

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**Web Site:** www.dx50.co.nz  
**PRODUCT NAME:** **DX 50**  
**Use:** WATER TREATMENT  
**Synonym(s):**

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
CHLORINE DIOXIDE	ClO <sub>2</sub>	>1 g/L	10049-04-4
WATER	H <sub>2</sub> O	Rest	7732-18-5
<b>UN No.</b>	None Allocated		

## 3. HAZARDS IDENTIFICATION

**HASNO APPROVAL NUMBER:** HSR007938  
NOT CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO NZS 5433

**DG Class:** None Allocated  
**Subsidiary Risk(s):** None Allocated  
**Hazchem Code:** None Allocated  
**Pkg Group:** None Allocated  
**EPG:** None Allocated

## 4. FIRST AID MEASURES

**Eye:** Flush gently with running water for 15 minutes.  
**Skin:** Gently flush affected areas with water.  
**Inhalation:** If over exposure occurs leave exposure area immediately. If irritation persists or breathing becomes laboured in any way, seek medical attention.  
**Ingestion:** DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.  
**Advice to Doctor:** Treat symptomatically

## 5. FIRE FIGHTING MEASURES

**Fire and Explosion** - Nonflammable. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use water fog to cool intact containers and nearby storage areas.

**Extinguishing:** Nonflammable.  
**Flammability:** Nonflammable. No fire or explosion hazard exists.  
**Hazchem Code:** None

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage** - If spilt, mop up area and wash residue down with water. For large spills, wear safety glasses, PVC/rubber gloves, and a Type B (Inorganic and Acid gas) Respirator during cleanup. Caution spill site may be slippery.

## 7. STORAGE AND HANDLING

**Handling** - Store in cool, dry area, removed from foodstuffs. Ensure containers are labelled, protected from physical damage and sealed when not in use. Do not store above 30 C. The manufacturer recommends that this product is stored in an opaque container and should not be exposed to light (especially UV light). Keep container tightly sealed when not in use. Also store removed from acids.

**Storage** - Before use carefully read the product label. Use of safe work practices are recommended 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). Take care not to inhale vapours when pumping this product or transferring it into another container. This should only be done in a well-ventilated area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ventilation** - Ensure adequate natural ventilation. Do not handle the concentrated product in confined spaces with no airflow.

**PPE** - Wear safety glasses and splash-proof goggles. With prolonged use, wear rubber or PVC gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	CLEAR YELLOW LIQUID	<b>Solubility (water):</b>	SOLUBLE
<b>Odour:</b>	CHLORINE-LIKE ODOUR	<b>Specific Gravity:</b>	1.05
<b>pH:</b>	2.0 (Approximately)	<b>% Volatiles:</b>	> 60% (Water)
<b>Vapour Pressure:</b>	18 mm Hg @ 20°C	<b>Flammability:</b>	NON-FLAMMABLE
<b>Vapour Density:</b>	NOT AVAILABLE	<b>Flash Point:</b>	NOT RELEVANT
<b>Boiling Point:</b>	110°C	<b>Upper Explosion Limit:</b>	NOT RELEVANT
<b>Melting Point:</b>	< 0°C	<b>Lower Explosion Limit:</b>	NOT RELEVANT
<b>Evaporation Rate:</b>	AS FOR WATER	<b>Autoignition Temp:</b>	NOT AVAILABLE
<b>Exposure Standard:</b>	NOT AVAILABLE		

## 10. STABILITY AND REACTIVITY

**Reactivity** - Compatible with most commonly used materials. Incompatible with acids (e.g. hydrochloric acid).

**Decomposition Products** - May evolve toxic gases if heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### Health Hazard

<b>Summary:</b>	Low toxicity - low irritant. No adverse health effects are anticipated with normal use of this product.
<b>Eye:</b>	Low irritant. Exposure may result in irritation and lacrimation.
<b>Inhalation:</b>	Irritant. Over exposure at high levels may result in mucous membrane irritation of the nose, throat and lungs with coughing.
<b>Skin:</b>	Low irritant. Prolonged and repeated contact with the skin may result in mild irritation.
<b>Ingestion:</b>	Low toxicity. Ingestion may result in headache, nausea, vomiting, gastrointestinal irritation and diarrhoea.
<b>Toxicity Data:</b>	No LD50 data available for this product.

## 12. ECOLOGICAL INFORMATION

**Environment:** EPA CLASSIFICATION 9.1D

This product is not anticipated to cause adverse effects to animal or plant life if released to the environment in small quantities. Not expected to bio-accumulate.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:** No special precautions are required for the disposal of this product.

**Legislation:** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

<b>UN No.</b>	None Allocated
<b>DG Class:</b>	None Allocated
<b>Subsidiary Risk(s):</b>	None Allocated
<b>Hazchem Code:</b>	None Allocated
<b>Pkg Group:</b>	None Allocated
<b>EPG:</b>	None Allocated
<b>Shipping Name:</b>	None Allocated

## 15. REGULATORY INFORMATION

## 16. OTHER INFORMATION

### ABBREVIATIONS:

mg/m <sup>3</sup>	Milligrams per cubic meter.
ppm	Parts Per Million.
TWA/ES	Time Weighted Average or Exposure Standard.
CNS	Central Nervous System.
NOS	Not Otherwise Specified.
pH	Relates to hydrogen ion concentration - this value will relate 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.
M	Moles per litre, a unit of concentration.
IARC	International Agency for Research on Cancer.

### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

### PRODUCT NAME: DX 50

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### END OF REPORT

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