



A division of Firth Industries

# SAFETY DATA SHEET

## SUPERSET MORTAR

100 Bollard Road  
Tuakau  
New Zealand  
Telephone 0800 374 566

Issue date 27 August 2010

### Section 1: IDENTIFICATION OF SUBSTANCE AND SUPPLIER

**Product name:** SUPERSET MORTAR

**CAS number:** Unassigned

**Recommended uses:** For applications where early strength and quick turn around is required, including repair of highways and bridges, airfield runways, parking decks and ramps, public footpaths and steps, floors and joints, road kerbs, drains, leaks, cracks, swimming pools.

**Company Details:** Dricon, Firth Industries.  
**Address:** 100 Bollard Rd., Tuakau.  
**Telephone Number:** 0800 – 374 566  
**Hours:** 8.00 am – 5.00 pm Monday to Friday

**Emergency Telephone Number:**  
(07) 870 2024 8.00am to 5.00pm Monday to Friday except public holidays.  
(0800) 764-766 24 hours.

National Poisons Centre,  
Department of Preventative and Social Medicine,  
University of Otago,  
P O Box 913,  
Dunedin,  
New Zealand.

**Date of Revision:** 27 August 2010

### Section 2: HAZARDS IDENTIFICATION

**Hazard Classification:** Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001

**HSNO Approval Number:** Classified under the group standard:  
Construction Products (toxic [6.7A]) Group Standard 2006

**HSNO Approval Number:** HSR002545

**Hazard classification:**

- 6.1 E Acutely toxic
- 6.3A Skin irritant
- 6.5A Respiratory sensitiser
- 6.5B Contact sensitiser
- 6.7A Carcinogenic
- 6.9B Target organ toxicant
- 8.3A Eye corrosive



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**DANGER :**

May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause cancer  
Causes serious eye damage

**WARNING:**

If medical advice is needed have product container or label at hand  
Keep out of reach of children  
May be harmful if inhaled and cause respiratory irritation  
Causes skin irritation including allergic skin irritations

### **Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**Ingredients:**

Ingredient	Concentration
Sand	40 - 70%
Cement	30 - 50%
Fast setting additive	5 - 20%
Admixtures	0 - 2%

Sand

Ingredients	CAS number	Content (%w/w)
Silica – crystalline (quartz)	14808-60-7	<50%
Naturally occurring metal oxides	Not known	<5%
Innocuous silicates	Not known	Balance

Cement

Ingredient	CAS numbers	Concentration % by weight
Tri calcium silicate	12168 – 85 - 3	42 – 70
Di calcium silicate	1003 – 77- 2	15 – 30
Tri calcium aluminate	12042 – 78- 3	1 – 13
Tetra calcium aluminoferrite	12068 – 35 – 8	1 – 15
Magnesium oxide	1309 – 48 – 4	0.1 – 2.0
Calcium oxide	1305 – 78 – 8	0 – 3
Sodium salts		0.1 – 0.7
Potassium salts		0.1 – 1.0
Gypsum	13397 – 24 – 5	4 – 7
Ground granulated blast furnace slag		0 - 65



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### Fast setting additive

Ingredients	CAS number	Content (%w/w)
Calcium aluminate	11104 – 48 - 6	40 – 60%
Calcium sulphate	7778 – 18 - 9	40 – 60%

### **Section 4: FIRST AID MEASURES**

<b>Swallowed:</b>	Rinse mouth. No NOT induce vomiting. Call the doctor / physician or poison centre
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing for at least 15 minutes. Keep patient calm. Immediately call the doctor or poison centre
<b>Skin:</b>	Remove contaminated clothing and wash skin with plenty of soap and water. Seek medical attention if irritation or rash develops. If concerned, seek medical advice. Launder contaminated clothing before reuse
<b>Inhaled:</b>	Remove to fresh air. Do not induce vomiting If breathing is difficult keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, or feeling unwell, call the poison centre or doctor
<b>Required instructions:</b>	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or contact a doctor
<b>Workplace facilities:</b>	Eye wash and safety shower facilities are recommended

### **Section 5: FIRE FIGHTING MEASURES**

<b>Type of hazard:</b>	Not classed as flammable
<b>Fire hazard properties:</b>	Non flammable. No fire or explosion hazard exists
<b>Regulatory requirements:</b>	Not applicable
<b>Extinguishing media and methods:</b>	Not applicable
<b>Hazchem code for fire:</b>	Not applicable
<b>Recommended protective clothing:</b>	Not applicable

### **Section 6: ACCIDENTAL RELEASE MEASURES**



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**Emergency procedures:** If spilt (bulk) contact emergency services if applicable.  
Wear dust proof goggles, PVC / rubber gloves, a Class P1 (Particulate) respirator (where an inhalation risk exists), coveralls and rubber boots.  
Prevent spill from entering drains or waterways.  
Collect and place in sealable containers for disposal.  
Avoid generating dust

### **Section 7: HANDLING AND STORAGE**

**Precautions for safe handling:**

Read label and safety data sheet before use.  
Obtain special instructions.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust.  
Wear protective gloves, eye and face protection.  
Use only in a well ventilated area.

**Regulatory requirements:**

Approved handlers and tracking not required.  
Corrosive signage where quantities greater than 1 000kg are present. Emergency response plans for toxic response are required where quantities greater than 1 000kg are present.  
Corrosive emergency response plans are required when holding more than 10 000kg.

**Handling practices:**

Avoid contact with eyes and wear eye protection.  
Keep containers adequately sealed during material transfer, transport, or when not in use.  
Use safe work practices to avoid eye or skin contact and inhalation.  
Observe good personal hygiene, including washing hands before eating.  
Prohibit eating, drinking and smoking in contaminated areas (e.g. if container is damaged).  
Wash exposed skin thoroughly after handling

**Conditions for safe storage:**

Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

**Store site requirements:**

Store in a cool, dry, well-ventilated areas, away from moisture, oxidising agents (e.g. hydrogen fluoride, phosphorus oxide), acids, ethanol, interhalogens (e.g. chlorine trifluoride) and foodstuffs



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**Packaging:** Ensure packages are labelled, protected from physical damage and sealed when not in use.

### **Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

**Workplace exposure standards:**

Lime (1305-78-8) TWA 2 mg/m<sup>3</sup>  
Silica, crystalline – quartz (14808-60-7) TWA 10 mg/m<sup>3</sup>  
Aluminium oxide (1344-28-1) TWA 10 mg/m<sup>3</sup> (note: the value is for inspirable dust containing no asbestos and less than 1% free silica)  
Ferric oxide (1309-37-1) TWA 5 mg/m<sup>3</sup>  
Sodium oxide (1313-59-3) data not available  
Hexavalent chromium (Cr(VI)) (18540-29-9) TWA 0.05 mg/m<sup>3</sup>

**Application in the workplace:**

Use with adequate natural ventilation. Where dust inhalation hazard exists, mechanical extraction ventilation is recommended

**Exposure standards outside the workplace:**

No TEEL or EEL is set for this substance at this time

**Engineering controls:**

Where possible ventilation should be used (with suitable dust trap or filter) to maintain the environment below the workplace exposure standard

### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Loose material consisting of sand and cement  
**pH:** 11 – 13  
**Melting point:** > 1 200 °C  
**Vapour pressure:** Not known  
**Solubility:** < 10g/L

### **Section 10: STABILITY AND REACTIVITY**

**Stability of the product:** Stable  
**Conditions to avoid:** Water contact may increase the product temperature 2-3 °C  
**Material to avoid:** Wet cement dust is alkaline. It is incompatible with oxidizing agents (e.g. hypochlorites), ethanol, acids (e.g. hydrofluoric acid) and interhalogens (e.g. chlorine trifluoride)

**Hazardous decomposition products:**

May evolve toxic gases if heated to decomposition

### **Section 11: TOXICOLOGICAL INFORMATION**



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### Summary

Corrosive.  
Avoid eye and skin contact or dust inhalation.  
This product has the potential to cause acute and chronic health effects with prolonged exposure  
This product contains crystalline silica.  
Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious harm disease which can lead to fatal lung disease.

### Eye

Corrosive.  
Severe irritant upon contact with powder / dust.  
Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage

### Inhalation

Corrosive.  
Over exposure may result in severe mucous membrane irritation and bronchitis.  
Hexavalent chromium is reported to cause respiratory sensitization, however due to the trace amounts present a hazard is not anticipated under normal conditions of use.

### Ingestion

Corrosive.  
Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to product form, ingestion is not considered a likely exposure route

### Skin

Corrosive. Prolonged and repeated contact with powder or wetted form may result in skin rash, dermatitis sensitisation.

### TEL

No TEL is set for this substance at this time.

## Section 12: ENVIRONMENTAL INFORMATION

### Aquatic

Not classified as an aquatic ecotoxic under the Hazardous Substances and New Organisms Act

### Soil

Not classified as an soil ecotoxic under the Hazardous Substances and New Organisms Act

### Terrestrial vertebrates

Not classified as toxic to terrestrial vertebrates under the Hazardous Substances and New Organisms Act

### Terrestrial invertebrates

Not classified as toxic to terrestrial invertebrates under the Hazardous Substances and New Organisms Act



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EEL No EEL is set for this substance at this time

### **Section 13: DISPOSAL CONSIDERATIONS**

#### **Disposal information**

Reuse or recycle where possible. Alternatively, ensure product is covered with moist soil to prevent dust generation and dispose of to an approved landfill site

### **Section 14: TRANSPORT INFORMATION**

Relevant information: None

Other requirements : Not regulated for transport purposes

### **Section 15: REGULATORY INFORMATION**

Regulatory status: ERMA Approval code : HSR002545 - Group standard  
For Construction Products (toxic [6.7A]) Group  
Standard 2006. For full listing of controls see  
[www.ermanz.govt.nz](http://www.ermanz.govt.nz)

### **Section 16: OTHER INFORMATION**

Relevant information mg/m<sup>3</sup> – milligrams per cubic metre  
ppm – parts per million  
TWA – time weighted average  
pH – relates to hydrogen ion concentration – this  
value relates to a scale of 0 – 14 where 0 is highly  
acidic and 14 is highly alkaline

Additional information None

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