ROCKWOOL®

ROCKWOOL® Insulation

1. Identification of the substance/mixture and of the company

1.1 Product identifier
ROCKWOOL® insulation

REACH registration number 01-2119472313-44

1.2 Relevant identified uses of the substance or mixture and uses advised against
Thermal insulation, acoustic insulation, fire protection

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® Ltd, Pencoed, Bridgend, CF35 6NY
Tel: 01656 862621 Fax: 01656 862302
Email of person responsible: sds@rockwool.com

1.4 Emergency telephone number
ROCKWOOL® Ltd Technical Support Department 9am-5pm
Tel: 0871 222 1780

2. Hazards identification

2.1 Classification of the substance or mixture
ROCKWOOL® mineral wool 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 Label elements
The overall conclusion in accordance with the REACH regulation 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
- When heated to approximately 200°C for the first time, release of binder components and binder decomposition products can occur which, in high concentrations, may irritate the eyes and respiratory system
- Further information can be found in Section 8

3. Compostion/information on ingredients

Descriptions	Cas no./ REACH Registration no.	Symbol
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	287922-11-6 01-2119472313-44	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%

4. First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation
If irritation occurs, clean throat by rinsing with cold, potable water. Leave dusty area for fresh air. Consult a physician if irritation persists.

4.1.2 Skin
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

4.1.3 Eye
If irritation occurs, check for and remove any contact lenses, flush eyes with potable cold water. Do not rub eyes. Seek medical attention

4.1.4 Ingestion
If ingested, may cause transient irritation to the digestive tract. Seek medical attention

4.2 Most important symptoms and effects, both acute and delayed
The mechanical effect of fibres in contact with throat, skin or eyes may cause temporary irritation

4.3 Indication of any immediate medical attention and special treatment needed
None required

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5. Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media
Water, foam, carbon dioxide or dry powder

5.1.2 Unsuitable extinguishing media
None

5.2 Special hazards arising from the substance or mixture

The products are non-combustible and do not pose a fire hazard. Some facings and packaging materials may burn.

5.4 Advice for firefighters

Observe normal firefighting procedures

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special requirements. It is recommended for comfort that long-legged, long-sleeved clothing and gloves in conformity with EN 388 are worn. Safety goggles in conformity with EN 166 may be worn if a lot of dust has been generated

6.2 Environmental precautions

None required

6.3 Methods and materials for containment and cleaning up

Spray with water before sweeping or use vacuum equipment

6.4 Reference to other sections

Recommended personal protection equipment and waste disposal considerations are covered in sections 8 and 13

7. Handling and storage

7.1 Precautions for safe handling

Unpack materials at application site to avoid unnecessary handling of product. Dispose of scrap material and debris in suitable containers. Keep work areas clean. Do not eat, drink or smoke in work areas. Wash hands after use rinsing under cold water before using soap. Change clothes and wash on completing work

7.2 Conditions for safe storage, including any incompatibilities

Keep material in original packaging until it is to be used. Store material to protect against damage including the weather

7.3 Specific end use(s)

None required

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.

8.2 Exposure controls

8.2.1 Appropriate engineering controls
None required

8.2.2 Individual protection measures, such as personal protective equipment

- **Eye protection:** With heavy dust development or when working with product above head height, the use of safety goggles is advised
- **Skin protection:**
  Hands: It is recommended that gloves in conformity with EN 388 are worn for comfort
  Other: No special requirements. It is recommended for comfort that long-legged, long-sleeved work clothing is worn
- **Respiratory protection:** 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. 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 detectd by their acrid odour and high concentrations of these gases 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® Ltd 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

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8. Exposure controls/Personal protection continued

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 mask


Clean area using vacuum equipment


Wear goggles when working overhead


Rinse in cold water before washing

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Solid, grey-green
Odour:	None
Odour threshold:	See above - no odour therefore not applicable
pH:	At 1000g/$H_2$0, 25^{0}C: Neutral or slightly alkaline (pH 7-9)
Melting point:	Above 1000^{0}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
Initial boiling point and boiling range:	Solid material therefore not applicable
Flash point:	A1 non-combustible (ref UK and Ireland Building Regulations)
Evaporation rate:	Solid material therefore not applicable
Flammability:	A1 non-combustible (ref. UK and Ireland Building Regulations)
Upper/lower flammability or explosive limits:	See above non-combustible therefore not applicable
Vapour pressure:	Solid material therefore not applicable
Vapour density:	See above - solid material therefore not aplicable
Relative density:	Solid material therefore not applicable
Solubility(ies):	Generally chemically inert and insoluble in water
Partition coefficient n-octanol/water:	See above - insoluble therefore not applicable
Auto-ignition temperature:	A1 non-combustible (ref. UK and Ireland Building Regulations)
Decomposition temperature:	When insulation wool is heated to approximately 200^{0}C for the first time(s), release of binder components and binder decomposition products occurs
Viscosity:	Solid material therefore not applicable
Explosive properties:	A1 non-combustible (ref. UK and Ireland Building Regulations)
Oxidising properties:	Non-oxidising material therefore not applicable

9.2 Other information

No further chemical or physical properties to report

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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 insulation wool is heated to approximately 200^{0}C for the first time(s), release of binder components and binder decomposition products occurs.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	No acute toxicity
Irritation:	In the case of coarser fibres there can be physical effects on skin, upper respiratory system (mucous membranes) and eyes than can cause temporary, self-fading effects (e.g. itching). No chemical effects ensue
Corrosivity:	No corrosivity
Sensitisation:	No sensitisation
Repeated dose toxicity:	No repeated dose toxicity
Carcinogenicity:	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). In October 2001, the International Agency for Research on Cancer (IARC) classified mineral wool insulation as Group 3 (not classifiable as to its carcinogenicity in humans). i.e. not classified as possibly carcinogenic to humans
Mutagenicity:	No mutagenicity
Toxicity for reproduction:	No toxicity for reproduction

12. Ecological information

12.1 Toxicity
None

12.2 Persistence and degradability
None

12.3 Bioaccumulative potential
None

12.4 Mobility in soil
None

12.5 Result of PBT and vPvB Assessment
No assessment required

12.6 Other adverse effects
Relying on entrapped air for its thermal properties, ROCKWOOL® does not and never has used blowing agents with Ozone Depleting Potential or Global Warming Potential

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 (landfill acceptance criteria)

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
None specified

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15. Regulatory information

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

The overall conclusion in accordance with the REACH regulation is that there are no hazardous classifications associated with ROCKWOOL® fibres in respect to physical, health and environmental considerations

15.2 Chemical safety assessment

No assessment required

16. Other information

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

MIMA/Eurisol Health Statement

This Safety Data Sheet has been prepared in accordance with European Commission Regulation (EU) No 453/2010 (REACH).

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.

The information provided does not constitute a product specification and no warranty expressed or implied is hereby made

The information relates only to the specific material designated when used in applications it has been designed for. This information may not be valid for such material used in combination with any other materials or in any other processes, unless specified in the text.

UK health and safety regulations (including REACH) do not require a Safety Data Sheet (SDS) to be provided for mineral wool insulation. However, MIMA, the Mineral wool Insulation Manufacturers Association, members voluntarily make REACH compliant safety data sheets available for their products to ensure that health and safety information is provided in a recognised standard format.

Company	ROCKWOOL® Limited, Pencoed, Bridgend, CF35 6NY
Trade name	ROCKWOOL®
Revised on	05 October 2012
Authorised by	N Ralph
Product name	ROCKWOOL® stone wool insulations products
Replaces issue	11 October 2011
Changes Made	Layout amended to enable branding. Updated PPE references. Legal disclaimer updated. Contact email address changed. 04 October 2012
	Re-formatted to bring headings in line with Commission Regulation (EU) 453/2010 (REACH). 05 May 2011
	Supplementary information provided on Workplace Exposure Limits. Pictograms used on packaging added. 05 May 2010
	Re-formatted to conform to REACH regulations. R38 classification removed from Sections 2 and 15 in accordance with Commission Regulation (EC) 790/2009. 20 July 2009
Additional Information	UK health and safety regulations (including REACH) do not require a Safety Data Sheet (SDS) to be provided for mineral wool insulation. However, MIMA, the Mineral wool Insulation Manufacturers Association, members voluntarily make REACH compliant safety data sheets available for their products to ensure that health and safety information is provided in a recognised standard format.