



A division of Firth Industries

SAFETY DATA SHEET

Dricon OxiTone™ CHROME GREEN

100 Bollard Road
Tuakau
New Zealand
Telephone 0800 374 566

Issue date 22 October 2010

Section 1: IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Product name: Dricon OxiTone™ CHROME GREEN
Other names: None
Recommended uses: Colourant in cement based products
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: 22nd October 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:
Additives Intermediates Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2006

HSNO Approval Number: HSR002503

Hazard classification: 6.1D – A substances that is acutely toxic (oral)
6.3A – A substances that is irritating to the skin
6.4A – A substance that is irritating to the eyes (mild irritant)



WARNING: Causes skin irritation



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Harmful if swallowed
Causes eye irritation
Keep out of reach of children
Read label before use
Read SDS before use
Wash skin and hands thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Ingredient name	CAS NO	Contents
Chromium (III) oxide	1308 – 38 - 9	98 - 100 %
Other ingredients determined not to be hazardous		Balance

Section 4: FIRST AID MEASURES

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

Ingested: If swallowed, call a POISON CENTRE or doctor / physician if you feel unwell
Rinse mouth
Do NOT induce vomiting

Eye contact: If in eyes, rinse cautiously with water for several minutes.
Remove contact lenses if present and easy to do. Continue rinsing
If eye irritation persists, get medical advice / attention

Skin: If on skin, wash with plenty of soap and water.
If skin irritation occurs, get medical advice / attention
Take off contaminated clothing and wash before re-use

Inhaled Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. Ensure airways are clear. Apply artificial respiration if not breathing. Seek medical attention if any discomfort continues.

Workplace facilities: Eye wash, soap and water

Advice to doctor: Treat symptomatically

Section 5: FIRE FIGHTING MEASURES



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Suitable extinguishing media: Use appropriate fire extinguishing for surrounding environment

Hazards from combustion products:

Under fire conditions the product may emit toxic and/or irritating fumes. A small amount (<0.1% as Cr) of reversion to Cr(VI) may occur if this substance is exposed to elevated temperatures.

Specific hazards: This product is non-combustible

Recommended protective clothing: Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Water spray may be used to keep fire exposed containers cool.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Avoid breathing dust and increase ventilation. Wear appropriate personal protective equipment and clothing to prevent exposure. Evacuate all unprotected personnel. Remove all sources of heat. Sweep up material avoiding dust generation or use dustless methods such as vacuum. Material may be dampened with water to minimise dust generation. Use absorbent paper dampened with water to pick up remaining material. Place into suitable labelled vapour tight containers for subsequent recycling or disposal.

If large quantities of this material enter the waterways, contact the Environmental Protection Authority or your local Waste Management Authority.

Section 7: HANDLING AND STORAGE

Precautions for safe handling:

Avoid generating dust. Wear appropriate protective equipment to prevent skin and eye contact. Practice good personal hygiene i.e. always wash hands after handling and before eating, drinking, smoking or using the toilet

Conditions for safe storage:

Store in a cool, dry well-ventilated area away from foodstuffs and incompatible materials. Do not store near combustible materials. Keep container closed when not in use. Has unlimited storage stability in sealed containers

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

National exposure standards:



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The exposure standard established for Chromium (III) compounds (as Cr) by the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour is as follows:

Substance	TWA mg/m ³
Chromium (III) compounds (as Cr)	0.5

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal 8 hour working day, for a 5 day week

Biological Limit Values:

No biological limit allocated

Engineering controls:

Good ventilation adequate to keep airborne concentrations below the exposure standard is required. Where dusts are generated during use, a local exhaust ventilation system, drawing dust away from breathing zone, should be used.

Respiratory protection:

Where ventilation is inadequate and dusts are generated, the use of an approved respirator with filter complying with AS/NZS 1715 and AS/NZS 1716 should be used.

Eye protection :

Safety glasses with side shields, goggles or full-face shield as appropriate is recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian / New Zealand Standard AS/NZS 1337 – Eye Protectors for Industrial Applications

Hand protection:

Impervious PVC or rubber gloves should be worn to avoid prolonged skin contact. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 : Occupational protective gloves – Selection, use and maintenance

Body protection:

Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist

Hygiene measures:

Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES



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Appearance: Fine green odourless powder
Solubility: Insoluble in water.
Molecular weight 152.02
Vapour pressure: Not available
Specific gravity: 5.21 (water = 1)
Boiling point: 4000 °C
Melting point: 2435 °C
Flash point: Not applicable
Flammability: This product is non-combustible

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and handling

Incompatible materials: May react with molten alkali at high temperatures under oxidising conditions. May react with lithium, nitroalkanes, dirubidium acetylide, oxygen difluoride and other strong oxidisers. Reaction with chlorine trifluoride and other strong oxidisers. Reaction with chjlorine trifluoride produces flame. Contact between glycerol and chromic oxide may produce an explosion. Avoid contact with combustible materials.

Hazardous decomposition products:
A small amount (<0.1% as Cr) of reversion to Cr (VI) may occur if this substance is exposed to elevated temperatures.

Hazardous polymerisation: Will not occur

Section 11: TOXICOLOGICAL INFORMATION

Toxicology information:

The toxicity datum available for Chromic Oxide is as follows:
LD50 (Oral, Mammal – Unspecified Species) : 621 mg/kg

Ingestion: Ingestion may irritate the gastric tract causing nausea and vomiting

Eye contact: Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision and redness.

Skin contact: Irritating to skin resulting in redness and itching.

Inhalation: Inhalation of dusts may irritate the respiratory system.

Chronic effects: Prolonged or repeated inhalation of dusts may affect the lungs and cause breathing to be difficult. Prolonged or repeated skin contact may cause defatting leading to dermatitis.

Section 12: ENVIRONMENTAL INFORMATION



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Ecotoxicity: There is no indication of biomagnification of chromium along the terrestrial food chain (soil – plant – animal)

Persistence / Degradability:
Stable in soil. No photodegradation with sunlight.

Mobility: Chromic oxide is insoluble and has no vapour pressure, no transport between environmental compartments is expected.

Bioaccumulative potential:
Bioaccumulation of chromium from soil to above ground parts of plants is unlikely.

Environment protection: Prevent this material from entering waterways, drains and sewers.

Section 13: DISPOSAL CONSIDERATIONS

Disposal information: The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

Section 14: TRANSPORT INFORMATION

Transport information: Not classified as Dangerous Goods, according to the New Zealand Standard 5433:1999 – Transport of Dangerous Goods on Land

Section 15: REGULATORY INFORMATION

Regulatory status: Classified as hazardous according to criteria in The Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001

HSNO Approval Number: Classified under the Group Standard:
Additives Intermediates Process Chemicals and Raw Materials
(Subsidiary Hazard) Group Standard 2006

HSNO Approval Number: HSR002503

Hazard category: Irritant

Section 16: OTHER INFORMATION

Additional information None

Although reasonable care has been taken in the preparation of this document, Dricon (A division of Firth Industries) extends no warranties and makes no representations as to the accuracy or completeness of the information contained therein, and assumes no responsibility regarding the suitability for the user's intended purposes or for the consequences of its use.

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



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Each individual should make a determination as to the suitability of the information for their particular purpose (s).