
MATERIAL SAFETY DATA SHEET

Classified as Non Hazardous according to criteria of Australian Safety and Compensation Council ASCC (formerly NOHSC), Approved Criteria for Classifying Hazardous Substances (NOHSC: 1008) 3rd Edition. Risk & Safety Phrases are not applicable to this product.

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Brand Name: Fiberfrax®

Ship. Name (CSN): None Allocated

Product Names: Rigidiser

Other Names: Hardener
Foamfrax Binder A

UN Number: None Allocated
DG Class None Allocated
Packaging Group None Allocated
Hazchem Code None Allocated
Poisons Schedule Not Scheduled
Product Use Refractory Binder.

Supplier: Unifrax Australia Pty. Ltd.

Contact: See Page 7

2. HAZARDS IDENTIFICATION

Flammability

Fire Hazards: Non flammable

Explosive Hazards: Non explosive

Health Hazards: Irritating to eyes, skin, respiratory system and disturbances to gastro intestines.

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Amorphous silica	7631-86-9	14.5 - 50%
	Water	7732-18-5	50 - 85%
	Titrateable Alkali (as Na ₂ O)		0.10 - 0.58%

4. FIRST AID MEASURES

Ingestion	If swallowed, give 2 glasses of water immediately and induce vomiting. Seek medical advice.
Eye	Hold eye open and irrigate continuously for at least 15 minutes. Seek medical advice.
Skin	Wash affected areas with copious quantities of water.
Inhalation	If large amounts are inhaled remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Lay person down, keep warm and rested. Ensure passageway is clear, seek medical advice.
First Aid Facilities	No special requirements.
Advice to Doctor	Treat symptomatically.

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.

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6. ACCIDENTAL RELEASE MEASURES

Spills: If spillage occurs in a confined space ensure adequate ventilation.
Contain all spills within a bund. Contain / prevent contamination of drains and waterways. Use sand, earth or Vermiculite to contain spillage. Treatment, storage, transportation and disposal of waste must be in accordance with applicable Federal, State and local regulatory requirements.

7. HANDLING & STORAGE

SAFE HANDLING INFORMATION

Handling: Wear rubber or PVC gloves conforming to AS2161.
Chemical goggles conforming to AS1336 and AS1337.

Storage Keep containers tightly closed when not in use. Store at temperatures above 2⁰ C to avoid irreversible precipitation of silica.
Do NOT store with food, drink or tobacco in areas where they may become contaminated with this material.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits None established for the formulated substance.
Dust resulting from dried product spills or deposits may be considered to be amorphous silica.

Amorphous Silica:
Worksafe TWA : 2mg/m³ respirable dust
Worksafe STEL : none established
TLV (ACGIH) : 10 mg/m³ total dust

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8. Exposure Controls & Personal Protection cont'd:

Engineering Controls: Ensure adequate ventilation to conform with exposure standard.

Personal Protection: Wearing of the following personal protective equipment is recommended.
Rubber or PVC gloves conforming to AS2161.
Chemical goggles conforming to AS1336 and AS1337.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Blue or Cloudy liquid
Boiling/Melting Point	100 °C at 101.3 kPa
Vapour Pressure	24 mm Hg at 25 deg C
Specific Gravity	1.21 – 1.40
Ph	8.4 – 10.4
Flash Point / Limit	None
Corrosiveness	
Solubility in Water(g/L)	Completely soluble.

10. STABILITY & REACTIVITY

Stability: Stable under normal conditions of use.

Hazardous Reactions Refer to SAFE HANDLING INFORMATION
Decomposition Products

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11. TOXICOLOGICAL INFORMATION

HUMAN DATA

Irritant Properties: The alkalinity of this product could cause a chemical irritation to the skin and eyes if prolonged and repeated contact.

Respiratory Effects: None expected in the normal use of the product, when the product has dried and during removal situations there is the potential for dust generation, which can affect pre-existing respiratory conditions. The amorphous silica used to produce this product is of low acute toxicity, it is not classed as carcinogenic or genotoxic

12. ECOLOGICAL INFORMATION

This material must not be disposed into drains or water causes.

13. DISPOSAL CONSIDERATIONS

Disposal of waste must be in accordance with applicable Federal, State and local regulatory requirements.

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: Irritating to eyes, respiratory system and skin.

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: 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".

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FIBERFRAX® RIGIDISER

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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.*

... End Of Report ...

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