

SIDERISE[®] stone wool insulation products

SAFETY DATA SHEET

January 2024



Acoustic, fire and thermal insulation specialists

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 safety data sheet	Siderise Group, Forge Industrial Estate Maesteg UK CF34 0AY Tel: +44 (0)1656 730833; Fax: +44 (0)1656 812509 Email: sds@siderise.com; Web: www.siderise.com
1.4 Emergency telephone number	SIDERISE office 9am to 5pm - Tel: +44 (0)1656 730833

2. Hazards identification

2.1 Classification of the substance or mixture	There is no hazard statement associated with this material. Mineral 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	<ul style="list-style-type: none">• 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. Composition/Information on ingredients

Substance	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]
Synthetic thermosetting polymer binder			0–5%	Not classified
Mineral oil			0 –0.5%	Not classified

NOTE:

[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 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%.

3.1 Facing materials

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

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

4.1.3 Eye

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 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.

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.

5.3 Advice for firefighters Observe normal firefighting procedures.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures No special requirements. In situations where there are high concentrations of dust, use personal protective equipment as described in Section 8.

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

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/m³ 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

No specific requirements

8.3 Individual protection measures, such as personal protective equipment

8.3.1 Eye protection

With heavy dust development or particularly when working with product above shoulder height, the use of safety goggles to EN166 is advised.

8.3.2 Skin protection

Hands: It is recommended that gloves in conformity with EN 388 are worn for comfort.
Other: Cover exposed skin for comfort.

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 200°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) **Appearance:** Solid, green-brown, with or without facing
- b) **Odour:** None
- c) **Odour threshold:** See above - no odour therefore not applicable
- d) **pH:** Not relevant
- e) **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
- f) **Initial boiling point & boiling range:** Solid material therefore not applicable.
- g) **Flash point:** A1 non-combustible (ref UK and Ireland Building Regulations)
- h) **Evaporation rate:** Solid material therefore not applicable
- i) **Flammability:** A1 non-combustible (ref UK and Ireland Building Regulations)
- j) **Upper/lower flammability or explosive limits:** See above - non-combustible therefore not applicable
- k) **Vapour pressure:** Solid material therefore not applicable
- l) **Vapour density:** See above - solid material therefore not applicable
- m) **Relative density:** Solid material therefore not applicable
- n) **Solubility(ies):** General chemically inert and insoluble in water
- o) **Partition coefficient n-octanol/water:** See above - insoluble therefore not applicable
- p) **Auto-ignition temperature:** A1 non-combustible (ref UK and Ireland Building Regulations)
- q) **Decomposition temperature:** When insulation wool is heated to approximately 200°C for the first time(s), release of binder components and binder decomposition products occurs

- r) **Viscosity:** Solid material therefore not applicable
s) **Explosive properties:** A1 non-combustible (ref. UK and Ireland Building Regulations)
t) **Oxidising properties:** Non-oxidising material therefore not applicable

9.1 Other information

No further chemical or physical properties to report.

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°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 can 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

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, SIDERISE does not and never has used blowing agents with Ozone Depleting Potential or Global Warming Potential.

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.

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.

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 stone wool fibres in respect to physical, health and environmental considerations.

15.2 Chemical safety assessment

No assessment required.

15.3 Important notice

The information included in the safety 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 safety 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

Stone wool fibres are exonerated from classification as a carcinogen in accordance with Regulation EC 1272/2008 (ref. Nota Q).

The SIDERISE stone wool fibres are subject to independent assessment of compliance by the European Certification Board for Mineral Wool Products (EUCEB, www.euceb.org) on an ongoing, voluntary basis.

Health and Safety Executive Guidance Note EH40 – Occupational Exposure Limits.

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.

16.2 Indication of changes

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Company	Siderise Group, Forge Industrial Estate. Maesteg, UK, CF34 0AY
Trade Name	SIDERISE
Revised on	14th January 2024
Authorised by	Donel Dippi
Product name	SIDERISE stone wool insulation products
Replaces issue	August 2018
Changes made	None
Additional Information	UK health and safety regulations (including REACH) do not require a Safety Data Sheet (SDS) to be provided for mineral wool insulation.

Further Information

TECHNICAL SUPPORT

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

PRODUCTS & TECHNICAL INFORMATION

Visit our website for product information and free technical downloads.



SIDERISE GROUP

Forge Industrial Estate.
Maesteg, UK, CF34 0AY, UK
T: +44 (0) 1656 730833
E: technical@siderise.com

www.siderise.com

