



SAFIRE TCB CAVITY BARRIER

REVISION 1
ISSUE DATE January 2017

Section 1: Identification of the Substance/Mixture and of the Company

1.1 Product identifier:
Safire TCB Cavity Barrier stone wool insulation

1.2 Relevant identified uses of the substance or 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 FIREUS LTD®.

1.3 Company/undertaking identification:

Fireus Ltd.
6 Thetis Road
Lune Industrial Estate
Lancaster
LA1 5QP
tel: 01524 388898
fax: 01524 383724

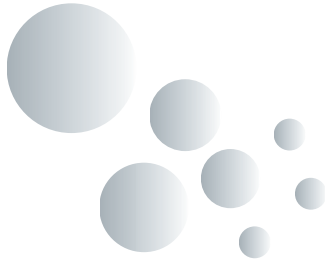
Email of competent person responsible for SDS:
info@fireus.co.uk

Emergency Tel.No. (office hours): 01524 388898

Section 2: Hazards Identification

2.1 Classification of the substance or mixture:
There is no hazard statement associated with this material. SAFIRE TCB CAVITY BARRIER 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 FIREUS® fibres in respect to physical, health and environmental considerations.



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2.3 Other hazards:

Use of high speed cutting tools can generate dust.

If in contact with constant heat $>175^{\circ}\text{C}$, the binder will be slowly broken down.

Further information can be found in Section 8.

Section 3: Composition/Information on Ingredients

3.1 Substances

| 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 |

^{*1} Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO} + \text{MgO} + \text{BaO}$) content greater than 18% by weight and fulfilling one of the Nota Q conditions of Regulation 1272/2008.

^{*2} Not classified H351 "suspected of causing cancer". Stone wool fibres are not classified carcinogenic according to the Nota Q of Regulation 1272/2008. FIREUS® stone wool products do not contain CLP classified substances $>0.1\%$.

^{*3} Silicon oil/emulsion is used in place of mineral oil in certain FIREUS® products such as preformed pipe sections.

3.2 Facing materials

SAFIRE TCB CAVITY BARRIER 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.

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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: Fire-Fighting Measures

5.1 Extinguishing media:

Suitable extinguishing media:
Water, foam, carbon dioxide (CO₂), 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.

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.



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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/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. (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 disposable face mask in accordance with EN 149 FFP1 is recommended.

At high temperatures not usually found in building construction (>175°C),

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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.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

| | |
|---|---|
| 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 (Building Regulations) | Not relevant. Non-combustible (ref. UK and Ireland) |
| 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

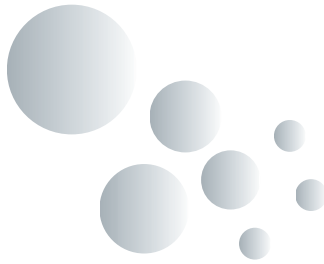


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10.3 Possibility of hazardous reactions:
Not reactive

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 effects ensue.

c) Corrosivity
No corrosivity

d) Sensitisation
No sensitisation

e) Repeated dose toxicity
No repeated dose toxicity

f) Carcinogenicity
None. Owing to its high bio-solubility, the fibre used in SAFIRE TCB CAVITY BARRIER 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

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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

FIREUS® material is recyclable.
FIREUS® insulation is classified as non-hazardous waste. FIREUS® 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 FIREUS® insulation waste is categorised as "waste accepted at landfills for non-hazardous waste" in accordance with EC Decision 2003/33/EC (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
None specified

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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 FIREUS® 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 European Commission Regulation (EU) No. 453/2010(REACH). Although REACH Regulations do not require a safety data sheet to be provided for FIREUS® stone wool insulation, this format is used by FIREUS® to provide standardized health and safety information.

All stone wool insulation products supplied by FIREUS® Limited are made of fibres exonerated from classification as a carcinogen in accordance with Regulation (EC) No. 1272/2008 (ref. Nota Q).

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.

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