

# MATERIAL SAFETY DATA SHEET

MSDS

## BioGuard WINTER Arctic Blue Algae Protector



**Date-Issued:** 05/10/1999  
**MSDS Ref. No:** BBIO24297  
**Date-Revised:** 10/27/2005  
**Revision No:** 4

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** BioGuard WINTER Arctic Blue Algae Protector

**GENERAL USE:** Winter algae preventative for swimming pools.

#### MANUFACTURER

Bio-Lab, Inc., A Chemtura Company

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: 5185-474

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

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

### 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. However, as part of a good work and personal hygiene practices, avoid unnecessary contact with skin.

**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 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 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. 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 an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call poison control center or doctor for treatment advice.

**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.

**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:** 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)**

Copper (metallic)

		<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>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>
	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.

**SKIN:** With repeated or prolonged use, wear gloves.

**RESPIRATORY:** None required for normal use.

**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:** 15 cps 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.

---

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** > 5000 mg/kg of body weight in rabbits.

**ORAL LD<sub>50</sub>:** 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.

---

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

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

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

**UN/NA NUMBER:** 1760

**PACKING GROUP:** III**OTHER SHIPPING INFORMATION:** Limited Quantity**CANADA TRANSPORT OF DANGEROUS GOODS****PROPER SHIPPING NAME:** Corrosive Liquids, N.O.S. (Contains copper sulfate)**PRIMARY HAZARD CLASS/DIVISION:** 8 (Corrosive)**UN/NA NUMBER:** 1760**PACKING GROUP:** III**AIR (ICAO/IATA)****NOTE:** Not recommended for transport by air.**COMMENTS:** Limited Quantity**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** This product or its components are not listed.**FIRE:** NO **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:** 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 Department**REVISION SUMMARY** Revision #: 4 This MSDS replaces the December 27, 2004 MSDS. Any changes in information are as follows: In Section 4 Firstaid - Eyes Firstaid - Ingestion In Section 1 Product Code In Section 1 Product Code In Section 1 Product Code In Section 1 Product Code**HMIS RATING**

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

**NFPA RATING**

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

**Key**

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

**COMMENTS:** The contents and format of this MSDS are in accordance with OSHA Hazard Communication Standard, National Fire Protection Association (NFPA), and Hazardous Materials Identification System (HMIS).**MANUFACTURER DISCLAIMER: IMPORTANT:** The 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, provincial, state, municipal, 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.