL insulation waste is categorized as "waste accepted at landfills for non-hazardous waste".
<b>14. Transport information</b>	
14.1	ADR/RID/IMDG/IATA Classes: not regulated by any transport mode. No special precautions.
<b>15. Regulatory information</b>	
15.1	EU and UK Regulations: ROCKWOOL mineral fibre is not classified as dangerous according to EU Directives 67/548/EEC and 1999/45/EC and its amendments (Regulation EC 1272/2008) on classification, labelling and packaging of substances and mixtures.  Risk phrases: In accordance with EU legislation, this product is not classified.
15.2	Exposure Limits: : Workplace exposure limit (WEL) 5mg/m <sup>3</sup> gravimetric measure (total inhalable dust) and 2 fibres/ml airborne fibre limit, 8-hour time weighted averages.
<b>16. Further information</b>	
Health and Safety Executive Guidance Note EH40 – Occupational Exposure Limits Health and Safety Commission "The Chemicals (Hazard Information and Packaging for Supply) Regulations" - 'CHIP' Hazardous Waste Regulations List of Wastes/ European Waste Catalogue (EWC) Environment Agency Technical Guidance WM2, "Interpretation of the definition and classification of hazardous waste" Landfill Regulations Eurisol Health Statement This Safety Data Sheet is in accordance with EU Directive 91/155/EEC, amended by 93/112/EC and 2001/58/EC.	
This information reflects typical values and is not a product specification. No warranty expressed or implied is hereby made.	
This safety data sheet does not constitute an assessment of workplace risk for COSHH.	

