
MATERIAL SAFETY DATA SHEET

No Classification under EEC Directive 76/548/EEF

Refer Worksafe Australia Classifying Clause 1.14

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Product Names	Insulfrax® Insulfoam	
Other Names	Carbowool Spun Bulk Fibre Blanket Modules Insulfrax Rope Insulfrax Braids Insulfrax S	
UN Number	None allocated	
DG Class	None allocated	
Manufacturer's Product Code	None	
Hazchem Code	Not allocated	
Poisons Schedule	None allocated	
Product Use	Heat Insulation	
Manufacturer/Supplier:	Unifrax Limited Mill Lane, Rainford St. Helens Merseyside 20 WA118L UK	Unifrax Australia Pty. Ltd. 336 Settlement Road Thomastown 3074 Victoria Australia
	Unifrax France 17 Rue Antoine Durafour Lorette 20 42420 France.	Unifrax (Suzhou) Co. Ltd. #59 Shiyang Road The New District Suzhou RP of China Jiangsu 10 215151 China
Contact Information:	See page 9.	

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2. HAZARDS IDENTIFICATION

Flammability

Fire Hazards: Non flammable

Explosive Hazards: Non explosive

2. Hazards Identification cont'd:

Health Hazards: Temporary mild irritation to eyes, skin, respiratory system
Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	Name	CAS	Proportion
	Calcium Silicate	65997-17-3	100%
	Magnesia		

4. FIRST AID MEASURES

Ingestion: Drink plenty of water..

Eye: Flush immediately with large amount of water.

Skin: Rinse affected areas with water and soap. Do not use detergent. Do not rub or scratch exposed skin.

Inhalation: Remove exposed person/s from source of exposure to fresh air. Blow nose to evacuate fibres.

ADVICE TO DOCTOR: Acute irritation and/or inflammation are due to mechanical action.

5. FIRE FIGHTING MEASURES.

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Fire Explosion Hazard: Not Flammable and not explosive.

**Hazardous Reactions/
Decomposition Products** Refer to SAFE HANDLING INFORMATION

Hazchem Code: None Allocated.

6. ACCIDENTAL RELEASE MEASURES

**Spills or Release
To the Environment** Do not flush into drain. Prevent entry into waterways.
Do not allow to be windblown.
Use vacuum cleaning equipment fitted with HEPA filters to collect debris. Use dust extraction equipment. Avoid procedures that will generate airborne fibres.

7. HANDLING & STORAGE

Storage Precautions: Keep packaged in original packaging when not in use.

Safe Handling: Respirators, gloves & safety eye wear are recommended.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits:	Name	CAS No.	Exposure
	Calcium Silicate Magnesia.	65997-17-3	TWA .5 f/ml **

** National Occupational and Safety Commission - National Code of Practice for the safe use of Synthetic Fibers.

This Product was invented in 1992, no epidemiological or toxicological studies are available. Studies based on

8. Exposure Controls & Personal Protection cont'd:

chemically similar fibre using lifetime nose only inhalation, showed no fibrosis or significant increase in lung tumours

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in exposed animals. In addition, lifetime studies with fibreglass show no irreversible effects.

As available, animal study results with Insulfrax fibre will be presented.

Personal Protection:

Respirators are recommended. All respirators used shall comply with the provisions of AS1715 and 1716. Gloves are recommended to avoid skin irritation. Safety eye wear is also recommended, particularly for above head work.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Off white - bluish fibre
Boiling/Melting Point	>1260°C
Vapour Pressure	Not determinable
Specific Gravity	2.6
Flash Point	Not determinable
Flamm. Limit	Not determinable
Solubility in Water(g/L)	< 0.1

10. STABILITY & REACTIVITY

Stability: Stable under normal conditions of use.

Hazardous Reactions Refer to SAFE HANDLING INFORMATION
Decomposition Products

11. TOXICOLOGICAL INFORMATION

Irritant Properties

When tested using approved methods (Directive 67/548/EC, Annex V, Method B4), fibres contained in this material gave negative results. All man-made mineral fibres, like

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some natural fibres, can produce a mild irritation resulting in itching or rarely, in some sensitive individuals, in slight reddening. Unlike other irritant reactions this is not the result of allergy or chemical skin damage but is caused by a temporary mechanical effect.

Other Animal Studies

These materials have been designed to allow rapid clearance from tissue. And this low biopersistence has been confirmed in many studies using EU protocol ECB/TM/27(rev 7) and the German method specified in TRGS 905 (1999). When inhaled, even at very high doses, they do not accumulate to any level capable of producing a serious adverse biological effect. In lifetime chronic studies there was no exposure-related effect more than would be seen with any "inert" dust. Subchronic studies at the highest doses achievable produced, at worst, a transient mild inflammatory response. Fibres with the same ability to persist in tissue do not produce tumours when injected into the peritoneal cavity of rats.

12. ECOLOGICAL INFORMATION

These products are inert materials, which remain stable overtime.
No adverse effects of this material on the environment are anticipated.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Waste shall be placed in containers, plastic bags or other methods which will prevent Fiber and/or dust emission and disposed of in accordance with the local waste disposal authority requirements. There may be specific regulations at the Local, State or Federal level that pertain to this material.

14. TRANSPORT INFORMATION

No special transport requirements are necessary.

15. REGULATORY INFORMATION

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Risk Statement: Irritation or soreness in throat and nose congestion may occur in extreme exposures.

Safety Statement: S22 Do not breathe dust. S52 Avoid contact with eyes. S38 In insufficient ventilation, wear suitable respiratory equipment. S40 To clean floor and all objects contaminated by this Material, use AS approved HEPA fitted vacuum cleaner. S36/37/39 Wear suitable protective clothing, gloves and eye/ Face protection.

Hazard Category: Irritant.

Poisons Schedule: Not scheduled.

16. OTHER INFORMATION

USEFUL REFERENCES (the directives which are cited must be considered in their amended version)

Council Directive 89/391/EEC dated 12 June 1989 "on the introduction of measures to encourage improvements in the safety and health of workers at work" (*OJEC L 183 of 29 June 1989, p.1*)

Council Directive 67/548/EEC on the "approximation of the laws, regulations and administrative provision relating to the classification, packaging and labelling of dangerous substances as modified and adapted to the technical progress" (*OJEC L 196 of 16 August 1967, p.1 and its modifications and adaptations to technical progress*).

16. Other Information cont'd:

Commission Directive 97/69/EC of 5 December 1997 "adapting to technical progress for the 23rd time Council Directive 67/548/EEC ,(*OJEC L 343 Official Journal of the European Communities, 13/12/97, p.19*).

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Council Directive 98/24/EC of 7th April 1998 “on the protection of the health and safety of workers from risks related to chemical agents at work” (OJEC L131 of 5th May 1998, P.11)

TRGS 521 : Faserstaube 5/2000 – Germany

DEFINITIONS

ADR – Transport by road, council directive 94/55/EC

IMDG – Regulations relating to transport by sea

RID – Transport by rail, Council Directive 96/49/EC

ICAO/IATA - Regulations relating to transport by air

Precautionary measures to be taken after service and upon removal

As produced, *Insulfrax* fibres are vitreous (glassy) materials which, upon continued exposure to elevated temperatures (above 900°C) might de-vitrify. The occurrence and extent of crystalline phase formation is dependent on the duration and temperature of exposure, fibre chemistry and/or the presence of fluxing agents. The presence of crystalline phases can be confirmed only through laboratory analysis of the “hot-face” fibre. Simulated after-use (up to 8 weeks at 1000°C) *Insulfrax* fibres were not toxic to macrophage-like cells.

High concentrations of fibres and other dusts may be generated when after-service products are mechanically disturbed during operations such as wrecking. These dusts may contain crystalline silica, which some authorities have classified as a carcinogen. Therefore ECFIA recommends:

- control measures are taken to reduce dust emissions.

16. Other Information cont'd:

- all personnel directly involved wear an appropriate respirator to minimise exposure and comply with local regulatory limits.

These procedures will ensure compliance with local regulatory exposure standards for free crystalline silica. And because de-vitrified fibres containing silica mixed with

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amorphous and other crystalline phases are far less biologically active than free crystalline silica dusts, these measures will provide a high degree of protection.

CARE PROGRAMME

The European Ceramic Fibres Industry Association (ECFIA) has undertaken an extensive industrial hygiene programme for High Temperature Insulation Wool (HTIW). The objectives are twofold:

- to monitor workplace dust concentrations at both manufacturers' and customers' premises,
- to document manufacturing and use of HTIW products from an industrial hygiene perspective in order to establish appropriate recommendations to reduce exposures.

If you wish to participate in the CARE programme, contact ECFIA or your supplier.

NOTE

The directives and subsequent regulations detailed in this Material Safety Data Sheet are only applicable to the European Union (EU) Countries and not to countries outside of the EU.

Websites

The European Ceramic Fibres Industry Association (ECFIA): 3, Rue du Colonel Moll, 75017 Paris

Tel. +33 (0)1 44 05 54 84 - Fax +33 (0)1 44 05 54 94- www.ecfia.org

Or to Deutsche Keramikfaser-Gesellschaft e.V. web site: www.dkfg.de

Contact: During Business Hours Ph: +61 3 9463 7100

Emergency / After Hours Contact: Alan Smith Ph: 0409 288 916

References: Replaces MSDS dated 01 August 2007.

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.....End of Report.....

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