
MATERIAL SAFETY DATA SHEET

Classified as Hazardous according to criteria of Worksafe Australia

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Brand Name: FIBERFRAX®

Ship. Name (CSN): None Allocated

Product Names: Blanket Adhesive

Other Names: Fiber Adhesive

UN Number: None Allocated
DG Class: None Allocated

Manufacturer's Product Code: None

Hazchem Code: None Allocated

Poisons Schedule: Not Scheduled

Product Use: Adhesive for ceramic fibre blanket.

Manufacturer/Supplier: Unifrax Aust Pty. Ltd.
(Manufactured for Unifrax Australia by other producers of similar products).

Contact: See details on Page 8

2. HAZARDS IDENTIFICATION

Flammability: Non flammable

Fire Hazards: Non flammable

Explosive Hazards: Non explosive

Health Hazards: Emits toxic fumes if involved with fire.

Ingestion: May irritate the gastrointestinal tract

Eye: May cause chemical burns

Skin: May cause chemical burns

Inhalation: Non irritation to upper respiratory tract.

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2. Health Hazards cont'd:

Chronic:

Principal route of exposure is usually skin contact. The paste is an alkaline material, which on skin contact may cause redness, rash, swelling, blisters or caustic burns.

Eye contact with the paste may result in redness, tearing, blurred vision, corneal burns and possibly severe or permanent injury.

Ingestion may cause corrosion of the mucous membranes of the oral and alimentary canal resulting in nausea, vomiting, diarrhea, headache, weakness along with burning sensations in the mouth, oesophagus and stomach. The raw material may be changed chemically after firing into forms of silica which may cause lung fibrosis.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	Name	CAS	Proportion
	Sodium Silicate	112926-00-8	60%
	Clay	1332-58-7	10-30%

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Drink plenty of water. Call doctor or poisons information centre.

Eye: Flush immediately with large amount of water for at least 15 minutes. Eyelids should be held open away from the eyeball to ensure thorough rinsing. Do not remove contact lenses. Seek Medical Advice.

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4. First Aid Measures cont'd:

Skin: Wash affected area with water for 15 minutes. Seek medical attention if irritation continues.

Inhalation: If overcome by fumes, remove to fresh air, keep warm, lay patient down. Ensure airways are clear. Seek medical advice.

ADVICE TO DOCTOR: Treat symptomatically as for strong alkaline material. Alkalinity is high. Concentrated solutions may cause skin burns. Sodium metasilicate which forms part of the product, is reported to have caused severe dermatitis reactions (NIOSH). Forms insoluble silica gels if acid neutralization is applied to skin.

5. FIRE FIGHTING MEASURES.

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** Place in plastic containers and dispose in accordance with local government provisions. Prevent escape to waterways or drains.

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7. HANDLING & STORAGE

Handling: Wear safety glasses, footwear and gloves.

Storage Precautions: Store in original container only. Avoid contact with acids and metals.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits:	Name	CAS	Exposure
	Sodium Silicate	112926-00-8	10mg/m ³
	Clay	1332-58-7	10mg/m ³

Personal Protection: Wear protective clothing. Use impervious gloves. Protect skin from exposure to product. Barrier cream is recommended.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Off-White Paste
Melting Point	1000 °C
Boiling Point	1000 °C
Vapour Pressure	Not known
Specific Gravity	1.5
Flash Point	None
Flamm. Limit LEL	None
Solubility in Water (g/l)	None
pH Value	9.5

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10. STABILITY & REACTIVITY

Stability: Stable under normal conditions of use.

Hazardous Reactions Refer to SAFE HANDLING INFORMATION
Decomposition Products

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal:

14. TRANSPORT INFORMATION

No special transport requirements are necessary.

UN Number	None Allocated
Shipping Name	None Allocated
DG Class	None Allocated
Packaging Group	None Allocated
Hazchem Code	None Allocated
Poisons Schedule	Not Scheduled

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15. REGULATORY INFORMATION

Risk Statement:	R40 (3) Possible risk of irreversible effects. R36/37/38 Irritating to eyes, respiratory system and skin.
Safety Statement:	S52 Avoid contact with eyes. S38 In insufficient ventilation, wear suitable respiratory equipment. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
Hazard Category:	Harmful, irritant.
Poisons Schedule:	Not scheduled.

16. OTHER INFORMATION

RCF DEVITRIFICATION

As produced, all RCG fibers are vitreous (glassy) materials which do not contain crystalline silica. Continued exposure to elevated temperatures may cause these fibers to devitrify (become crystalline). The first crystalline formation (mullite) begins to occur at approximately 985° C (1805° F). Crystalline phase silica may begin to form at temperatures of approximately 1200° C (2192° F). The occurrence and extent of crystalline phase formation is dependent on the duration and temperature of exposure, fiber chemistry and/or the presence of fluxing agents. The presence of crystalline phases can be confirmed only through laboratory analysis of the "hot face" fiber.

IARC's evaluation of crystalline silica states "Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)" and additionally notes "carcinogenicity in humans was not detected in all industrial circumstances studied" (IARC Monograph Vol. 68, 1997). NTP lists all polymorphs of crystalline silica amongst substances which may "reasonably be anticipated to be carcinogens".

IARC and NTP did not evaluate after-service RCF, which may contain various crystalline phases. However, an analysis of after-service RCF samples obtained pursuant to an exposure monitoring agreement with the USEPA, found that in the furnace conditions sampled, most did not contain

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detectable levels of crystalline silica. Other relevant RCF studies found that (1) simulated after-service RCF showed little, or no, activity where exposure was by inhalation or by intraperitoneal injection; and (2) after-service RCF was not cytotoxic to macrophage-like cells at concentrations up to 320 g/cm² - by comparison, pure quartz or cristobalite were significantly active at much lower levels (circa 20 g/cm²).

CONTACT DETAILS:

Contact:	During Business Hours	Ph: +61 3 9463 0000
Customer Service Toll Free:		Ph: 1300 797 888
Emergency / After Hours Contact:		Alan Smith
		Ph: 0409 288 916

References: Replaces MSDS dated 27 March 2007.

NOTICE: *The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorisation given or implied to practise any patented invention without licence. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.*

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