



SAFETY DATA SHEET

CONCRETES

100 Bollard Road
Tuakau
New Zealand
Telephone 0800 374 566

Issue date 26 August 2010

Section 1: IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Product name: CONCRETE PRODUCTS

Other names: May include but not be limited to:

- Handicrete
- High Strength Handicrete
- Rapidset
- High Strength Rapidset

CAS number: Unassigned

Recommended uses: Handicrete - General purpose concrete, both structural and non-structural
High Strength Handicrete - General purpose concrete specifically formulated for high strength structural applications
Rapidset - For all general post hole and non-structural applications
High Strength Rapidset - For all general post hole and structural applications

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: 26 August 2010

Section 2: HAZARDS IDENTIFICATION

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



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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



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

Ingredients:

Ingredient	Concentration
Sand	10 – 50 %
Cement	10 – 40 %
Aggregate	25 – 60%
Gypsum plaster	0 – 2%
Fast setting additive	0 – 1%

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
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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

Aggregates

Ingredients	CAS number	Content (%w/w)
Silica – crystalline (quartz)	14808 - 60 -7	<40%
Naturally occurring metal oxides	Not known	<5%
Innocuous silicates	Not known	Balance

Gypsum plaster

Ingredients	CAS number	Content (%w/w)
Calcium sulphate hemihydrate	13397 - 24 - 5	98 – 100%
Calcium sulphate dihydrate	10101 – 41 - 4	0 – 2%
Crystalline silica	14808 - 60 -7	< 0.1%

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

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



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- 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 National 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 media and methods: Not applicable
Hazchem code for fire: Not applicable
Recommended 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 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



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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

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
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 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

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



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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
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



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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

Section 16: OTHER INFORMATION



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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

Additional information None

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