

**MATERIAL SAFETY DATA SHEET**

MSDS

**BioGuard Algicide 28-40**

**Date-Issued:** 06/21/1997  
**MSDS Ref. No:** BBIO23040  
**Date-Revised:** 06/20/2005  
**Revision No:** 9

**1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** BioGuard Algicide 28-40**GENERAL USE:** Swimming pool algicide.**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: 6836-157-5185**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Alkyl dimethylbenzylammonium chloride	68424-85-1	40
Ethyl alcohol	64-17-5	5

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW****PHYSICAL APPEARANCE:** Blue liquid with almondy aroma.

**IMMEDIATE CONCERNS: DANGER:** Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear safety glasses, rubber gloves and protective clothing. Wash thoroughly with soap and water after handling and before eating. 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.**INGESTION:** May be fatal if swallowed.**INHALATION:** 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 in 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: Take off contaminated clothing. Rinse skin immediately with plenty of water for at least 15 - 20 minutes. Call a poison control center or doctor for treatment advice.

**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.

**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. Measures against circulatory shock, respiratory depression and convulsion may be needed.

## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** 43.3°C (110°F) to 45.6°C (114°F)

**FLAMMABLE CLASS:** Class II Flammable Liquid

**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. Do not mix with other chemicals. Always add product to large quantities of water.

**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. Do not contaminate water, food or feed by storage or disposal. Do not store on side. Avoid creasing or impacting of side walls.

## 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/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>
Alkyl dimethylbenzylammonium chloride	TWA	N/E <sup>[1]</sup>	N/E	
Ethyl alcohol	TWA	1000 ppm	1900	1000 ppm 1880

#### OSHA TABLE COMMENTS:

1. N/E = Not Established

**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.

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**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Almondy

**APPEARANCE:** Slightly hazy to clear.

**COLOR:** Blue

**pH:** 7.0 to 8.0

**VAPOR PRESSURE:** Not Established

**VAPOR DENSITY:** Not Established

**BOILING POINT:** Not Established

**FREEZING POINT:** Not Established

**SOLUBILITY IN WATER:** Completely Miscible

**SPECIFIC GRAVITY:** 0.92 g/ml

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## 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 alkalis, strong oxidizing agents, and all other swimming pool/spa chemicals in their concentrated forms.

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** 2000 g/kg of body weight in rabbits.

Toxicological information given is based on data for a similar product.

**ORAL LD<sub>50</sub>:** 970 g/kg of body weight in rats

Toxicological information given is for a similar product.

**EYE EFFECTS:** This product is corrosive to eyes.

**SKIN EFFECTS:** This product may be 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.

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## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, 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.

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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray or mixture of 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.

**EMPTY CONTAINER:** Do not reuse empty container bottle. Wrap container and put in trash.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Corrosive Liquids, Flammable, N.O.S. (contains quaternary ammonium compound and ethyl alcohol)

**PRIMARY HAZARD CLASS/DIVISION:** 8 (Corrosive)

**SECONDARY HAZARD CLASS/DIVISION:** 3 (Flammable Liquid)

**UN/NA NUMBER:** 2920

**PACKING GROUP:** II

### AIR (ICAO/IATA)

**IATA NOTE:** Not recommended for transport by air.

## 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 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.

**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:** Ethyl alcohol is subject to the Clean Air Act Section 111 Volatile Organic Compounds.

## 16. OTHER INFORMATION

**PREPARED BY:** Regulatory Affairs Department

**REVISION SUMMARY** Revision #: 9 This MSDS replaces the June 17, 2005 MSDS. Any changes in information are as follows:

#### HMS RATING

<b>HEALTH:</b>		3
<b>FLAMMABILITY:</b>		2
<b>PHYSICAL HAZARD:</b>		0
<b>PERSONAL PROTECTION:</b>		B

#### NFPA RATING

<b>HEALTH:</b>		3
<b>FIRE:</b>		2
<b>REACTIVITY:</b>		0

#### Key

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

**NFPA STORAGE CLASSIFICATION:** NFPA Flammable Liquid, Class 2

**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.