



# SAFETY DATA SHEET

## WHITE CEMENT

100 Bollard Road  
Tuakau  
New Zealand  
Telephone 0800 374 566

Issue date 9 August 10

### Section 1: IDENTIFICATION OF SUBSTANCE AND SUPPLIER

**Product name:** White cement

**CAS number:** Unassigned

**Recommended uses:** Used in commercial, industrial and residential construction including structural concrete, mortars, renders, grouts and cement based products, and can also be used as a general binder for applications such as soil stabilisation

**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:** 9<sup>th</sup> 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



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6.9B Target organ toxicant  
8.3A Eye corrosive



### 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 and read label before use.  
May be harmful if inhaled and cause respiratory irritation  
Causes skin irritation including allergic skin irritations

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

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

## Section 4: FIRST AID MEASURES

### Necessary first aid measures:

If medical advice is needed, have the product container or label at hand.

### Swallowed:

Rinse mouth. No NOT induce vomiting.  
Call the doctor / physician or poison centre

### Eye contact:

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.



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	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**

<b>Emergency procedures:</b>	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
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### **Section 7: HANDLING AND STORAGE**

<b>Precautions for safe handling:</b>	Obtain special instructions and read Safety Data Sheet before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust.
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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 2 000kg are present. Emergency response plans for toxic response are required where quantities greater than 2 000kg are present. Corrosive emergency response plans are required when holding more than 20 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

### **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



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**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

**Summary** Corrosive. Avoid eye and skin contact or dust inhalation. This product has the potential to cause acute and chronic health effects with over 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

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**For 24 hour poison advice call 0800 POISON (0800 764 766)**



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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

**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**



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**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  
CAS # - chemical abstract service number – used to uniquely identify chemical compounds  
IARC – International Agency for Research on Cancer

**Additional information** None

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