



SAFETY DATA SHEET

Dricon OxiTone™ WHITE

100 Bollard Road
Tuakau
New Zealand
Telephone 0800 374 566

Issue date 21 October 2010

Section 1: IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Product name: Dricon OxiTone™ WHITE
Other names: Titanium White
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: 21st 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:
Surface Coatings & Colourants (Toxic 6.7) Group Standard 2006

HSNO Approval Number: HSR 002679

Hazard classification: 6.7B – Substances that are suspected human carcinogens



WARNING: Suspected of causing cancer
Read label before use
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required



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Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Ingredient name	Formula	CAS NO	Contents
Titanium oxide	TiO ₂	13463 – 67 - 7	100 %

Section 4: FIRST AID MEASURES

If exposed or concerned, get medical advice / attention

Ingested: Do not induce vomiting. Rinse mouth thoroughly with water. Victims who are conscious should drink large quantities of milk or water. Never make an unconscious person drink fluids. Seek medical attention if any discomfort continues.

Eye contact: Immediately hold eyelids open, check for and remove any contact lenses. Flush eye with plenty of water for at least 15 minutes. Seek medical attention if discomfort continues.

Skin: Remove affected person from source of contamination. Remove contaminated clothing. Wash skin immediately with soap and water. Clothing should be washed before being re-used. Seek medical attention if any discomfort continues.

Inhaled Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Seek medical attention if any discomfort continues.

Workplace facilities: Eye wash, soap and water

Advice to doctor: Treat symptomatically

Section 5: FIRE FIGHTING MEASURES

Type of hazard: Not classed as flammable

Fire hazard properties: No unusual fire or explosion hazards noted.

Regulatory requirements: Not applicable

Extinguishing media and methods:



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Use extinguishing media appropriate for surrounding fire.
Use: Water spray, fog or mist. Foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc.

Hazchem code for fire: Not applicable

Recommended protective clothing: Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Increase ventilation. Evacuate all unnecessary personnel. Wear sufficient respiratory protection and full protective clothing to minimise skin and eye exposure. Sweep or shovel up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container for subsequent 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: Use dust-tight containers. Good housekeeping is important to prevent accumulation of dust. Avoid generating dust. Label containers. Keep containers closed when not in use.

Conditions for safe storage: Store in suitable, labelled containers. Keep containers tightly closed when not in use. Protect from damage. Avoid any dust build-up by frequent cleaning and suitable construction of storage area.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

National exposure standards:
Dust: 10mg/m³ (TWA)

Biological Limit Values:
No biological limit allocated

Engineering controls: When there is large-scale use of this material (eg bagging operation), engineering control methods to reduce exposures may be necessary. Use local exhaust ventilation and process enclosure to control airborne dust. A dust collecting system



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may be also necessary. Supply sufficient replacement air to make up for air removed by exhaust systems.

Respiratory protection:

Where sufficient ventilation is not available, avoid breathing dust by wearing an AS 1716 approved particulate filter respirator. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective devices; and AS/NZS 1716, Respiratory Protective Devices.

Eye protection :

Safety glasses with side shields or goggles should be worn as described in Australian 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

Appearance:	Fine white odourless powder
Solubility:	Insoluble in water.
pH	Not applicable
Vapour pressure:	Not available
Specific gravity:	Not available
Density:	3.7 – 4.2 kg/l
Boiling point:	2500 - 3000 °C
Freezing point:	Not available
Melting point:	1775 °C
Flash point:	Not applicable
Flammability:	This product is non-flammable

Section 10: STABILITY AND REACTIVITY

Stability: Stable



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Conditions to avoid: None known
Incompatible materials: None known
Hazardous decomposition products: None known
Hazardous polymerisation: Will not occur

Section 11: TOXICOLOGICAL INFORMATION

Toxicology information:

Oral (rat) LD50 > 10 000 mg/kg
Dermal (rabbit) LD50 > 10 000 mg/kg
Inhalation (rat) LD50 > 6.8 mg/ ¼ hour

Ingestion: Practically non-toxic by ingestion. Ingestion of large amounts may irritate the gastric tract causing nausea and vomiting.

Eye contact: Eye contact may cause mechanical irritation.

Skin contact: Not absorbed through the skin. Not irritating to the skin but use of rigorous washing procedures to remove dust may cause skin irritation.

Inhalation: High concentrations of dust may cause coughing and mild temporary irritation.

Chronic effects: In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have been shown to cause lung tumours at concentrations associated with substantial lung burdens and consequential pulmonary overload and inflammation. However, other laboratory animals such as mice and hamsters did not develop lung tumours under similar testing with titanium dioxide. Furthermore, human epidemiology studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer.

Carcinogenicity: Titanium dioxide is classified as an IARC Category 2B carcinogen – possibly carcinogenic to humans

Section 12: ENVIRONMENTAL INFORMATION

Ecotoxicity: Fish toxicity: LC0 (Leuciscus idus, 48 hour) : > 1000 mg/l

Persistence / Degradability: This product is persistent and does not biodegrade.

Mobility: There is no evidence of mobility of these products as solid particles

Section 13: DISPOSAL CONSIDERATIONS

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



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Disposal information: Recover and reclaim or recycle, if practical. Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements.

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:
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Section 16: OTHER INFORMATION

Additional information None

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