



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

AquaPulse Systems, Inc. Page 1  
Material Safety Data Sheet

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Aqueous Chlorine Dioxide Solution - 3,000 ppm  
IDI032 Revised 11-NOV-2004  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

CAS Number : 10049-04-4  
Formula : ClO2  
Molecular Weight : 67.45  
CAS Name : Chlorine Dioxide

Company Identification

MANUFACTURER/DISTRIBUTOR  
AquaPulse Systems, Inc.  
16117 Covello Street  
Van Nuys, CA 91406

PHONE NUMBERS

Product Information : 800-441-7515/Outside US: 302-774-1000  
Transport Emergency : CHEMTREC: 800-424-9300/Outside US:  
703-527-3887  
Medical Emergency : 800-441-3637/Outside US: 302-774-1000

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COMPOSITION/INFORMATION ON INGREDIENTS  
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Components

Material	CAS Number	%
Chlorine Dioxide	10049-04-4	0.1-0.4
Inerts		99.6-99.9

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HAZARDS IDENTIFICATION  
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Potential Health Effects

NOTE: Inhalation of Chlorine Dioxide may cause respiratory tract irritation, coughing, wheezing and burns of the mucous membranes. Inhalation of large amounts may lead to pulmonary edema and bronchitis. Direct contact with Chlorine Dioxide causes eye and skin irritation and may cause burns. Chlorine Dioxide is toxic by ingestion.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

## Material Safety Data Sheet

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FIRST AID MEASURES  
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## # First Aid

## INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

## SKIN CONTACT

The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

## EYE CONTACT

Remove contact lenses. Flush eyes thoroughly with water for 15 minutes. If irritation persists, call a physician.

## INGESTION

No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

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FIRE FIGHTING MEASURES  
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## Flammable Properties

Flash Point : Will not burn

Not a fire or explosion hazard.

## Extinguishing Media

Use media appropriate for surrounding material.

## Fire Fighting Instructions

Evacuate personnel to a safe area. Wear self-contained breathing apparatus (SCBA) and full protective equipment.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Wear self-contained breathing apparatus (SCBA) and full protective gear.



## Material Safety Data Sheet

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Boiling Point : ~100 C (~212 F)  
Freezing Point : ~0 C (~32 F)  
Solubility in Water : Miscible  
pH : 2-8  
Odor : Chlorine.  
Form : Liquid.  
Color : Yellow, Yellowish-Green.  
Specific Gravity : 1-1.01  
Density : ~8.4 lb/gal

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STABILITY AND REACTIVITY  
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## Chemical Stability

Stable at normal temperatures and storage conditions.

Avoid heat, drying, freezing and UV light.

## Incompatibility with Other Materials

Avoid reducing agents, combustibles and organic materials.

## Decomposition

Decomposes with heat.

Thermal decomposition may produce toxic and corrosive fumes of chlorine/chlorine dioxide.

## Polymerization

Polymerization will not occur.

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

## Material Safety Data Sheet

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REGULATORY INFORMATION  
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## U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes  
Chronic : No  
Fire : No  
Reactivity : No  
Pressure : No

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OTHER INFORMATION  
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## NFPA, NPCA-HMIS

NPCA-HMIS Rating  
Health : 1  
Flammability : 0  
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

# Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS