

MATERIAL SAFETY DATA SHEET

MSDS

Page: 1 of 7
Date-Issued: 03/09/1999
MSDS Ref. No: BBIO23500
Date-Revised: 08/28/2000
Revision No: 2

BioGuard ALGAE Banish

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BioGuard ALGAE Banish
GENERAL USE: Swimming pool algaecide.

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

COMMENTS:

EPA Registration Number: 5185-474

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Copper (metallic)	7440-50-8	3.3

COMMENTS:

Copper derived from copper sulfate pentahydrate.
Product also contains polymeric polyacrylate and gluconate stabilizing agents.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

Blue-green liquid.

IMMEDIATE CONCERNS:

CAUTION: Harmful if swallowed. Causes moderate, but temporary, eye irritation. Avoid contact with eyes or clothing. Wear protective eye wear (safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

POTENTIAL HEALTH EFFECTS

EYES:

Causes moderate, but temporary, eye irritation.

SKIN:

Product is non-irritating to skin. Avoid contact with skin.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 2 of 7

Date-Issued: 03/09/1999

MSDS Ref. No: BBIO23500

Date-Revised: 08/28/2000

Revision No: 2

BioGuard ALGAE Banish

INGESTION:

Harmful if swallowed.

INHALATION:

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

CHRONIC:

There are no known chronic hazards.

ROUTES OF ENTRY:

Eye Contact and Ingestion.

4. FIRST AID MEASURES

EYES:

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

SKIN:

If on skin: Wash with plenty of soap and water. If irritation develops, get medical attention.

INGESTION:

If swallowed: Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician or poison 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.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

GENERAL HAZARD:

At 400 C product may emit toxic fumes of copper oxide and sulfur.

EXTINGUISHING MEDIA:

Carbon Dioxide, Dry Chemical, Water

FIRE FIGHTING PROCEDURES:

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 7

Date-Issued: 03/09/1999

MSDS Ref. No: BBIO23500

Date-Revised: 08/28/2000

Revision No: 2

BioGuard ALGAE Banish

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing appropriate 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:

Do not mix with other chemicals.

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
Copper (metallic)	TWA			[1]			

OSHA TABLE COMMENTS:

1. N/A = Not Applicable

ENGINEERING CONTROLS:

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

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE:

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

MATERIAL SAFETY DATA SHEET

MSDS

Page: 4 of 7

Date-Issued: 03/09/1999

MSDS Ref. No: BBIO23500

Date-Revised: 08/28/2000

Revision No: 2

BioGuard ALGAE Banish

SKIN:

With repeated or prolonged use, wear gloves.

RESPIRATORY:

None required.

WORK HYGIENIC PRACTICES:

Remove and wash contaminated clothing 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: Faintly acidic.

COLOR: Blue-green

pH: 2.4

VAPOR PRESSURE: Not Established

VAPOR DENSITY: Not Established

BOILING POINT: Not Established

FREEZING POINT: Not Established

SOLUBILITY IN WATER: Miscible in Water

DENSITY: 10.09 lbs/gal

SPECIFIC GRAVITY: 1.18

VISCOSITY: 15cps at 25°C

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; oxides of carbon; copper oxide; sulfur.

INCOMPATIBLE MATERIALS:

Other swimming pool/spa chemicals in their concentrated forms. Oxidizing compounds.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 5 of 7

Date-Issued: 03/09/1999

MSDS Ref. No: BBIO23500

Date-Revised: 08/28/2000

Revision No: 2

BioGuard ALGAE Banish

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: >5000 mg/kg of body weight in rabbits.

ORAL LD₅₀: 3501 mg/kg of body weight in rats

EYE EFFECTS:

Causes moderate, but temporary, eye irritation.

SKIN EFFECTS:

Non-irritant (rabbit)

SENSITIZATION:

This product is not a skin sensitizer.

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 pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Securely wrap original container in several layers of newspaper and discard in trash.

EMPTY CONTAINER:

Do not reuse container. Rinse thoroughly before discarding in trash.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 6 of 7

Date-Issued: 03/09/1999

MSDS Ref. No: BBIO23500

Date-Revised: 08/28/2000

Revision No: 2

BioGuard ALGAE Banish

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Liquids, N.O.S. (Contains copper sulfate)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 1760

PACKING GROUP: III

OTHER SHIPPING INFORMATION: Limited Quantity

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Corrosive Liquid, N.O.S. (Contains Sulfuric Acid)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 1760

PACKING GROUP: III

COMMENTS:

Limited Quantity

15. REGULATORY INFORMATION

UNITED STATES

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Cupric sulfate (CAS # 7758-98-7), a component of this product, has a CERCLA RQ of 10 lbs.

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 a registered pesticide.

16. OTHER INFORMATION

PREPARED BY: Regulatory Affairs

MATERIAL SAFETY DATA SHEET

MSDS

Page: 7 of 7

Date-Issued: 03/09/1999

MSDS Ref. No: BBIO23500

Date-Revised: 08/28/2000

Revision No: 2

BioGuard ALGAE Banish

REVISION SUMMARY

Revision #: 2

This MSDS replaces the May 31, 2000 MSDS. Any changes in information are as follows:

In Section 14

Other DOT Shipping Information TDG Primary Hazard Class/Division TDG Packing Group Section 14 Footnotes TDG UN/NA Number TDG Proper Shipping Name

In Section 1

Prepared By

NFPA CODES

HEALTH: 2 FIRE: 0 REACTIVITY: 0

HMIS CODES

HEALTH: 2 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.
