

# SAFETY DATA SHEET

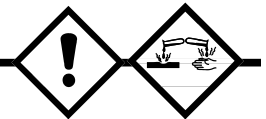
## Section 1. Chemical Product and Company Identification

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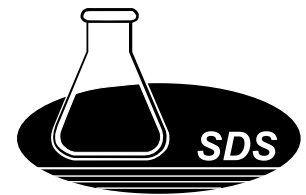
<b>Product Name:</b>	ChemTreat CL3000
<b>Product Use:</b>	Cooling Water Microbiocide
<b>Supplier's Name:</b>	ChemTreat, Inc.
<b>Emergency Telephone Number:</b>	(800)424-9300 (Toll Free)
<b>Address (Corporate Headquarters):</b>	5640 Cox Road Glen Allen, VA 23060
<b>Telephone Number for Information:</b>	(800)648-4579
<b>Date of SDS:</b>	February 14, 2019
<b>Revision Date:</b>	February 14, 2019
<b>Revision Number:</b>	19021401AN

## Section 2. Hazard(s) Identification

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<b>Signal Word:</b>	<b>WARNING</b>
<b>GHS Classification(s):</b>	Skin corrosion/irritation – Category 2 Eye damage/irritation – Category 2b Acute Toxicity Inhalation – Category 4 Hazardous to the aquatic environment Acute – Category 2 Corrosive to Metals – Category 1
<b>Hazard Statement(s):</b>	H315 Causes skin irritation. H320 Causes eye irritation. H332 Harmful if inhaled. H401 Toxic to aquatic life. H290 May be corrosive to metals.
<b>Precautionary Statement(s):</b>	
<b>Prevention:</b>	P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P271 Use only outdoors or in a well-ventilated area. P234 Keep only in original container.



**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313 If skin irritation develops or persists, get medical advice/attention.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists, get medical advice/attention.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P314 Get medical advice/attention if you feel unwell.  
P362 Take off contaminated clothing and wash before reuse.  
P390 Absorb spillage to prevent material damage.

**Storage:**

P406 Store in a corrosive resistant container with a resistant inner liner.

**Disposal:**

P501 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

**System of Classification Used:**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Hazards Not Otherwise Classified:**

None.

**Section 3. Composition/Hazardous Ingredients**

Component	CAS Registry #	Wt.%
Chlorine dioxide	10049-04-4	0.3

**Comments**

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

## Section 4. First Aid Measures

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<b>Inhalation:</b>	If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen. Monitor the patient closely for delayed development of pulmonary edema, which may occur up to 72 hours after inhalation.
<b>Eyes:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
<b>Skin:</b>	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, seek medical advice/attention.
<b>Ingestion:</b>	DO NOT INDUCE VOMITING. Rinse mouth. Drink large quantities of water. Consult a physician immediately. Neutralization and use of activated charcoal are not recommended.
<b>Most Important Symptoms:</b>	N/D
<b>Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:</b>	Probable mucosal damage may contraindicate the use of gastric lavage. Have the product container, label or MSDS with you when calling a poison control center or doctor, or when going for treatment.

## Section 5. Fire Fighting Measures

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<b>Flammability of the Product:</b>	Not flammable.
<b>Suitable Extinguishing Media:</b>	Use extinguishing media suitable to surrounding fire.
<b>Specific Hazards Arising from the Chemical:</b>	Product may emit toxic gases or fumes under fire conditions. Chlorine dioxide solution is not explosive. Chlorine dioxide gas, which may evolve from chlorine dioxide solution, may spontaneously decompose with a mild energy release at concentrations of 10% in air or greater at standard temperature and pressure (i.e., 76 mm Hg partial pressure).
<b>Protective Equipment:</b>	If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained breathing apparatus.

## ***Section 6. Accidental Release Measures***

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<b>Personal Precautions:</b>	Use appropriate Personal Protective Equipment (PPE).
<b>Environmental Precautions:</b>	Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.
<b>Methods for Cleaning up:</b>	Large spills: Prevent runoff to sewers, streams, lakes or other bodies of water. Small spills: Absorb liquid on vermiculite, floor absorbent or other absorbent material. Flush area with water. Stop spill at source, dike area around spill to prevent spreading, and pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, vermiculite, floor absorbent, or other absorbent material and shoveled into containers. Flush with water the area from which the bulk of the spill has been removed.
<b>Other Statements:</b>	None.

## ***Section 7. Handling and Storage***

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<b>Handling:</b>	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
<b>Storage:</b>	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Do not store below 34°F. Do not store above 110°F. Store above Freeze Point. The material should not be heated to temperatures in excess of 140°F. At temperatures above 140°F, the gas concentration in the headspace of the container may reach high, energetically unstable concentrations.

## Section 8. Exposure Controls/Personal Protection

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### Exposure Limits

Component	Source	Exposure Limits
Chlorine dioxide	ACGIH TLV	0.83 mg/m <sup>3</sup> STEL
	OSHA PEL	0.3 mg/m <sup>3</sup> TWA

### Engineering Controls:

Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.

### Personal Protection

#### Eyes:

Wear splash-proof face and eye protection (PVC is preferred) where chlorine dioxide solution may splash or spray. Safety glasses should be in compliance with OSHA regulations.

#### Skin:

Wear waterproof protective clothing (PVC is preferred) where chlorine dioxide solution may splash or spray. Wear resistant gloves, such as Neoprene, to prevent skin contact, wear impervious clothing and boots. Other protective equipment: eyewash station, emergency shower.

#### Respiratory:

Exposures in the workplace should be monitored to determine if worker exposure exceeds the facility-specified exposure "action level" or the use of the material produces adverse health effects or symptoms of exposure. Provide adequate ventilation to maintain all work areas at concentrations below 0.1 ppm chlorine dioxide concentration. If the generation of vapors or mists is possible, use local ventilation. Where gas concentration may exceed 0.1 ppm, only a NIOSH/MSHA approved half or full-face acid gas respirator should be used. Monitoring results must be used to assess the proper level or respiratory protection necessary. Proper engineering and/or administrative controls should be used to reduce worker exposure. The facility's respiratory protection program must meet the requirements established in 29 CFR 1910.134, which includes a program for medical evaluation. A NIOSH/MSHA approved self-contained breathing apparatus, with full face piece, is required for leaks and emergencies where the concentration may exceed 5 ppm.

## Section 9. Physical and Chemical Properties

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<b>Physical State and Appearance:</b>	Liquid, Greenish Yellow, Clear
<b>Specific Gravity:</b>	1.000 @ 20°C
<b>pH:</b>	3.2 @ 20°C, 100.0%
<b>Freezing Point:</b>	32°F
<b>Flash Point:</b>	N/D
<b>Odor:</b>	Strong
<b>Melting Point:</b>	N/A
<b>Initial Boiling Point and Boiling Range:</b>	N/D
<b>Solubility in Water:</b>	Complete
<b>Evaporation Rate:</b>	N/D
<b>Vapor Density:</b>	N/D
<b>Molecular Weight:</b>	N/D
<b>Viscosity:</b>	<100 CPS @ 20°C
<b>Flammability (solid, gas):</b>	N/D
<b>Flammable Limits:</b>	N/A
<b>Autoignition Temperature:</b>	N/A
<b>Density:</b>	8.34 LB/GA
<b>Vapor Pressure:</b>	N/D
<b>% VOC:</b>	0
<b>Odor Threshold</b>	N/D
<b>n-octanol Partition Coefficient</b>	N/D
<b>Decomposition Temperature</b>	N/D

## Section 10. Stability and Reactivity

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<b>Chemical Stability:</b>	Stable at normal temperatures and pressures.
<b>Incompatibility with Various Substances:</b>	Avoid exposure to light. Avoid contact with: metals, reducing agents, strong oxidizing agents, sulfur compounds or sulfur-containing components, carbon monoxide, excessive heat, mercury, organic materials, phosphorus.
<b>Hazardous Decomposition Products:</b>	Chlorine dioxide gas, Chlorine, Hydrochloric acid, Oxygen gas.
<b>Possibility of Hazardous Reactions:</b>	None known.
<b>Reactivity:</b>	N/D
<b>Conditions To Avoid:</b>	N/D

## Section 11. Toxicological Information

### Acute Toxicity

Chemical Name	Exposure	Type of Effect	Concentration	Species
ChemTreat CL3000	Oral	LD50	>5000 MG/KG	Rat
	Dermal	LD50	>5000 MG/KG	Rat
	Inhalation	LC50	2.13 MG/L	Rat

### Carcinogenicity Category

Component	Source	Code	Brief Description
Chlorine dioxide	EPA	EPA-CBD	Carcinogenic potential cannot be determined.

### Likely Routes of Exposure:

Ingestion, skin and eye contact and inhalation of vapors which may evolve from the material.

### Symptoms

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

### Skin Corrosion/Irritation:

Moderately irritating to the skin

### Serious Eye Damage/Eye Irritation:

Minimally irritating to the eye

### Sensitization:

N/D

### Germ Cell Mutagenicity:

N/D

### Reproductive/Developmental Toxicity:

N/D

### Specific Target Organ Toxicity

Single Exposure: N/D

Repeated Exposure: N/D

### Aspiration Hazard:

N/D

**Comments:**

Potential Acute Health Effects: Eye contact: irritation, redness  
Inhalation: irritation, sore throat, wheezing, and difficulty breathing  
Skin contact: redness  
Ingestion: abdominal pain, nausea, vomiting and diarrhea; it is unlikely to cause serious digestive tract injury. Chlorine dioxide given daily in drinking water at 1–100 ppm caused a decrease in blood glutathione, altered the morphology of erythrocytes, and caused osmotic fragility in laboratory animals.  
Potential chronic health effects: Short term exposure: Components in this product may be irritating to the skin, eyes and respiratory tract. Long term exposure: Prolonged inhalation effects may be harmful. In extreme cases, it may cause pulmonary damage and death.

## Section 12. Ecological Information

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**Ecotoxicity**

Species	Duration	Type of Effect	Test Results
Daphnia pulex	48h	EC50	1.8 mg/l
Mysid Shrimp	48h	LC50	188 mg/l
Sheepshead Minnow	96h	LC50	297 mg/l

**Persistence and Biodegradability:** N/D

**Bioaccumulative Potential:** N/D

**Mobility In Soil:** N/D

**Other Adverse Effects:** N/D

**Comments:** None.

## Section 13. Disposal Considerations

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**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by procedures approved by state and local authorities.



## Section 14. Transport Information

Controlling Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Packing Group:
DOT	UN1760	CORROSIVE LIQUIDS, N.O.S.	(0.3% CHLORINE DIOXIDE AQUEOUS SOLUTION)	8	PGIII
IMDG	UN1760	CORROSIVE LIQUIDS, N.O.S.	(0.3% CHLORINE DIOXIDE AQUEOUS SOLUTION)	8	PGIII

**Note:** N/A

## Section 15. Regulatory Information

### Inventory Status

**United States (TSCA):**  
**Canada (DSL/NDL):**

All ingredients listed.  
All ingredients listed.

### Federal Regulations

#### SARA Title III Rules

#### Sections 311/312 Hazard Classes

<b>Fire Hazard:</b>	No
<b>Reactive Hazard:</b>	No
<b>Release of Pressure:</b>	No
<b>Acute Health Hazard:</b>	Yes
<b>Chronic Health Hazard:</b>	No

### Other Sections

Component	Section 313 Toxic Chemical	Section 302 EHS TPQ	CERCLA RQ
Chlorine dioxide	Yes	N/A	N/A

**Comments:** None.



**State Regulations**

**California Proposition 65:** None known.

**Special Regulations**

Component	States
Chlorine dioxide	CA, DE, ID, MA, ME, MN, NJ, NY, PA, WA, WI

**Compliance Information**

**NSF:** Certified to NSF/ANSI Standard 60  
Maximum use rate for potable water – 670 mg/l use rate  
This product ships as NSF from:  
Allentown, PA

**Food Regulations:** N/A

**KOSHER:** This product has not been evaluated for Kosher approval.

**Halal:** This product has not been evaluated for Halal approval.

**FIFRA:** Registered pesticide under 40 CFR 152.10, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), EPA Registration Number: 75757-2-15300.

**Other:** None

**Comments:** None.

**Section 16. Other Information**

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**HMIS Hazard Rating**

<b>Health:</b>	1
<b>Flammability:</b>	0
<b>Physical Hazard:</b>	1
<b>PPE:</b>	X

**Notes:** The PPE rating depends on circumstances of use. See Section 8 for recommended PPE.  
The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.



## Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

**Prepared by:** Product Compliance Department; ProductCompliance@chemtreat.com

**Revision Date:** February 14, 2019

## Disclaimer

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