

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

## SECTION 1. PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME:** Chlorine Dioxide Solution  
**PRODUCT CONCENTRATION:** Chlorine Dioxide Solution 0.03%  
**PRODUCT USE:** Water disinfection.  
**RESTRICTIONS ON USE:** Do not use product for anything other than above specified uses.  
**MANUFACTURER/SUPPLIER:** AquaPura USA, Corp  
 P.O. Box 267702  
 Fort Lauderdale, FL 33326  
**EMERGENCY PHONE NUMBER:** 1800-222-1222

## SECTION 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:** SKIN IRRITATION: Category 2  
 EYE IRRITATION: Category 2B  
 ACUTE TOXICITY - INHALATION: Category 4  
**SIGNAL WORD:** WARNING

**PICTOGRAM:**



**HAZARD STATEMENTS:** Toxic if swallowed  
 Causes severe eye irritation  
 Harmful if inhaled

**OTHER HAZARDS:** The following percentage of the mixture consist of ingredient(s) with unknown acute toxicity: 100%

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT(S)		NON-HAZARDOUS COMPONENT(S)	
<b>CHEMICAL NAME:</b>	Chlorine Dioxide	<b>CHEMICAL NAME:</b>	Distilled Water
<b>MOLECULAR FORMULA:</b>	ClO <sub>2</sub>	<b>MOLECULAR FORMULA:</b>	H <sub>2</sub> O
<b>CONCENTRATION:</b>	0.3% (3,000 ppm)	<b>CONCENTRATION:</b>	>99.7% (>997,000 ppm)

## SECTION 4. FIRST AID MEASURES

**INHALATION:** Ensure access to fresh air if Chlorine Dioxide has been inhaled. If not breathing, give artificial respiration. Call a poison control center or doctor for treatment advise.

**SKIN CONTACT:** Remove contaminated clothing immediately. Wash off with plenty of water.

**EYE CONTACT:** If symptoms develop, rinse immediately with water.

**INGESTION:** First aid is not normally required when small amounts are ingested. If symptoms develop, DO NOT induce vomiting. DO NOT give anything by mouth to an unconscious person. Drink large quantities of water. Seek medical attention.

**MOST IMPORTANT SYMPTOMS, ACUTE AND DELAYED:** May be harmful if inhaled

**IMMEDIATE MEDICAL ATTENTION NEEDED:** Call poison control center or doctor for treatment advise.

**NOTES TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

## SECTION 5. FIREFIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Water

**UNSUITABLE EXTINGUISHING MEDIA:** No applicable data available

**SPECIFIC HAZARDS:** Not a fire or explosion hazard

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:** Wear self-contained breathing apparatus (SCBA).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Gas mask, safety goggles and safety gloves are necessary when dealing with major spills.

**ENVIRONMENTAL PRECAUTIONS:** Spills of Chlorine Dioxide should be diluted to a low concentration using large amounts of water.

## SECTION 7. HANDLING AND STORAGE

**HANDLING:** Use only in well-ventilated areas. Avoid inhalation.

**STORAGE:** The material should be stored indoors and in refrigerator after opening. Keep the material only in the container in which it was shipped. Avoid direct contact with sunlight.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Ensure adequate ventilation, specially in confined areas.

**PERSONAL PROTECTIVE EQUIPMENT:** Where there is potential airborne exposures in excess of applicable limits, wear approved

respiratory protection with gas cartridge. Recommended filter type: 3M Respirator Cartridge 6003.

This product does not contain any exposure limits that require disclosure according to OSH Hazard Communication Standard 2012.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE AND ODOR:</b>	Yellow with pungent odor.	<b>VAPOR PRESSURE:</b>	Not established
<b>ODOR THRESHOLD OF GAS:</b>	0.1 ppm	<b>VAPOR DENSITY:</b>	Not established
<b>pH:</b>	6.0 or lower	<b>LIQUID SPECIFIC GRAVITY:</b>	1.0 at 0° C
<b>FREEZING POINT:</b>	0° C (32° F)	<b>SOLUBILITY:</b>	Complete
<b>BOILING POINT:</b>	100° F (212° F)	<b>PARTITION COEFFICIENT:</b>	Not applicable
<b>FLASH POINT:</b>	Not applicable	<b>AUTO-IGNITION TEMPERATURE:</b>	Not applicable
<b>EVAPORATION RATE:</b>	Not established	<b>DECOMPOSITION TEMPERATURE:</b>	No data
<b>FLAMMABILITY:</b>	Not applicable	<b>VOSCPSITY:</b>	0.894 cP (centipoise) at 25° C
<b>FLAMMABILITY LIMITS:</b>	Not established		

#### SECTION 10. STABILITY AND REACTIVITY

<b>REACTIVITY:</b>	Not applicable data available.
<b>CHEMICAL STABILITY:</b>	Stable at normal temperatures and storage conditions. Decomposes on heating.
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	Material does not undergo hazardous polymerization.
<b>CONDITIONS TO AVOID:</b>	Avoid direct exposure to sunlight or heat.
<b>INCOMPATIBLE MATERIAL:</b>	Metals, strong oxidizing agents, organic material, reducing agents.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Vapors that evolve from product may decompose on direct exposure to sunlight and heat.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Chlorine dioxide gas is a mucuos membrane and respiratory tract irritant. Primary routes of exposure include ingestion, skin and eye contact and inhalation of vapors which may evolve from material. High concentrations of chlorine dioxide may occur in air during manufacture.

<b>TARGET ORGAN EFFECTS:</b>	This may cause mild eye irritation. It is unlikely to cause serious eye irritation or injury.
<b>DIGESTIVE TRACT:</b>	This may cause nausea, vomiting and diarrhea. It is unlikely to cause serious digestive tract injury.
<b>RESPIRATORY TRACT:</b>	The fumes fro this material may cause respiratory tract irritation, wheezing and difficulty breathing.
<b>DEVELOPMENTAL EFFECTS:</b>	Available information is insufficient to asses risk to the fetus from maternal exposure to this material during pregnancy.
<b>CANCER EFFECTS:</b>	Available information is insufficient to asses cancer risk. This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), tha National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA), or the Unites States Enviromental Protection Agency (EPA) or American Conference of Industrial Hygienist (ACGIH).

#### SECTION 12. ECOLOGICAL INFORMATION

No data available.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with all applicable Federal, State and local rules, regulations and requirements.

#### SECTION 14. TRANSPORT INFORMATION

Chlorine Dioxide aqueous solution in concentrations of < 3% has not been classified as dangerous in the meaning of transport regulations.

#### SECTION 15. REGULATORY INFORMATION

<b>TSCA:</b>	Not listed
<b>DSL:</b>	One or more components of this product are not listed on the Domestic Substance List (DSL)
<b>SARA 313 COMPONENTS:</b>	This material does not contain any chemical components with known CAS numbers that exceeds the threshold (De Minimis) reporting levels establishe by SARA Title III, Section 313.
<b>CALIFORNIA PROP. 65:</b>	This material does not contain any chemical known to State of California to cause cancer, birth defects or any other reproductive harm.

#### SECTION 16. OTHER INFORMATION

This information set forth herein is believed to be accurate . However, NO WARRANTY IS GIVEN AS TO THE ACCURACY OF ANY OF THE INFORMATION, WHETHER ORIGINATED BY THE COMPANY OR BY OTHERS.