**MSDS** 

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Date-Issued: 08/01/1997 MSDS Ref. No: BBIO26240 Date-Revised: 08/13/1997 Revision No: New MSDS

# **BioGuard Reagent #1 OTO**

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BioGuard Reagent #1 OTO

GENERAL USE: Water Analysis CHEMICAL FAMILY: Mixture

#### **MANUFACTURER**

24 HR. EMERGENCY TELEPHONE NUMBERS

Bio-Lab, Inc. BioGuard P.O. Box 1489 Decatur, GA 30031

Customer SERVICE: 800-859-7946

CHEMTREC (Transportation) (800) 424-9300 Poison Control Center (Medical)877-800-5553

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

 Chemical Name
 CAS#
 Wt.%

 Hydrochloric acid
 7647-01-0
 5.4

### **COMMENTS:**

Ingredients listed in this section have been determined to be hazardous as defined in 29 CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% of more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% of more of the composition. Information on proprietary materials is available as provided in 29 CFR 1910.1200.

#### 3. HAZARDS IDENTIFICATION

### **EMERGENCY OVERVIEW**

PHYSICAL APPEARANCE:

Clear, colorless liquid.

# **IMMEDIATE CONCERNS:**

As part of good personal hygiene and safety procedures, avoid all unnecessary exposure to the product and ensure prompt removal from eyes, skin and clothing.

### POTENTIAL HEALTH EFFECTS

EYES:

WARNING: Causes eye irritation. Avoid contact with eyes.

SKIN:

WARNING: Causes skin irritation. Avoid contact with skin.

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#### SKIN ABSORPTION:

Harmful if absorbed through skin.

#### **INGESTION:**

May be harmful if swallowed.

#### INHALATION:

May be irritating to nose and throat. Avoid breathing vapors.

#### CHRONIC:

There are no known chronic hazards.

#### **ROUTES OF ENTRY:**

Skin Contact, Inhalation, Ingestion, Eye Contact.

# 4. FIRST AID MEASURES

#### EYES:

If contact with eyes occurs: Immediately flush with cold water for at least 15 minutes. Then get immediate medical attention.

#### SKIN:

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

#### INGESTION:

If swallowed: Drink large amounts of water. Do not induce vomiting. Avoid alcohol. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician or poison control center immediately.

#### INHALATION:

If inhaled: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial respiration. Call a physician immediately.

## NOTES TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage.

#### 5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None

# **GENERAL HAZARD:**

There are no unusual fire and explosion hazards known.

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#### **EXTINGUISHING MEDIA:**

Water Fog

#### FIRE FIGHTING EQUIPMENT:

Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

#### 6. ACCIDENTAL RELEASE MEASURES

#### **GENERAL PROCEDURES:**

STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing approporiate clothing and safety equipment, contain spill material. Cover the liquid with an inert absorbent. Using clean, dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry plastic containers for disposal. Dispose of according to local, state and federal regulations.

## 7. HANDLING AND STORAGE

# **GENERAL PROCEDURES:**

Avoid contact with eyes, skin or clothing. Avoid breathing vapors.

#### HANDLING:

Use safe chemical handling procedures for the hazards presented by this material.

#### STORAGE:

Keep this product in its original container when not in use. Store in cool, dry, well-ventilated area. Keep this product and all other chemicals out of children's reach.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **EXPOSURE GUIDELINES:**

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		EXPOSURE LIMITS					
		OSHA PEL 。				SUPPLIER OEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Hydrochloric acid	TWA	5		5			

#### **ENGINEERING CONTROLS:**

General room ventilation plus local exhaust should be used to minimize exposure to vapors.

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## PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE:

Wear goggles or safety glasses with side shields when handling this product.

SKIN:

Wear rubber gloves when handling this product. Avoid contact with skin.

RESPIRATORY:

None required.

#### WORK HYGIENIC PRACTICES:

If product gets on clothing, remove and wash before reuse.

# OTHER USE PRECAUTIONS:

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Odorless APPEARANCE: Clear COLOR: Colorless

pH: <1

SOLUBILITY IN WATER: Miscible in Water

SPECIFIC GRAVITY: 1 g/ml

# 10. STABILITY AND REACTIVITY

#### CONDITIONS TO AVOID:

High temperature. Poor ventilation. Contamination.

#### STABILITY:

This product is stable under normal conditions.

# POLYMERIZATION:

Hazardous polymerization will not occur under normal conditions.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Vapors/fumes of organic/inorganic materials plus oxides of carbon may be emitted.

# INCOMPATIBLE MATERIALS:

Other swimming pool/spa chemicals in their concentrated forms. Bases and strong oxidizing agents.

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#### 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** 

This product is an eye irritant.

SKIN EFFECTS:

This product is a skin irritant.

CARCINOGENICITY:

This product is not listed as a carcinogen by IARC.

This product is not listed as a carcinogen by NTP.

This product is not listed as a carcinogen by OSHA.

# 12. ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION:

This product may be toxic to fish and aquatic organisms. Keep product from entering waterways and watersheds.

# 13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of unused, uncontaminated product in compliance with local, state and federal regulations.

# 14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
PROPER SHIPPING NAME: Not Regulated.

#### 15. REGULATORY INFORMATION

#### **UNITED STATES**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: Hydrochloric acid and o-tolidine dihydrochloride are SARA Title III Section 313 Toxic Chemicals.

# TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product or its components are not subject to export notification.

TSCA STATUS: This product or its components are listed on the TSCA Inventory.

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# OSHA HAZARD COMM. RULE:

Product is hazardous by definition of the Hazardous Communication Standard.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This product is not a registered pesticide.

# 16. OTHER INFORMATION

#### **REVISION SUMMARY**

Revision #: 1

This MSDS replaces the MSDS. Any changes in information are as follows:

# **NFPA CODES**

HEALTH: 2 FIRE: 0 REACTIVITY: 0

**HMIS CODES** 

HEALTH: 2 FIRE: 0 REACTIVITY: 0 PROTECTION: B

# MANUFACTURER DISCLAIMER:

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