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## MATERIAL SAFETY DATA SHEET

Classified as Hazardous according to criteria of Worksafe Australia

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### 1. IDENTIFICATION OF MATERIAL & SUPPLIER

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**Product Name:** KUB cement

**Other Names** CBS, CBSW, Refractory cement.

**UN Number:** None allocated  
**DG Classification:** None allocated  
**Hazchem Code:** None allocated  
**Poisons Schedule No:** None allocated  
**Product Use:** Refractory cement

**Manufacturer/Supplier:** Unifrax Limited  
Mill Lane, Rainford  
St. Helens  
Merseyside 20 WA118L  
**UK**

Unifrax Australia Pty. Ltd.  
336 Settlement Road  
Thomastown 3074  
Victoria  
**Australia**

**Contact:** See Page 6.

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### 2. HAZARDS IDENTIFICATION

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**Flammability**

**Fire Hazards:** Non flammable

**Explosive Hazards:** Non explosive

**Health Hazards:** Possible irritation to eyes, skin, respiratory system and disturbances to gastro intestines.

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### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

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<b>Chemical Name</b>	<b>CAS Number</b>	<b>Proportion</b>
Alumina (Al <sub>2</sub> O <sub>3</sub> )	1344-28-1	10-<30%
Calcium Aluminate Cement	65997-16-2	10-30%
Fumed Silica	7631-86-9	10-30%
Calcium Silicate	13983-17-0	10-30%

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### 3. Composition & Information on Ingredients cont'd:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Alumino silicate	1302-78-9	<10%
Total other non hazardous (each <1%)		0-5%

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### 4. FIRST AID MEASURES

<b>Ingestion</b>	Drink water. <b>Do Not</b> induce vomiting.
<b>Eye</b>	Flush continuously with water for 15 minutes, Eyelids to be held open, do not rub eyes.
<b>Skin</b>	If skin becomes irritated remove clothing wash areas of contact with soap and water. Using a skin cream or lotion may be helpful in reducing irritation.
<b>Inhalation</b>	Remove exposed person to fresh air.
<b>Advice to Doctor</b>	Treat symptomatically for irritant effects of liquid or dust.

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### 5. FIRE FIGHTING MEASURES.

<b>Fire Explosion Hazard:</b>	Not Flammable and not explosive.
<b>Hazardous Reactions/ Decomposition Products</b>	Refer to SAFE HANDLING INFORMATION
<b>Hazchem Code:</b>	None Allocated.

This material is non-combustible, use extinguishing media appropriate to surrounding fire.

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### 6. ACCIDENTAL RELEASE MEASURES

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**Spills and Leaks:**

Pick up large quantities with a shovel and place in containers. Where possible, use a vacuum cleaner to clean up smaller spills.

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### 7. HANDLING & STORAGE

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**Handling:**

Wear rubber or PVC gloves and eye protection when handling product.

**Storage:**

Store in a cool dry place.

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### 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

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**Exposure Standards:**

<u>Name</u>	<u>TWA (NOHSC 1995, 1996)</u>
Clay	10 mg/m <sup>3</sup> inspirable dust
Colloidal amorphous silica	10 mg/m <sup>3</sup> inspirable dust
Ethylene glycol (vapour)	60 mg/m <sup>3</sup>

Compliance with the dust exposure standard for the dried product should prevent impairment of respiratory function even over many years of exposure (NOHSC Exposure Standards, 14.26-14.29, 1995)

**Chronic Health Effects:**

Compliance with the exposure standard should prevent impairment of respiratory function even over many years of exposure (refer NOHSC Exposure Standards, 14.26-14.29, 1995)

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### 8. Exposure Controls & Personal Protection cont'd:

**Engineering Controls:** Where possible use local exhaust ventilation for handling dried product.

### PERSONAL PROTECTION

**Respiratory Protection:** For the dried product, a half-face (P1 or P2) respirator should be worn during work in enclosed or poorly ventilated spaces, or where evidence suggests that dust levels may exceed the exposure standard. All respiratory devices should be tested for compliance with AS/NZS 1715 & AS/NZS 1716.

**Eye Protection:** Safety glasses, goggles or face-shield as appropriate.

**Glove Type:** Rubber or PVA.

**Clothing:** Overalls or similar protective apparel.

**Footwear:** Safety footwear as appropriate.

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### 9. PHYSICAL & CHEMICAL PROPERTIES

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**Appearance:** Aggregate and powder mix  
**Melting Point:** >1800°C  
**Boiling Point:** N/A  
**Vapour Pressure:** N/A  
**Specific Gravity:** ~2.5  
**Flash Point:** N/A  
**Flammability Limits:** N/A  
**Solubility in Water:** Insoluble

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### 10. STABILITY & REACTIVITY

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**Stability:** Stable under normal conditions of use.

**Hazardous Reactions** Not combustible.  
**Decomposition Products**

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### 11. TOXICOLOGICAL INFORMATION

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Not available

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### 12. ECOLOGICAL INFORMATION

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Not available

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### 13. DISPOSAL CONSIDERATIONS

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**Waste Disposal:** Waste should be placed in containers, plastic bags or other methods which prevent liquid or dust emission, and disposed of in accordance with the local waste disposal authority requirements.

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### 14. TRANSPORT INFORMATION

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No special transport requirements are necessary.

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

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### 15. REGULATORY INFORMATION

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<b>Risk Statement:</b>	R40 (3) Possible risk of irreversible effects. R36/37/38 Irritating to eyes, respiratory system and skin.
<b>Safety Statement:</b>	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, eye/face protection and footwear.
<b>Hazard Category:</b>	Harmful, irritant.
<b>Poisons Schedule:</b>	Not scheduled.

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### 16. OTHER INFORMATION

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<b>Contact:</b>	During Business Hours	Ph: +61 3 9463 7100
<b>Emergency / After Hours Contact:</b>		Peter Willoughby
		Ph: 0409 288 917

**References:** Replaces MSDS dated 19 March 2012

Unifrax Australia Pty. Ltd.

336 Settlement Road  
Thomastown, VIC 3074

ACN 093 625 757

Ph: (03) 9463 7100 Fax: (03) 9464 5472



**KUB CEMENT**

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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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