

SAFETY DATA SHEET

Date of Issue 2021/4/6

Issue No. 1.4

1. IDENTIFICATION OF SUBSTANCE AND COMPANY UNDERTAKING

Product Name:

Product description : Stabilized Chlorine Dioxide

Intended use: drinking water treatment, food processing and equipment surface sanitizer

Company Identification:

Supplier:

24 Hour Health Emergency:

2. HAZARD IDENTIFICATION

Classifications

Physical Hazards: Oxidizing liquid – Category 2

Health Hazards: Oral Tox. 5

Skin Irrit. 3

Environmental Hazards: No significant hazards

Labeling:

Signal Words: Exclamation Mark

Hazard statement:

H302 = May cause damage if swallowed

H315 = May cause skin irritation

H320 = May cause eye irritation if contact Precautionary Statement

P101 = If medical advice is needed, have product container or label at hand

P102 = Keep out of reach of children

P103 = Read label before use

P262 = Do not get in eyes, on skin , or on clothing

P264 = Wash ..thoroughly after handling

P303+ P361+P353 = If on skin or hair, remove /take off immediately all

Contaminated clothing. Rinse skin with water or shower.

P410+P412 = protect from sunlight. Do not expose to temperature exceeding 38°C.

P501= Dispose of contents/container in accordance with national regulation

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Symbol/Pictograms:

3. COMPOSITION INFORMATION ON INGREDIENTS

THIS MATERIAL IS DEFINED AS A MIXTURE

NAME	CAS NO	CONCENTRATION	G S HAZARD CODE
CHLORINE DIOXIDE	10049-04-4	6.5 %	H302 H315 H320

4. FIRST AID MEASURES

Inhalation of Vapour(Free ClO ₂)	Remove to fresh air immediately. If breathing difficult - give oxygen and seek medical advice. May cause irritation to the mucous membranes and headaches
Eye contact	ClO ₂ is a mild ocular irritant. Rinse well with water. Seek ophthalmic assistance if irritation persists
Skin contact	Wash off with soap and water for several minutes. Seek medical assistance if irritation persists
Ingestion	Category 111. Give 5% sodium bicarbonate solution followed by a demulcent such as milk. Seek medical help

5. FIRE FIGHTING MEASURES

Extinguishing media	Water
Fire fighting protection equipment:	Respirators and gloves. Wear full protective clothing and breathing apparatus

6. ACCIDENTAL RELEASE

Precautions	Do not allow liquid to come into contact with excessive heat or other chemicals, especially acids or chlorine compounds. Any large spillage (Greater than 25 litres) must be neutralised with sodium sulphite / sodium thiosulphite solution, with a contact time of at least 10 minutes. The treated spillage can then be flushed to the foul drain. Do not allow to enter waterways
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7. HANDLING AND STORAGE PRECAUTIONS

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Handling	Treat with normal care afforded to chemicals while still in sealed container. Wear safety neoprene gloves and chemical protection - fabrics may be bleached by this solution
Storage	Store well away from acids, oxidising & reducing agents in a cool dark place
Incompatible Materials	Acids, oxidising & reducing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits (as ClO ₂)	Long Term Exposure Limit 8 Hour TWA Short Term Exposure Limit 15 Minute Reference Period	0.1 ppm 0.3mgm ⁻³ 0.3ppm 0.9mgm ⁻³
Respiratory	If fumes are released, wear gas mask	
Skin Protection	Chemical protection suit / gloves	
Eye Protection	Goggles	
Hygiene	Normal personal care	

9. PHYSICAL PROPERTIES

Form @25°C	Liquid, miscible with water	Odour	Ozone like odour
pH	9.5 – 11.5	Appearance	Pale straw coloured solution
Boiling point:	110°C	Specific gravity @ 20°C	1.12-1.15
Vapour pressure @ 20°C	17.5 mm/HG (Similar to water)	Solubility in water	Complete

10. STABILITY / REACTIVITY

Conditions to avoid	Contact with acid, oxidising or reducing agents and chlorine donors, direct sunlight, temperatures above 38°C, freezing, evaporation to dryness Chlorine dioxide gas
Hazardous Decomposition	

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11. TOXICOLOGY					
Oral LD50	5000 mg/Kg				
Dermal Irritation	Modify. Draize (7 Days) Albino Rabbits (NZ Strain) No dermal irritation				
Ocular irritation	Modify. Draize (4 eye) 7 day same strain. Mild conjunctivitis for 2 days; Mild ocular irritant				
12. ECOLOGICAL INFORMATION					
Biodegradability	Chlorine Dioxide is reduced by sunlight to Chloride Ion				
Ecotoxicity	Low				
13. DISPOSAL CONSIDERATION					
Chemical	Dispose to foul drain/sewer after use or neutralisation				
Drum Disposal	Wash thoroughly and offer for recycling				
14. TRANSPORT INFORMATION					
UN No.	3139	Class	5.1	P.G	I
IMDG		Proper Shipping Name		Oxidising Liquid, NOS. (Contains Buffered Stabilised Chlorine Dioxide) UN No. 3139	
15. REGULATORY INFORMATION					
Supply Label Details					
Label Name					
Symbols					
Risk	R32	Contact with acid liberates very toxic gas			
Phrases	R41	Risk of serious damage to eyes			
Safety	S2	Keep out of reach of children			
Phrases	S3/9/49	Keep only in original container in a cool well ventilated place			
	S14	ventilated place			
	S24/25	Keep away from acids.			
	S36/37/39	Avoid contact with eyes and skin			
		Wear suitable protective clothing, gloves and eye/face protection			
16 OTHER INFORMATION					

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Observe all National, Federal and Local laws / Bylaws with regard to the use of this product.

Always check with relevant regulatory authorities before use

**NEVER MIX UNDILUTED LIQUID WITH ACIDS, CHLORINE DONORS, OR OTHER
ACTIVATORS**

Disclaimer

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