

MATERIAL SAFETY DATA SHEET

MSDS

BioGuard Back Up

Date-Issued: 06/21/1997
MSDS Ref. No: BBIO23006
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Revision No: 6

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BioGuard Back Up
GENERAL USE: Swimming pool algaeicide.

MANUFACTURER

Bio-Lab, Inc.
 BioGuard
 P.O. Box 300002
 Lawrenceville, GA 30049-1002
Customer SERVICE: 800-859-7946

24 HR. EMERGENCY TELEPHONE NUMBERS

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

COMMENTS: EPA Registration Number: 5185-401

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Alkyl dimethylbenzylammonium chloride	68424-85-1	30
Propylene glycol	57-55-6	16.5
Alkyl dimethylbenzylammonium chloride	63449-41-2	10
Ethyl alcohol	64-17-5	1.3
Isopropyl alcohol	67-63-0	1.1

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

PHYSICAL APPEARANCE: Blue liquid with almondy aroma.

IMMEDIATE CONCERNS: DANGER: Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed or absorbed through skin, or inhaled. Do not get in eyes, on skin or on clothing. Do not breathe vapor or spray mist. Wear protective eyewear (goggles, face shield, or safety glasses), protective clothing and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

POTENTIAL HEALTH EFFECTS

EYES: Causes irreversible eye damage. Do not get in eyes.

SKIN: Causes skin burns. Do not get on skin.

SKIN ABSORPTION: May be fatal if absorbed through skin.

INGESTION: May be fatal if swallowed.

INHALATION: May be fatal if inhaled. Do not breathe vapor or mist.

CHRONIC: There are no known chronic hazards.

ROUTES OF ENTRY: Skin Contact, Inhalation, Ingestion, Eye Contact.

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advise.

INGESTION: If swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: If inhaled: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call poison control center or doctor for treatment advice.

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: > (200°F)

GENERAL HAZARD: Products of combustion are toxic. Heated solvent vapors can travel to an ignition source and flash back.

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, or foam.

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: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing appropriate clothing and safety equipment, contain spilled 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, municipal, state, provincial, and federal regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin or clothing. Avoid breathing vapors.

HANDLING: Mix only with water. Never add water to product. Always add product to large quantities of water. Do not mix with other chemicals. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion.

STORAGE: Keep this product in original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	<u>EXPOSURE LIMITS</u>					
	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SUPPLIER OEL</u>	
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Alkyl dimethylbenzylammonium chloride	TWA	N/E [1]		N/E		
Propylene glycol	TWA	N/E		50 ppm ^[2]		
Alkyl dimethylbenzylammonium chloride	TWA	N/E		N/E		
Ethyl alcohol	TWA	1000 ppm	1900	1000 ppm	1880	
Isopropyl alcohol	TWA	400 ppm	983	400 ppm	983	
	STEL	500 ppm		500 ppm	1230	

OSHA TABLE COMMENTS:

1. N/E = Not Established
2. WEEL

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: Respirator protection is not normally required under routine use conditions. If product is used in an area with poor ventilation or dust is expected, a respirator that meets OSHA/ANSI standards may be 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: Almondy

APPEARANCE: Clear

COLOR: Blue

pH: 7.0 to 8.00

VAPOR PRESSURE: Not Determined

VAPOR DENSITY: Not Determined

BOILING POINT: Not Determined

MELTING POINT: Not Established

SOLUBILITY IN WATER: Miscible in Water

SPECIFIC GRAVITY: 0.988 g/ml

VISCOSITY: 22.3 cps

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: Strong acids, strong alkalies, strong oxidizing agents, and all other swimming pool/spa chemicals in their concentrated forms.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: This product is corrosive to eyes.

SKIN EFFECTS: This product is corrosive to skin.

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

DISPOSAL METHOD: Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire.

EMPTY CONTAINER: Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Liquids, N.O.S. (contains quaternary ammonium compound)

PRIMARY HAZARD CLASS/DIVISION: 8 (Corrosive)

UN/NA NUMBER: 1760

PACKING GROUP: III

OTHER SHIPPING INFORMATION: Limited Quantity or ORM-D Consumer Commodity exemption if applicable.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: YES **PRESSURE GENERATING:** NO **REACTIVITY:** NO **ACUTE:** YES **CHRONIC:** NO

313 REPORTABLE INGREDIENTS: This product or its components are not listed.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: This product or its components are not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product contains the following chemicals substances subject to the reporting requirements of TSCA 12(b) one-time export notification substances (Section 4) if exported from the United States: Isopropyl Alcohol CAS # 67-63-0

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.

CLEAN WATER ACT: Not Listed.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This product is a registered pesticide.

CLEAN AIR ACT

40 CFR PART 68--RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: Propylene glycol, ethyl alcohol, and isopropyl alcohol are subject to Clean Air Act Section 111 Volatile Organic Compounds.

16. OTHER INFORMATION

PREPARED BY: Regulatory Affairs Department

REVISION SUMMARY Revision #: 6 This MSDS replaces the April 16, 2003 MSDS. Any changes in information are as follows: In Section 1 [] Chemtrec MSDS 24 Hour Emergency Phone Numbers In Section 2 Emergency Overview - Immediate Concerns Potential Health Effects - Eyes Potential Health Effects - Skin Potential Health Effects - Skin Absorption Potential Health Effects - Inhalation In Section 4 Firstaid - Eyes Firstaid - Skin Firstaid - Ingestion Firstaid - Inhalation In Section 14 DOT Proper Shipping Name DOT UN/NA Number Other DOT Shipping Information

HMIS RATING

HEALTH:		3
FLAMMABILITY:		1
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		B

NFPA RATING

HEALTH:	3
FIRE:	1
REACTIVITY:	0

Key

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal

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