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SAFETY DATA SHEET

1. Identification of the substance/Preparation and the Company/Undertaking

Product Name: ODOR SOLUTION / OS-5

Company Name: New Water Tech. 9100 Pumpkin Ridge.
Port Saint Lucie, FL 34986

EMERGENCY TELEPHONE: Ronald L. Balk 1-210-760-2578 (US)

2. Hazards Identification

GHS - Classification

Category



Signal Word: IRRITANT

Hazard Statements: Irritant (Skin and Eyes)

Physical Hazards:

Skin

Eye

Ingestion

Precautionary Statements:

Skin contact may result in redness tingling or burning sensation.

Splashes can produce painful irritation and eye damage

May cause irritation of the mouth, throat and stomach.

3. Composition / Information on Ingredients

Chemical Name	CAS No	Weight-%	IARC/OSHA/NTP
CARCINOGEN LISTED			
Water	7732-18-5	99%	NO
Chlorine dioxide	10049-04-4	<1%	NO
			TWA0.1/STEL0.3PPM

Eye Contact: Rinse **immediately with plenty of water, also under the eyelids, for at least 15 minutes.**

Seek immediate medical attention/advice.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation: **Inhalation of mist or vapor may irritate respiratory tract.**

Ingestion: May be harmful if swallowed. May cause irritation of the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Note to Physicians: Treat symptomatically.

5. Fire-Fighting Measures

Flammable Properties:
Not considered to be a fire hazard.

Explosive Properties:
Not considered to be an explosion hazard.

Suitable Extinguishing Media:
Water spray, dry chemical, alcohol foam, or carbon dioxide.

Unsuitable Extinguishing Media:
No information available.

Specific Hazards Arising from the Chemical:
Chlorine dioxide has highly toxic characteristics. Use a gas mask as a preventive measure, if there is any risk of chloride dioxide in the air.

Protective Equipment and precautions for Firefighters:
In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full face piece operated in the pressure-demand or other positive pressure mode.

6. Accidental Release Measures

Personal precautions: Use only with adequate ventilation.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Other Information: Not Applicable.

7. Handling and Storage

Advice on Safe Handling: Avoid contact with skin, eyes, or clothing.
Use only with adequate **ventilation**.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Product will not support flame or burn.

Incompatible Materials: Strong Oxidizing agents.

8. Exposure Controls/Personal Protection

Chemical Name	European Union	China	Japan	Korea	Australia
Taiwan					
Chlorine Dioxide Dissolved in Water					

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment (PPE)

Eye /face Protection: Tight sealing face goggles.

Body Protection: Suitable protective clothing.

General Hygiene Considerations:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State:	Liquid	Odor:	Slight
Appearance:	Pale yellow to yellow	Odor Threshold:	No
Chlorine-like			
Color:	Colorless to yellowish		
information available			

Properties:	Values	Remarks-Method
pH:	6.5-7.0	
"Salt Out" Point (°F):	N/E	
Melting Point/Freezing Point:		Same as water
Boiling Point/range:		Same as water
Flash Point:	N/A	
Evaporation Rate (water=1):	N/A	
Flammability (solid gas):		N/A
Flammability Limits in Air:	N/A	
Upper Flammability Limit:	N/A	
Lower Flammability Limit:	N/A	
Vapor Pressure (mm Hg):		No data available
Vapor Density: (0°C):		1.54 kg/dm ³
Specific Gravity H₂O=1):		1.0
Specific Gravity (2nd Value):	N/A	

Water Solubility:	Complete
Solubility (ies):	
Partition Coefficient:	No data available
(n-octanol/water):	No data available
Auto ignition Temperature:	N/A
Decomposition Temperature:	No data available
Kinematic Viscosity:	No data available
Dynamic Viscosity:	No data available
Oxidizing Properties:	No data available
Explosive Properties:	No data available

9.2 Other Information

Softening Point:	
Molecular Weight:	
VOC Content (%):	>20%
Density:	1.0 gm/CC
Bulk Density)	

10. Stability and Reactivity

Stability: Chlorine dioxide aqueous solution is an oxidizing agent, which is stable as long as the solution is stored in cold and dark conditions. Chlorine dioxide can decompose to chlorine gas and oxygen gas..

Conditions to Avoid: Chlorine dioxide aqueous solution is an oxidizing agent, which is stable as long as the solution is stored in cold and dark conditions. Chlorine dioxide can decompose to chlorine gas and oxygen gas.

Incompatible Materials: • Iron, copper and their alloys. • Chlorides and other reducing agents. • Mixtures with organic material are highly flammable. In the event of contact with oils, the reaction is very violent and explosion may occur. • Chlorine dioxide gas can be ignited or made to explode by means of friction or impact

Hazardous Decomposition: Burning may produce gasses

Possibility of Hazardous Reactions: None under normal processing.

11. Toxicological Information

Product information: Chlorine dioxide solution in concentrations of between 0.3 and 3% is classified as a substance hazardous to human health and irritating to the eyes. Chlorine dioxide is quickly broken down into other chlorine derivatives such as chlorate, chlorite and chloride. High concentrations of chlorine dioxide may occur in air during manufacture

Acute Toxicity: LD50 (orally, rat) = 39-113 mg/kg

Routes of Exposure: Skin absorption, eye contact, inhalation and ingestion.

Symptoms of overexposure: (chlorine dioxide gas) Initially, chlorine dioxide affects the eyes, skin and airways. Normal symptoms of overexposure are coughing, pallid skin, headache, fatigue, nausea, breathing difficulties and irritation to the eyes, skin

and mucous membranes. The first symptoms appear immediately. Acute over-exposure can cause bronchitis, pneumonia and pulmonary oedema. Local effects: Inhalation Inhalation causes irritation of the mucous membranes. Skin and eyes Chlorine dioxide aqueous solution is an eye and skin irritant. Long term toxicity: Chronic exposure may lead to lung damage and damage to the teeth

Chemical Name	Oral LD50	DermalLD50	LC50 (Lethal Concentration)
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This product contains no hazardous components as defined by 29CFR1910.1200

Carcinogenity: None of the components of this material are listed as carcinogens by IARC, NTP, or OSHA.

Reproductive Toxicity : No data Available.

Conditions aggravated by exposure: No data available.

Synergistic materials: No data available.

12. Ecological Information

Mobility: Chlorine dioxide absorbed into water has low volatility. Persistence/ decomposability: Chlorine dioxide is quickly decomposed forming chlorate, chlorite and chloride. Bioaccumulation: Chlorine dioxide is quickly converted into the products of its decomposition. There is no evidence to show bioaccumulation in animals. Ecotoxicity: Chlorine dioxide is toxic to aquatic organisms. Lowest specification for fish is LC50=0.02 mg/dm³ (96 h, Pimephales promelas)

13. Disposal Considerations

If this product as supplied becomes waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40CFR261. Review federal, state, and local government requirements prior to disposal.

14. Transportation Information

Chlorine dioxide aqueous solution in concentrations of < 3% has not been classified as hazardous goods.

Proper Shipping Name: Compounds, cleaning liquids, NOS.

Hazard Class: N/A

Identification Number: None

Packing Group: None

15. Regulatory Information

US Federal Regulations:

TSCA: In Compliance

CERCLA: Not subjected to CERLA

SARA Section 302: Not subjected to SARA Section 302

SARA Section 313: Not subjected to SARA Section 313

State Regulations:

Massachusetts: None

Pennsylvania: None

New Jersey: None

California Prop: None

16. Other Information

NFPA Rating:

Health: 1 Flammability: 0 Reactivity: 1

PPE:

Goggles & Shield; Proper Gloves

The information accumulated herein is believed to be accurate and represents the best data currently available. It is the user's responsibility to determine suitability of use. No warranty, expressed or implied, is made and New Water Tech, Inc. assumes no legal responsibility or liability resulting from its use.