

# AQUA OXIDE

MONO-STABILIZED CHLORINE DIOXIDE POWDER (8%min)



1kg. Vacuum Packaging



10Kgs./box

The fourth generation antimicrobial agent - highly efficient, safe and a broad-spectrum disinfectant **FOR WATER TREATMENT**. Recognized by the WHO as **new drinking water disinfectant**.

## SPECIFIC PROPERTIES & FEATURES:

1. Can eliminate pathogens, pyogenic streptococcus, microzyme, spores, and biofilms in the pipes.
2. Non-toxic; safe to handle
3. No residues to clog dosing systems/chlorinators and pipes
4. Convenient to store and use
5. Eliminates bad odor in water
6. Kills Algae
7. Decompose Toxins (heavy metallic elements, arsenic, sulphide, amine, phenol)
8. Will not form THM's with VOC's in the water thus rendering the water
9. Non-carcinogenic.
10. Operates over a wide pH range. More effective compared to conventional disinfectants.
11. Cleans the pipes as it disinfects the water.
12. Cost Effective.

**"Now Being Used by Select and Responsible Water Districts"  
SAFE . NON-CARCINOGENIC . CONVENIENT**

**FOR INQUIRIES:**

Please call: BJ MARTHEL INT'L., INC.  
No.5 ACSIE Ave. Severina Industrial Estate,  
Km. 16 West Service Road. Paranaque City  
Tel. No.: (02) 823-6593/ [www.bjmarthel.com](http://www.bjmarthel.com)  
Fax. No.: (02) 823-6404, 823-2707



**PIPAC**

BJ MARTHEL INTERNATIONAL, INC.  
#5 Acsie Ave., Severina Industrial Estate  
Km. 16 West Service Road, South Expressway  
Parañaque City

20 February 2018  
2018-0332-01  
Page 1 of 1

**REPORT OF ANALYSIS**

SAMPLE(S) : Aqua Oxide  
Mono Stabilized Chlorine Dioxide Powder (8%min)  
CAS. No.: 10049-04-4  
Batch No.: 20170915  
Mfg. Date: September 2017  
Exp. Date: September 2019

DATE SAMPLE(S) RECEIVED: 01 February 2018


DATE ANALYSIS STARTED : 07 February 2018


DATE ANALYSIS FINISHED : 19 February 2018

ANALYZED FOR : 1. Lead  
2. Arsenic  
3. Mercury  
4. Available Chlorine

**RESULT(S):**

Analyte(s)		Analytical Method(s)
1. Lead, mg/kg	0.5	Ashing-Acid Digestion/ Graphite Furnace-Atomic Absorption Spectrophotometry
2. Arsenic, mg/kg	Less than 0.3	Ashing-Acid Digestion/Hydride Vapor Generation/Atomic Absorption Spectrophotometry
3. Mercury, mg/kg	Less than 0.05	Acid Digestion/Cold Vapor Atomic Absorption Spectrophotometry
4. Available Chlorine, %	20	Titrimetry

  
MA. LETECIA M. IRIZARI  
Laboratory Analyst V  
Chem. Reg. No.: 0007369  
/sahg, SA #64240

  
THELMA JANE F. PARREÑAS  
Laboratory Manager  
Chem. Reg. No.: 0005144

This report shall not be reproduced except in full and shall not be used for advertisement or litigation without the written permission of PIPAC. The result(s) apply only to the sample(s) tested by PIPAC and shall not be construed as approval, disapproval, endorsement, or rejection of raw materials or products from which the samples were obtained.

# **AQUA OXIDE**

## **MONO-STABILIZED CHLORINE DIOXIDE**

# Safety (MSDS) data for chlorine dioxide

## **1. General**

Synonyms: chlorine dioxide; chlorine oxide

Molecular formula: ClO<sub>2</sub>

CAS No: 10049-04-4

Molecular Weight: 67.45

## **2. Composition/Information on Ingredients**

Hazardous: no

Chlorine dioxide: 8%

Sodium Chlorite	5%
Citric Acid Monohydrate	6%
Sodium Carbonate	18%
Sodium Bisulfate	12%
Sodium Chloride	59%

## **3. Hazards Identification**

Emergency Overview

Avoid eye contact, Ingestion; slight excitability, not harmful to environment; Flammability Rating: 0 - None.

## **4. First Aid Measures**

Eye contact: immediately fill eyelid, with large flows of water or saline solution and thoroughly wash at least for 15 minutes. Or call a physician.

Ingestion: gargle with water or egg white. Or call a physician.

# **AQUA OXIDE**

## **MONO-STABILIZED CHLORINE DIOXIDE**

### **5. Fire Fighting Measures**

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Sand. Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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

Keep the package intact and sealed.

Put into large water, decomposed release oxygen, to be fully decomposed, the waste discharged into the wastewater system.

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

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Separate from water, Combustible, Active metal powder, fire and heat sources.

# **AQUA OXIDE**

## **MONO-STABILIZED CHLORINE DIOXIDE**

### **8. Exposure Controls/Personal Protection**

Occupational exposure limit:

TLVTN : ACGIH 0.1ppm,0.28mg/m<sup>3</sup>

TLVWN : ACGIH 0.3ppm,0.38mg/m<sup>3</sup>

Monitoring Methods: Acid Violet R colorimetry

Respiratory protection: Exceeding the concentration in air, it must wear self-absorption filter respirators (full cover).

Emergency rescue or evacuation, they should wear air respirator.  
Other Protection: No Work site smoking. When work is completed, take a shower. To maintain good hygiene practices.

### **9. Physical and Chemical Properties**

Appearance: white powder or tablet

Odorless.

Solubility:

2.9 g/l water

Specific Gravity(water 1): 3.09 (11°C)

Melting point: no meaning

Boiling point: no meaning

10. Stability and Reactivity

Stability: Stable in water with PH 8-9, Easy to decompose in water and air.

With material cut-off: Flammable or combustible materials, reactive metal powders.

Avoid contact with conditions: heat.

Hazardous Polymerization: none

Decomposition products: oxygen and carbon dioxide.

# **AQUA OXIDE**

## **MONO-STABILIZED CHLORINE DIOXIDE**

### **11. Toxicological Information**

Acute toxicity: LD50: 1432mg/Kg mice by mouth (solid 8%) 5000 mg / Kg in mice by mouth (liquid 2%)

LC50: 5000 mg / Kg in mice by mouth (8% soluble solids 5 times) 10000 mg / Kg in mice by mouth (liquid 2%)

Sub-acute and chronic toxicity: mouse bone marrow cells, micronucleus test was negative (75 mg / Kg, 300 mg / Kg, 750 mg / Kg)

Irritation: This product has irritating. 2%, 8% 5-fold solution to the rabbits through the skin without stimulation; 2%, 8% 5-fold solution

Acute eye irritation: none

Mutagenicity: not found

Teratogenicity: not found

Carcinogenicity: not found

### **12. Ecological Information**

Eco-toxicological Toxicity: This material is not harmful to the environment.

Biodegradation: Biological does not degrade.

Non-biodegradable nature: self can photolysis

Bioaccumulation or bio-accumulative: it is a weak accumulation of

Other harmful effects: self-decomposition of chlorine dioxide in the air of ozone damaging effects are weak.

### **13. Disposal Considerations**

Waste properties: general industrial solid waste.

Waste disposal methods: the alkaline substances and absorption, and then with the vendor or manufacturer to determine the disposal methods

Waste Note: Processing should comply with local environmental regulations.

# **AQUA OXIDE**

## **MONO-STABILIZED CHLORINE DIOXIDE**

### **14. Transport Information**

Hazard Class: no information  
UN/NA: no information  
Packing mark: normal solid product

Packing Group: Z01  
Information reported for product/size: 250LB  
Packing: Generally plastic bags, bottles, barrels, or vacuum-packed foil bags.  
Transportation Note: transportation together with explosive

materials and chemical products is prohibited

### **15. Regulatory Information**

No information

### **16. Other Information**

Keep container closed.  
Use only with adequate ventilation.  
Wash thoroughly after handling.  
Avoid contact with eyes  
Label First Aid:  
In all cases call a physician immediately.  
Product Use: used as water treatment agent, bleaching agent, deodorizer, fungicide, etc..

**BJ MARTHEL List of Customers (CHLORINE DIOXIDE POWDER)**

<b>COMPANY NAME</b>	
Rosales Water District	GM John Ulpindo
Baguio Country Club	Engr. Posadas
Bohol Water Utilities, Inc.	
Calamba Water District	GM Resty Sumangan
San Jose Water District	GM Renato Gatuz
Puerto Princesa City Water District	GM Tony Romasanta
Bayawan Water District	Gm Alma Abrasaldo
Municipality of Balilihan	
Minicipality of Baclayon	
Panabo Water District	
Pikit Water District	GM Max Vilorio Boado
Glan Water	GM Rene S. Hizoler
Lebak Water District	Ms. Editha B. Labajo
Carmen Water District	
Sun Fresh Agri	Private Davao
General Santos City Water District	GM Arn B. Gellangarin
M'lang Water District	GM Robert S. Cadiena
Nasipit Water District	
Bansalan Water District	
Kapalong Water District	
Don Carlos Water District	
Metro Midsayap Water District	GM Carol S. Tolentino
Buenavista Water District	
Sultan Kudarat Water District	GM Jose D. Tabuga, Jr.
Gingogog Water District	
B. E. Dujali Water District	
Kemika Internationale Inc.	Dealer in Davao
SANRUWASA	
DRAGONTRADE CHEMICAL	Dealer in North Area
ANDRITECH INDUSTRIAL SALES	Dealer in North Area
INTEGRATED SCIENTIFIC & INDUSTRIAL SALES	Dealer in Dumaguete Area
Munoz Water District	GM Roger Miguel
Talugtug Water District	GM Marigold Godoy
Guimba Water District	GM Lex Legarda