

# **SAFETY DATA SHEET**

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

# Section 1. Identification of the material and the supplier

Product: MS Di-o-clean Powder Component A
Product Use: Water treatment chemical precursors

Restriction of Use: Refer to Section 15

New Zealand Supplier: AnQuip NZ Ltd
Address: 664 Shands Rd

R D 6, Christchurch

New Zealand

Telephone: +64 3 344 6136 Fax: +64 3 344 6135

Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 25 July 2024 v2

## **Section 2.** Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

## EPA Approval No: Oxidising Liquids and Solids (Acutely Toxic) - HSR002634

## **Pictograms**











Oxidising

Toxic

Irritant

Chronic

Ecotoxic

Signal Word: **DANGER** 

GHS Classification and Category	Hazard Code	Hazard Statement	
Oxidising solids Cat. 2	H272	May intensify fire oxidiser.	
Acute dermal toxicity Cat. 2	H310	Fatal in contact with skin.	
Acute inhalation toxicity Cat. 2	H330	Fatal if inhaled.	
Acute oral toxicity Cat. 3	H301	Toxic if swallowed.	
Skin irritation Cat. 2	H315	Causes skin irritation.	
Eye irritation Cat. 2	H319	Causes serious eye irritation.	
Reproductive toxicity Cat. 1	H360	May damage fertility or the unborn child.	
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.	
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.	

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Hazardous to soil organisms.	H421	Hazardous to soil organisms
Hazardous to terrestrial vertebrates.	H432	Hazardous to terrestrial vertebrates

<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P220	Keep/Store away from clothing or incompatible materials.
P260	Do not breathe dust.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.
P284	Wear respiratory protection.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Gently wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable
F304 + F340	for breathing.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P361+P364	Take off immediately contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use CO2, foam, powder, sprayed water for extinction.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

# Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Sodium chlorite	>30	7758-19-2

## Section 4. First Aid Measures

# Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice.

If on Skin Take off contaminated clothing and wash before re-use. Gently wash with

plenty of soap and water. If skin irritation occurs: get medical

advice/attention.

If Swallowed Do not induce vomiting. Wash out mouth thoroughly with water. Never

give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention

if needed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes

difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** Toxic if swallowed. Caustic, lack of breath, vomiting, blisters on lips and

tongue, burning pain in mouth and throat, gullet and stomach.

**Inhalation:** Fatal if inhaled. Headache, dizziness, nausea, drowsiness,

unconsciousness.

**Dermal:** Fatal in contact with skin.

**Skin:** Causes skin irritation (caustic, redness, pain).

**Eye:** Causes serious eye irritation (caustic, redness, bad looking, pain).

**Chronic:** May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

## **Section 5.** Fire Fighting Measures

Hazard Type	Oxidisers
Hazards from combustion products	None known.
Suitable Extinguishing media	CO2 , foam, powder, sprayed water
Precautions for firefighters and special protective clothing	Wear full protective gear.
HAZCHEM CODE	1Y

## Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel. Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

Do not allow to enter drains and water courses.

Contain released substance, store into suitable containers. If possible, remove by using absorbent material. Dispose of in compliance with local and/or national regulations.

# Section 7. Handling and Storage

## **Precautions for Handling:**

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames, hot surfaces. No smoking.

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- Keep/Store away from clothing or incompatible materials.
- Take any precaution to avoid mixing with combustibles.
- Do not breathe dust.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.
- Wear respiratory protection.

# **Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.

# Section 8 Exposure Controls / Personal Protection

# **WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

TWA STEL
Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14TH EDITION.

## **Engineering Controls**

Ensure adequate ventilation is available.

## **Personal Protection Equipment**



Eyes	Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems. Keep an eye-rinse bottle within reach.
Hands	Wear nitrile-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,35 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.
Skin	Impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.
Respiratory	Use with sufficient exhaust ventilation. If necessary, use an air-purifying face mask in case of respiratory hazards. Use the ABEK type as protection against these troublesome levels.
General	

## Section 9 Physical and Chemical Properties

Appearance	Solid
Colour	Not available
Odour	Characteristic
Odour Threshold	Not available

рН	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower	Not available
<b>Explosive Limits</b>	
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	Not available
Water Solubility	Completely soluble
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Kinematic Viscosity	Not available
<b>Particle Characteristics</b>	Not available

# Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions. Extremely high or low temperatures.
Possibility of hazardous reactions	Not available
Conditions to Avoid	Protect from sunlight and do not expose to temperatures exceeding + 50°C.
Incompatible Materials	None known.
Hazardous Decomposition Products	Doesn't decompose with normal use

# Section 11 Toxicological Information

## **Acute Effects:**

Swallowed	Toxic if swallowed. Caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach. Calculated acute toxicity(oral), ATE oral:346.793 mg/kg
Dermal	Fatal in contact with skin. Calculated acute toxicity(dermal), ATE 166.385 mg/kg
Inhalation	Fatal if inhaled. Headache, dizziness, nausea, drowsiness, unconsciousness.
Eye	Causes serious eye irritation (caustic, redness, bad looking, pain).
Skin	Causes skin irritation (caustic, redness, pain).

# **Chronic Effects:**

Carcinogenicity	Not applicable.	
Reproductive	May damage fertility or the unborn child.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May cause damage to organs (oral) through prolonged or repeated	
	exposure.	

# <u>Individual component information:</u> Acute Toxicity:

<b>Chemical Name</b>	Oral - LD50	Dermal - LD50	Inhalation – LC50
Sodium Chloride	165 mg/kg (rat)	134 mg/kg (Rabbit)	0.23 mg/L(Rat)

## Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects

Hazardous to soil organisms

Hazardous to terrestrial vertebrates

Product:		
Persistence and degradability	No data available	
Bioaccumulation	No data available	
Mobility in Soil	Solubility in water: completely soluble	
Other adverse effects	No data available	

# Individual component information (Please refer to www.epa.govt.co.nz for full details): Sodium Chloride (Cas No 7758-19-2):

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Route	Species	Duration	Value LC50/EC50
Aquatic, fish	Cyprinodon variegatus (Sheepshead minnow)	96 hr	75 mg/L
Aquatic, Crustacean	Daphnia magna (Water flea)	48 hr	0.0146 mg/L
Aquatic, Algal	Selenastrum capricornutum (Green algae)	96 hr	1.32 mg/L
Bioaccumulative	Not Determined		
Rapidly Degradable	Yes		

Do not allow to enter waterways.

## **Section 13. Disposal Considerations**

## **Disposal Method:**

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Oxidiser, Toxic, Ecotoxic" and that the label also has the Oxidiser, Toxic, Chronic and Ecotoxic Pictogram, waste type identifier, and the business name, address, and phone number.

Precautions or methods to avoid: Avoid release to the environment.

## **Section 14** Transport Information

## This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



## Road, Rail, Sea and Air Transport

UN No	1479	
Class - Primary	5.1	
Packing Group	II	
<b>Proper Shipping Name</b>	Oxidizing solid, N.O.S. (mixture with sodium chlorite)	
Marine Pollutant	Yes	
Special Provisions	If the product's individual container is below 1kg, it can be	
	transported as a non-DG as long as the product packaging is still	
	labelled as per DG requirements and the driver is given safety	
	information in accordance with Chapter 3.4 of the UNRTDG.	

## Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Oxidising Liquids and Solids (Acutely Toxic) - HSR002634

(Please refer to www.epa.govt.co.nz for full control details):

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HSW (HS) Regulations 2017	Trigger Quantity			
Certified Handlers	Not required			
Location Certificate	250kg			
Signage Trigger Quantities (Schedule 3)	100Kg			
Emergency Response Plan (Schedule 5)	100Kg			
Secondary Containment (Schedule 5)	100Kg			
Tracking (Schedule 26)	Any			
<b>HSNO Additional Controls (Restrictions of</b>	use)			
77A	No person may use this substance described as a pesticide or a veterinary medicine. However, this substance may be used in the formulation of a pesticide or a veterinary medicine.  For the purpose of this control—  (a) pesticide includes, but is not limited to, a product intended for use as an acaricide, antifouling paint, avicide, fumigant, fungicide, insecticide, herbicide, miticide, molluscicide, piscicide, timber treatment preservative or vertebrate toxic agent  (b) veterinary medicine has the same meaning given to it in the Agricultural Compounds and Veterinary Medicines Act 1997.			
Hazardous Property Controls Notice 2017				
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate			
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators			
HPC Notice Part 2	Certain substances restricted to workplaces only			
HPC Notice Part 3	Hazardous substances in a place other than a workplace			
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances			

## **Section 16** Other Information

Glossary

EC<sub>50</sub> Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD<sub>50</sub> Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

#### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14<sup>th</sup> edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2020

5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

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Please contact the New Zealand distributor, if further information is required.

Issue Date: 25 July 2024 Review Date: 25 July 2029