

WHITE CEMENT

100 Bollard Road, Tuakau, New Zealand
Telephone 0800 374 266

ISSUE DATE May 2016

Section 1: IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Product name: WHITE CEMENT

Other names: None

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 374 266
Hours: 8.00 am – 5.00 pm Monday to Friday

Emergency Telephone Number: 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: May 2021

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: HSR002545
Classified under the group standard: Construction Products (toxic [6.7A]) Group Standard

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



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

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Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

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 Immediately call the doctor or poison centre
Skin:	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
Inhaled:	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
Required instructions:	For advice contact the Poisons Centre 0800 POISON (0800 764 766) or contact a doctor
Workplace facilities:	Eye wash and safety shower facilities are recommended

Section 5: FIRE FIGHTING MEASURES

Type of hazard:	Not classed as flammable
Fire hazard properties:	Non flammable. No fire or explosion hazard exists
Regulatory requirements:	Not applicable
Extinguishing methods:	Not applicable

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Hazchem code for fire: Not applicable

Protective clothing: Not applicable

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures: If spilt (bulk) contact emergency services if applicable
Wear dust proof goggles, PVC/rubber gloves, a Class P2 (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 1000kg are present.
Emergency response plans for toxic response are required where quantities are greater than 1000kg
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 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
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/m³
Silica, crystalline – quartz (14808-60-7) TWA 10 mg/m³
Aluminium oxide (1344-28-1) TWA 10 mg/m³
(note: the value is for inspirable dust containing no asbestos and less than 1% free silica)

Ferric oxide (1309-37-1) TWA 5 mg/m³

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Sodium oxide (1313-59-3) data not available
Hexavalent chromium (Cr(VI)) (18540-29-9) TWA 0.05 mg/m³

Application in the workplace:

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

**Exposure standards outside
The work place:**

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

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

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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
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
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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
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Section 16: OTHER INFORMATION

Relevant information:

mg/m³ – 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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