

PFC Corofil Open State Barrier COSB 25/44

Safety Data Sheet: SDSCOSB25/44

Revision 2

Revision Date: 09/11/2023

Next Review: 10/11/2025

Key for component product | [INTU] Intumescent strip | [MF] Mineral fibre

Section 1: Identification of substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: PFC Corofil Open State Barrier COSB 25/44

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

Designed for installation within ventilated cavities of external wall construction systems, expands when heated to act as a fire stop.

1.3. Details of the supplier of the safety data sheet

PFC Corofil
Units 3 & 4, King George's Industrial Estate
Davis Road
Chessington
Surrey
KT9 1TT

Tel: +44 (0)208 391 0533 (hours of operation 08:00-17:00 Monday-Friday)

Fax: +44 (0)208 391 2723

Email: tech@pfc-corofil.com

1.4. Emergency telephone number

+44 (0)208 391 0533 (hours of operation 08:00-17:00 Monday-Friday)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with CLP Regulation (EC) No. 1272/2008 [and, accordingly, the GB CLP Regulation] / Classification according to Directive 67/548/EEC or 1999/45/EC:

Not classified.

Most important effects listed in Sections 9 to 12:

[MF]

The mechanical effect of coarse fibres in contact with skin, throat or eyes may cause temporary itching. When first heated above approximately 150°C, release of binder components and binder decomposition products can occur, which in high concentrations may irritate the eyes and respiratory system.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Supplemental hazard information (EU):

[INTU]

The intumescent products are not hazardous in the form in which they are shipped by the manufacturer.

[MF]

Hazard pictograms, signal words, hazard statements and precautionary statements in accordance with CLP Regulation (EC) No. 1272/2008: None.

2.3. Other hazards

[INTU]

There may be low levels of dust as a result of downstream activities such as cutting and machining.

[MF]

Other hazards which do not result in classification: dust can be generated during cutting or fabrication of the product.

Section 3: Composition & information on ingredients

3.1. Substances / Composition of product

[INTU]

The intumescent products are made from varying amounts of low bio-persistence mineral fibres, graphite, organic fibres and binders.

[MF]

Name	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
Mineral oil			0 - 0.5%	Not classified

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 fulfilling one of the Nota Q conditions of Regulation 1272/2008.

PFC Corofil stone wool products may be supplied with facings of aluminium foil, mineral tissue, etc.

3.2. Mixtures

[MF]

Name	EC identification number	REACH registration number	Content (% weight)	Classification, labelling and packaging (EU Regulation (CE) 1272/2008)
Synthetic thermosetting polymer binder			0 - 5%	Not classified
Silicon oil/emulsion ²			0 - 0.5%	Not classified

² Silicon oil and silicon emulsion are used in certain PFC Corofil stone wool products.

Section 4: First aid measures

4.1. Description of first aid measures

General information:	<p>[INTU] The main hazards arise from any downstream activities such as cutting and machining.</p> <p>[MF] If exposure symptoms persist, seek medical attention.</p>
Following inhalation:	<p>[INTU] Avoid breathing dust. Use suitable local exhaust ventilation. If breathing difficulties are experienced whilst machining, remove to fresh air or a ventilated area and seek medical advice.</p> <p>[MF] Remove from exposure. Rinse throat and clear dust from airways. Rest in a position comfortable for breathing.</p>
Following skin contact:	<p>[INTU] If possible, vacuum excessive dust from clothes as well as skin and hair. Wash and clean contaminated skin with soap and water.</p> <p>[MF] Remove and wash contaminated clothing. Rinse skin with water.</p>
Following eye contact:	<p>[INTU] Irrigate abundantly with water, seek medical attention.</p> <p>[MF] Immediately flush eyes thoroughly with water for at least 15 minutes. Seek medical attention.</p>
Following ingestion:	<p>[INTU] If small quantities are ingested seek medical advice.</p> <p>[MF] Rinse mouth immediately and drink plenty of water.</p>
Self-protection for first aider:	<p>[INTU] Avoid breathing dust. Wear suitable personal protective equipment.</p>

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

[INTU]
Dust may cause mechanical irritation such as eye irritation, coughing and sneezing. Repeated exposure to dust may cause chronic lung disease.

[MF]
Symptoms or effects after eye contact: May cause physical irritation upon direct contact.

4.3. Indication of any immediate medical attention and special treatment needed

[INTU]
Notes for doctor: None required.

Special treatment: None required.

[MF]

If adverse reaction or discomfort continues from any of the above exposures, seek medical advice.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: [INTU]
Water, foam, carbon dioxide (CO₂), and dry powder.

[MF]
Water jet spray, foam, sand, carbon dioxide, extinguishing powder.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

[INTU]
None.

Fire hazard: [MF]
None. PFC Corofil stone wool insulation is rated A1 in accordance with EN 13501-1.

Explosion hazard: [MF]
Not explosive.

5.3. Advice for fire-fighters

[INTU]
Wear self-contained breathing apparatus to an appropriate standard with positive pressure. Wear skin protection sufficient to protect from thermal decomposition products.

[MF]
No advice specific to the product. General guidance: use personal protective equipment appropriate to the prevailing conditions.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: [INTU]
Avoid inhaling dust. Use appropriate protective clothing.

[MF]
Use personal protective equipment as detailed in Section 8.

Protective equipment: [INTU]
Where dust is generated wear approved half or full-face air purifying respirator.

Emergency procedures: [INTU]
Avoid inhaling dust.

For emergency responders: [INTU]
Avoid inhaling dust.

[MF]
Use personal protective equipment appropriate to the circumstances.

Personal protective equipment: [INTU]
Protective clothing and equipment should be provided for operators carrying out cutting and machining operations.

6.2. Environmental precautions

[INTU]
Prevent spread of dust.

[MF]
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

[INTU]
Use suitable local exhaust ventilation to remove dust during cutting and machining operations.

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

For cleaning up: [INTU]
Remove dust using an appropriate vacuum cleaner.

[MF]
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

[INTU]
See Section 7 for Handling and Storage and Section 8 for Protective Equipment.

[MF]
Refer to Section 8 (personal protection) and Section 13 (disposal).

Section 7: Handling and storage

7.1. Precautions for safe handling

Protective measures: [INTU]
No special protective measures are normally required.

[MF]
Avoid unnecessary handling of product once unwrapped.

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

Use vacuum cleaner or dampen with water spray prior to sweeping up.

Ensure good ventilation.

Refer to Section 8 (personal protection) and Section 13 (disposal).

Fire prevention: [INTU]
Not flammable.

Aerosol and dust generation prevention: [INTU]
Not applicable.

Environmental precautions:	[INTU] No special precautions are required.
Advice on general occupational hygiene:	[INTU] Wear protective clothing. [MF] (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 areas.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:	[INTU] Maintain dry conditions and avoid direct sunlight and extreme temperatures. [MF] Where possible, store product in original packaging. Keep dry and protect against mechanical damage.
Packaging materials:	[INTU] Cardboard [MF] Products typically packed in polyethylene film, cardboard and/or on wooden pallets.
Incompatible materials:	[MF] None under normal conditions of use.
Requirements for storage rooms and vessels:	[INTU] Dry location.
Hints on storage assembly:	[INTU] Take care not to exceed safe working loads and heights for storage shelves and racks.
Storage class:	[INTU] Not applicable.
Materials to avoid:	[INTU] No special requirements.
Further information on storage conditions:	[INTU] Not applicable.

7.3 Specific end use(s)

[INTU]
See references to dust hazards during cutting and machining, Section 4.

[MF]
Thermal insulation, acoustic insulation and fire protection in building construction applications, in accordance with PFC Corofil recommendations.

Recommendations: [INTU]
Not applicable.

Section 8: Exposure controls/personal protection

8.1. Control parameters

[INTU]

Occupational exposure limits: Nuisance dust: OEL (UK): < 5 mg/m³ 8 hour
TWA tot. inhalable dust < 2 mg/m³ 8 hour respirable dust

[MF]

National limit values: UK workplace exposure limit (WEL) in accordance with HSE guidance EH40:
Long-term exposure limit (8-hr TWA reference period); 5mg/m³ 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

[INTU]

Fit and use appropriate local exhaust ventilation systems for cutting and machining operations.

Maintain a clean workspace and use a vacuum cleaner.

8.2.1. Appropriate engineering controls

[MF]

Ensure adequate ventilation.

8.2.2. Individual protection measures, such as personal protective equipment

[MF]

(a) Eye/face protection:

Wear safety goggles (EN 166) when working above shoulders.

(b) Skin protection:

- (i) Hand protection: Wear protective gloves (EN 388).
- (ii) Other: Cover exposed skin to avoid possible itching.

(c) Respiratory protection:

- (i) Respiratory protection (general): Wear face mask (EN 149, FFP1) in confined spaces and during operations that generate any type of dust above relevant exposure limits.
- (ii) Respiratory protection (high temperature): When first heated at high temperatures not usually found in building applications (above approximately 150°C), 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.

(d) Thermal hazards:

Not relevant.

8.2.3. Environmental exposure controls

[MF]

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

8.3. Additional information

[MF]

The following text and pictograms are printed on product packaging:

The mechanical effect of fibres in contact with skin may cause temporary itching.



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



Rinse in cold water before washing



Clean area using vacuum equipment



Ventilate working area if possible



Waste should be disposed of according to local regulations



Wear goggles when working overhead

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	[INTU] Solid material [MF] Solid
Appearance:	[INTU] Flexible sheet
Colour:	[INTU] Grey [MF] Grey-green
Odour:	[INTU] Not applicable [MF] No distinguishable odour
Odour threshold:	[INTU] Not applicable
pH:	[INTU] Not applicable [MF] Not applicable
Melting point/freezing point:	[INTU] Not applicable [MF] Not relevant
Boiling point or initial boiling point and boiling range:	[INTU] Not applicable [MF] Not applicable
Flash point:	[INTU] Not applicable [MF] Not applicable
Evaporation rate:	[INTU] Not applicable
Flammability (solid, gas):	[INTU] Not applicable [MF] Not capable of catching fire or being set on fire
Upper/lower flammability or explosive limits:	[INTU] Not applicable [MF] Not explosive

Vapour pressure:	[INTU] Not applicable [MF] Not applicable
Vapour density:	[INTU] Not applicable [MF] Not applicable
Density and/or relative density:	[INTU] 630 kg/m ⁻³ [MF] 110 kg/m ³
Solubility:	[INTU] Not soluble in water [MF] Insoluble in water
Partition coefficient n-octanol/water (log value):	[INTU] Not applicable [MF] Not applicable
Auto-ignition temperature:	[INTU] Not applicable [MF] Not applicable
Decomposition temperature:	[INTU] Not applicable [MF] Not applicable
Dynamic viscosity:	[INTU] Not applicable
Kinematic viscosity:	[INTU] Not applicable [MF] Not applicable
Explosive properties:	[INTU] Not applicable
Oxidising properties:	[INTU] Not applicable

9.2. Other information

[MF]
No further, relevant information.

Section 10: Stability and reactivity

10.1. Reactivity

[INTU]
Stable and non-reactive.

[MF]
Not reactive.

10.2 Chemical stability

[INTU]
Stable and inert.

[MF]
Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

[INTU]

No hazardous reactions known.

[MF]

None under normal conditions of use.

10.4. Conditions to avoid

[INTU]

Incompatible with strong acids and alkalis.

[MF]

None under normal conditions of use.

10.5. Incompatible materials

[INTU]

No hazardous reactions known.

[MF]

None under normal conditions of use.

10.6. Hazardous decomposition products

[INTU]

None.

[MF]

When heated above approx. 150°C for the first time, release of binder decomposition products occurs. See Section 8.2.

Section 11: Toxicology information

11.1. Information on toxicological effects

[INTU]

This material does not show any significant toxicological effects or critical hazards.

[MF]

- | | |
|----------------------------------------|-----------------|
| (a) Acute toxicity: | Not classified. |
| (b) Skin corrosion/irritation: | Not classified. |
| (c) Serious eye damage/irritation: | Not classified. |
| (d) Respiratory or skin sensitisation: | Not classified. |
| (e) Germ cell mutagenicity: | Not classified. |
| (f) Carcinogenicity: | Not classified. |
| (g) Reproductive toxicity: | Not classified. |
| (h) STOT-single exposure: | Not classified. |
| (i) STOT-repeated exposure: | Not classified. |
| (j) Aspiration hazard: | Not classified. |

11.2. Additional information

[MF]

The mechanical effect of coarse fibres in contact with skin, throat or eyes may cause temporary itching.

Section 12: Ecological information

12.1. Toxicity

[INTU]

These products are insoluble in water and remain stable over time.

[MF]

None.

12.2. Persistence and degradability

[INTU]

Not established.

[MF]

None.

12.3. Bio-accumulative potential

[INTU]

Not established.

[MF]

None.

12.4. Mobility in soil

[INTU]

No information available.

[MF]

None.

12.5. Results of PBT and vPvB assessment

[INTU]

These products do not contain substances that are considered as either PBT or vPvB.

[MF]

None.

12.6. Other adverse effects

[INTU]

No other additional information available.

[MF]

None.

Section 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging Disposal: [INTU]
Packaging can be cleaned and recycled

Waste Treatment Options: [INTU]
See local regulations.

[MF]

- (a) Place waste in containers suitable for disposal.
- (b) PFC Corofil stone wool insulation is non-hazardous waste - List of Wastes code, 17 06 04.
- (c) Waste should not be disposed of in drains or sewers.
- (d) PFC Corofil stone wool insulation waste is categorised as “waste accepted at landfills for non-hazardous waste” in accordance with landfill regulations.

Section 14: Transport information

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es) / Hazard Labels

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

None.

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code / IMO instruments

Not applicable.

Section 15: Regulatory information

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

[INTU]
No specific regulations.

[MF]
Safety data sheets:

EU and UK regulations do not require a safety data sheet to be provided for PFC Corofil stone wool insulation products. This Safe Use Instruction Sheet is provided to provide health and safety information in a standardised format.

REACH and UK REACH:

No hazardous classifications are associated with PFC Corofil 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.

PFC Corofil 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.

PFC Corofil stone wool insulation batts, slabs, rolls, mats and pipe sections are defined as articles in accordance with REACH Regulation (EC) No. 1907/2006.

CLP and GB CLP:

No hazardous classifications are associated with PFC Corofil 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

[INTU]
Not carried out.

[MF]
Not required.

Section 16: Other information

General information

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

This safety 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.

16.1. Changes made to this document

[INTU]

All sections updated 9th November 2023.

16.2. Abbreviations and Acronyms

[INTU]

None used.

16.3. Key Literature References and Sources of Data

[INTU]

See main sections.

16.4. Classification for Mixtures and Used Evaluation Method According to Regulation (EC) 1207/2008 [CLP]

[INTU]

See Section 2.

16.5. Relevant R-, H- and EUH Phrases (Number and Text)

[INTU]

Not applicable

16.7. Further Information

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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