

MATERIAL SAFETY DATA SHEET

MSDS

Page: 1 of 6

Date-Issued: 08/04/1997

MSDS Ref. No: BBIO26244

Date-Revised: 08/13/1997

Revision No: New MSDS

BioGuard Reagent #3 Acid Demand

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BioGuard Reagent #3 Acid Demand

GENERAL USE: Water Analysis

CHEMICAL FAMILY: Inorganic Acid

MANUFACTURER

Bio-Lab, Inc.

BioGuard

P.O. Box 1489

Decatur, GA 30031

Customer SERVICE: 800-859-7946

24 HR. EMERGENCY TELEPHONE

NUMBERS

CHEMTREC (Transportation) (800) 424-9300

Poison Control Center (Medical) 877-800-5553

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Hydrochloric acid	7647-01-0	<1

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

Clear, colorless liquid with a slightly pungent odor.

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.

INGESTION:

May be harmful if swallowed.

INHALATION:

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

MATERIAL SAFETY DATA SHEET

MSDS

Page: 2 of 6

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BioGuard Reagent #3 Acid Demand

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.

EXTINGUISHING MEDIA:

Appropriate to surrounding fire.

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.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 3 of 6
Date-Issued: 08/04/1997
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6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:
Flush with water.

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		ACGIH TLV		SUPPLIER OEL	
		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Hydrochloric acid	TWA	5		5			

ENGINEERING CONTROLS:

General room ventilation plus local exhaust should be used to maintain exposure below TLV.

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:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 4 of 6

Date-Issued: 08/04/1997

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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: Slightly Pungent

APPEARANCE: Clear

COLOR: Colorless

pH: 1 to 2

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:

Chlorine containing gases can be produced.

INCOMPATIBLE MATERIALS:

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

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

This product is an eye irritant.

SKIN EFFECTS:

This product is a skin irritant.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 5 of 6

Date-Issued: 08/04/1997

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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 is a SARA Title III Section 313 Toxic Chemical.

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.

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.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 6 of 6

Date-Issued: 08/04/1997

MSDS Ref. No: BBIO26244

Date-Revised: 08/13/1997

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BioGuard Reagent #3 Acid Demand

16. OTHER INFORMATION

REVISION SUMMARY

Revision #: 1

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

NFPA CODES

HEALTH: 1 FIRE: 0 REACTIVITY: 0

HMIS CODES

HEALTH: 1 FIRE: 0 REACTIVITY: 0 PROTECTION: B

MANUFACTURER DISCLAIMER:

IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as a recommendation to infringe any existing patents or violate any Federal, State or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.
