

# Siderise stone wool insulation products

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

### 1.1 Product identifier

Siderise Stone wool Insulation products.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Fire, acoustic and thermal insulation.

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 Siderise.

### 1.3 Details of the supplier of the Material data sheet

Siderise Group

Forge Industrial Estate, Maesteg, Bridgend CF34 0AH

United Kingdom

Tel: +44 (0)1656 730 833

Fax: +44 (0)1656 812 509

Email: [technical.services@siderise.com](mailto:technical.services@siderise.com)

Web: [www.siderise.com](http://www.siderise.com)

### 1.4 Emergency telephone number

Siderise office 9am to 5pm - Tel: +44 (0)1656 730 833

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

There is no hazard statement associated with this material. Stone wool is not classified as dangerous according to 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 CLP Regulation, REACH regulation, and Globally Harmonised System (GHS) is that there are no hazardous classifications associated with stone wool fibres in respect to physical, health and environmental considerations.

### 2.3 Other hazards

Does not result in classification: Cutting or fabrication can generate dust.

When heated to approximately 150°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. Composition / information on ingredients

### 3.1 Substances

Name	EC identification number	REACH registration number	Content (% weight)	Classification labelling & packaging (EU Regulation [CE] 1272/2008)
Stone wool [1]	926-099-9	01-211-947-2313-44	95 – 100%	Not classified [2]
Mineral oil			0 – 0.5%	Not classified

Note:

[1] 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 and meeting the requirements of Nota Q Regulation 1272/2008

[2] Not classified H351 “suspected of causing cancer”. Stone wool insulation fibres are not classified as carcinogenic according to Nota Q of Regulation 1272/2008. Stonewool products do not contain CLP classified substances >0.1%.

### 3.2 Mixtures

Name	EC identification number	REACH registration number	Content (% weight)	Classification labelling & packaging (EU Regulation [CE] 1272/2008)
Synthetic thermosetting polymer binder	926-099-9	01-211-947-2313-44	0 – 5%	Not classified
Silicon oil/emulsion[3]			0 – 0.5%	Not classified

Note:

[3] Silicon oil and silicon emulsion used in Siderise stone wool products.

Siderise stone wool insulation products may be supplied faced with various common materials such as aluminium foil, mineral tissue/scrim/fleece, polyethylene/polypropylene film, cementitious board, etc.

## 4. First aid measures

### 4.1 Description of first aid measures

#### 4.1.1 Inhalation

In case of discomfort, leave dusty area. Blow nose and rinse throat with clean water to clear any dust.

#### 4.1.2 Skin contact

In case of discomfort, remove contaminated clothing and wash skin gently with clean cold water and mild soap.

#### 4.1.3 Eye contact

In case of contact with eyes, rinse abundantly with clean water for at least 15 minutes.

#### 4.1.4 Ingestion

If ingested, drink plenty of water.

### 4.2 Most important symptoms and effects, both acute and delayed

The mechanical effect of fibres in contact with skin or eyes can cause temporary itching.

### 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.

## 5. Fire fighting 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 known.

### 5.2 Special hazards arising from the substance or mixture

Unfaced products are non-combustible and do not pose a fire hazard. Some facings and packaging materials may burn. Products of combustion from product and packaging - carbon dioxide, carbon monoxide and some trace gases such as ammonia, nitrogen oxides and volatile organic substances.

### 5.3 Advice for firefighters

Observe normal firefighting procedures. In large fires in poorly ventilated areas involving packaging materials, respiratory protection/breathing apparatus may be required.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment, and emergency procedures

Gloves should be worn to protect skin from irritation or cuts. Use personal protective equipment as described in Section 8.

#### 6.1.1 For non emergency personnel

In situations where there are high concentrations of dust, use personal protective equipment as detailed in section 8.

#### 6.1.2 For emergency responders

Use appropriate personal protective equipment.

### 6.2 Environmental precautions

No environmental precautions specific to the product. General guidance: keep spills away from drains, surface and ground water.

### 6.3 Methods and materials for containment and cleaning up

Spray with water before sweeping or use vacuum equipment.

#### 6.3.1 How to contain a spill

No containment techniques specific to the product. General guidance: keep spills away from drains, surface and ground water.

#### 6.3.2 How to clean up a spill

Place waste in containers suitable for disposal. Use vacuum cleaner or dampen with water spray prior to sweeping up. Ensure good ventilation.

### 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

#### 7.1.1 Recommendation for safe handling

No specific measures. Recommended personal protection equipment and waste disposal considerations are covered in sections 8 and 13.

#### 7.1.2 General occupational hygiene

- a) Do not eat, drink, or smoke in work areas.
- b) Wash hands after use.
- c) Remove contaminated clothing and protective equipment before entering eating.

### 7.2 Conditions for safe storage, including any incompatibilities

Suitable storage conditions: Where possible, store product in original packaging. Keep dry and protect against mechanical damage.

Incompatible materials: None under normal conditions of use.

Packaging: Products typically packed in polyethylene film, cardboard and/or on wooden pallets.

### 7.3 Specific end use(s)

Fire, acoustic and thermal insulation applications in accordance with Siderise recommendations.

## 8. Exposure controls / personal protection

### 8.1 Control parameters

UK workplace exposure limit (WEL) in accordance with HSE guidance EH40:

Long-term exposure limit (8-hr TWA reference period): 5mg/m<sup>3</sup> gravimetric measure (total inhalable dust) and 2 fibres/ml airborne fibre limit.

Short-term exposure limit: none.

DNEL/PNEC: Not applicable.

### 8.2 Exposure controls

#### 8.2.1 Engineering Measures

Ensure adequate ventilation.

### 8.3 Individual protection measures, such as personal protective equipment

#### 8.3.1 Eye protection

With dust development or particularly when working with product above shoulder height, the use of safety goggles to EN 166 is advised.

#### 8.3.2 Skin protection

**Hands:** It is recommended that protective gloves in conformity with EN 388 are worn for comfort.

**Other:** Cover exposed skin to avoid possible itching.

#### 8.3.3 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 150°C for the first time, release of binder components and binder decomposition products occurs. The fumes can be detected 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 Siderise 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.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- a) **Physical State:** Solid
- b) **Appearance:** Grey-green/Ochre (without facings).
- c) **Odour:** None.
- d) **Odour threshold:** See above - no odour therefore not applicable.
- e) **pH:** Not relevant.
- f) **Melting point:** Above 1000°C. The limiting temperature applicable for use is dependant upon specific product type and intended application and must taken from the appropriate Siderise data sheet.
- g) **Initial boiling point & boiling range:** Solid material therefore not applicable.
- h) **Flash point:** A1 non-combustible (ref UK and Ireland Building Regulations).
- i) **Evaporation rate:** Solid material therefore not applicable.
- j) **Flammability:** A1 non-combustible (ref UK and Ireland Building Regulations).
- k) **Upper/lower flammability or explosive limits:** See above - non-combustible therefore not applicable.
- l) **Vapour pressure:** Solid material therefore not applicable.
- m) **Vapour density:** See above - solid material therefore not applicable.
- n) **Relative density:** Solid material therefore not applicable.
- o) **Solubility(ies):** General chemically inert and insoluble in water.
- p) **Partition coefficient n-octanol/water:** See above - insoluble therefore not applicable.
- q) **Auto-ignition temperature:** A1 non-combustible (ref UK and Ireland Building Regulations).
- r) **Decomposition temperature:** When insulation wool is heated to approximately 150°C for the first time(s), release of binder components and binder decomposition products occurs.
- s) **Viscosity:** Solid material therefore not applicable.
- t) **Explosive properties:** A1 non-combustible (ref. UK and Ireland Building Regulations).
- u) **Oxidising properties:** Non-oxidising material therefore not applicable.

## 9.2 Other information

No further chemical or physical properties to report.

# 10. Stability and reactivity

## 10.1 Reactivity

Not reactive.

## 10.2 Chemical stability

Stable under normal conditions of use.

## 10.3 Possibility of hazardous reactions

None under normal conditions of use.

## 10.4 Conditions to avoid

Heat exceeding 150°C.

## 10.5 Incompatible materials

None under normal conditions of use.

## 10.6 Hazardous decomposition products

When product is heated to approximately 150°C for the first time(s), release of binder components and binder decomposition products occurs.

# 11. Toxicological information

## 11.1 Information on toxicological effects

- a) **Acute toxicity:** No acute toxicity.
- b) **Irritation:** The mechanical effect of fibres in contact with skin, airways and eyes may cause temporary itching.
- c) **Corrosivity:** No corrosivity.
- d) **Sensitisation:** No sensitisation.
- e) **Repeated dose toxicity:** No repeated dose toxicity.
- f) **Carcinogenicity:** Owing to their high bio-solubility, the fibre types of Siderise stone wool insulation materials are 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 mineral wool insulation as Group 3 (not classifiable as to its carcinogenicity in humans). i.e. not classified as possibly carcinogenic to humans. Furthermore, there are no hazardous classifications associated with stone wool under REACH Regulations.
- g) **Mutagenicity:** No mutagenicity.
- h) **Toxicity for reproduction:** No toxicity for reproduction.

# 12. Ecological information

## 12.1 Toxicity

None.

## 12.2 Persistence and degradability

Inert inorganic product with Thermo set, inert polymer based on cured phenol formaldehyde resins; 0-5 %.

## 12.3 Bio-accumulative potential

None.

## 12.4 Mobility in soil

Not considered mobile. Less than 1% leachable organic carbon if landfilled.

### 12.5 Results of PBT and vPvB assessment

No assessment required.

### 12.6 Other adverse effects

None.

## 13. Disposal consideration

### 13.1 Waste treatment methods

Siderise stone wool material is recyclable. Stone wool insulation is classified as non-hazardous waste. Stone wool insulation waste is covered by the nonhazardous 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 Siderise insulation waste is categorised as "waste accepted at landfills for nonhazardous waste" in accordance with EC Decision 2003/33/ EC.

### 13.2 Disposal Methods

Waste not to be disposed of in drains or sewers. Dispose in accordance with regulations and procedures in force in country of use or disposal.

## 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.

## 15. Regulatory information

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

#### Safety data sheets

EU and UK regulations do not require a safety data sheet to be provided for Siderise stone wool insulation products. This Material data sheet is provided courtesy of Siderise to provide health and safety information in a standardised and recognisable format.

#### UK REACH

No hazardous classifications are associated with Siderise stone wool insulation, with respect to physical, health and environmental considerations, in accordance with REACH Regulation (EC) No. 1907/2006; and, accordingly, in accordance with UK REACH. Siderise stone wool insulation products do not contain substances in concentrations >0.1% by weight on the REACH Candidate List of Substances of Very High Concern (SVHC), the REACH Annex XIV Authorization List or the REACH Annex XVII Restriction List. Siderise stone wool insulation batts and slabs, are defined as articles in accordance with REACH Regulation (EC) No. 1907/2006.

**CLP and GB CLP**

No hazardous classifications are associated with Siderise stone wool insulation, in accordance with CLP Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures; and, accordingly, in accordance with the GB CLP Regulation.

**15.2 Chemical safety assessment**

No assessment required.

**15.3 Important notice**

The information included in this material data sheet is based on our most up to date knowledge and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed. No liability will be accepted (except as by specified by law) for use of information taken from this material data sheet. It is the responsibility of the user of this product to observe the rules and regulations.

**16. Other information****16.1 Additional information**

Siderise stone wool fibre is bio-soluble, and is not suspected of being carcinogenic in accordance with CLP Regulation (EC) No. 1272/2008.

**Hazardous waste regulations**

List of Wastes/European Waste Catalogue (EWC). Environment Agency Technical Guidance WM2, "Interpretation of the definition and classification of hazardous waste".

**16.2 Indication of changes**

Revision & Issue Date	Summary of changes
<b>Version 5.00, 29th October 2024</b>	Branding updated. Document reformatted from Safety Data sheet to Material Data sheet. All sections updated.
<b>Version 4, 10th August 2018</b>	Section 2, 3, 11 and 16 references to obsolete standards removed.
<b>Version 3, 25th May 2017</b>	Reference to "The Chemicals (Hazard Information and Packaging for Supply) Regulations" removed from Section 16.
<b>Version 2, 2nd July 2015</b>	Mineral oil content changed from 0-0.3% to 0-0.5% in Table 3. 16 July 2015 Re-formatted to bring headings in line with Commission Regulation (EU) 453/2010 (REACH). 05 May 2011. 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. Layout amended to enable branding.
<b>Version 1, March 2014</b>	First issue released.



## Context

Although the data found has been produced and processed from sources believed to be reliable and based on the best information currently available, no warranty expressed or implied is made regarding accuracy, adequacy, completeness, legality, reliability or usefulness of any information. Siderise provides this information on an "AS IS" basis. All warranties of anykind, express or implied, are disclaimed.

Changes may be periodically added to the information herein; Data can quickly become out of date.

It is recommended that the user pay careful attention to the contents of any information provided, and that Siderise be contacted with any questions regarding appropriate use. Siderise shall not be held liable for any improper or incorrect use of the information described and/or contained herein and assumes no responsibility for anyone's use of the information. In no event shall Siderise be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to: procurement of substitute goods or services; loss of use, data, or profits; or business interruption) resulting from the use of, or reliance on, the information.

## Further information

### Technical support

For further information please contact our technical team at the address below:

Email: [technical.services@siderise.com](mailto:technical.services@siderise.com)

### Products and technical information

Visit our website for product information and free technical downloads.

<b>Company</b>	Siderise Group, Forge Industrial Estate, Maesteg Bridgend CF34 0AH, United Kingdom
<b>Version</b>	5.00
<b>Revised on</b>	29th October 2024
<b>Authorised by</b>	Lee Nichols
<b>Product name</b>	Siderise stone wool insulation products
<b>Replaces version</b>	v4.00 August 2018
<b>Changes made</b>	Safety datasheet reformatted as a material data sheet. References to UK Reach and GB CLP added.
<b>Additional Information</b>	UK health and safety regulations (including REACH) do not require a Safety Data Sheet (SDS) to be provided for mineral wool insulation.

The information published herein is given in good faith and is believed to be accurate at the time of publication. Please check that this version is current. Siderise has a policy of continuous product improvement and reserves the right to alter or amend the specifications of products without prior notice. Siderise does not accept responsibility or the consequences of using the products and systems described outside of any given recommendations within this document or its other official documentation. Recommendations for use should be verified in regard to the suitability and compliance with actual requirements, specifications and any applicable laws, codes, and regulations. Expert advice should be sought where there is any doubt about the correct specification or installation of Siderise products and systems.