Version:	1.1	
Revision Date:	12/05/2008	
Print Date:	12/05/2008	

The recipient of this Safety Data Sheet is urged to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information on this sheet,(2) furnish a copy to each of your customers for the product, and (3) request your customers to inform their employees and customers as well.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BioGuard® Off Season Arctic Blue Algae Protector®

Product Use Description: Recreational Water Product

EPA Registration Number: 5185-474

Company:

Bio-Lab, Inc. BioGuard

P.O. Box 300002 Lawrenceville, GA 30049-1002

Emergency telephone:

CHEMTREC (US Transportation):

(800) 424-9300 (703) 527-3887

Poison Control Center (Medical):

(877) 800-5553

For additional emergency telephone numbers see section 16 of the

Safety Data Sheet.

Customer Service: (800) 859-7946

Prepared by: <u>Product Safety Department</u>

(US) +1 866-430-2775 (EU) +44 (0) 1753.603.000

Email: MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

Form: liquid
Colour: blue green
Odour: mild acidic

Harmful if swallowed. OSHA Hazards:

Irritating to eyes.

Avoid breathing vapors.

Do not get in eyes, on skin, or on clothing.

THIS MATERIAL IS HAZARDOUS UNDER THE
CRITERIA OF THE FEDERAL OSHA HAZARD
COMMUNICATION STANDARD 29CFR 1910.1200.

Version:	1.1	
Revision Date:	12/05/2008	
Print Date:	12/05/2008	

Potential Health Effects

Primary Routes of Entry : Eye contact

Ingestion

Inhalation : Not expected to present a significant inhalation hazard under anticipated

conditions of normal use.

Skin : Not expected to cause skin irritation under normal use conditions.

Eyes : Causes eye irritation.

Ingestion : Harmful if swallowed.

Chronic Exposure : None known.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Concentration
copper	7440-50-8	3.3 %
Trade secret 020		< 2 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Remove to fresh air.

Give oxygen or artificial respiration if needed. Call a POISON CENTRE or doctor/physician.

Skin contact : Remove contaminated clothing and shoes.

Rinse immediately with plenty of water for at least 15 minutes.

Call a POISON CENTRE or doctor/physician.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes.

Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.

Call a POISON CENTRE or doctor/physician.

Ingestion : Call a physician or poison control centre immediately.

Do not induce vomiting unless told to do so by the poison control center or

doctor.

Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

MSDS Number: BIO_4500068

2 of 10

Version:	1.1
Revision Date:	12/05/2008
Print Date:	12/05/2008

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : not applicable

Protective equipment and precautions for firefighters

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Hazardous decomposition

products

Carbon oxides Copper oxides

Sulphur oxides

Special protective equipment

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

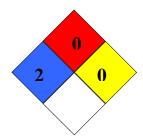
Thoroughly decontaminate fire fighting equipment including all fire fighting wearing

apparel after the incident.

Further information

NFPA Classification : Health Hazard: 2

Fire Hazard: 0 Reactivity Hazard: 0



SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for cleaning up

Using appropriate protective clothing and safety equipment, contain spilled

material.

Soak up with inert absorbent material.

Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry

containers for disposal.

Additional advice : Treat recovered material as described in the section "Disposal considerations".

MSDS Number: BIO_4500068

3 of 10

Version:	1.1	
Revision Date:	12/05/2008	
Print Date:	12/05/2008	

SECTION 7. HANDLING AND STORAGE

Handling

Advice on safe handling : Avoid contact with skin, eyes and clothing.

Avoid breathing vapors.

Do not mix with other chemicals.

Do not contaminate water, food or feed by storage or disposal or cleaning of

equipment.

Wash hands thoroughly with soap and water after handling and before eating,

drinking or using tobacco.

Do not handle until all safety precautions have been read and understood.

Storage

Requirements for storage areas and containers

Store in original container.

Store in a cool, dry, well ventilated area away from heat or open flame.

Keep out of reach of children. Keep away from animals.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value - Basis - Update	Control parameters	Further information
Trade secret 020	CEIL ; ACGIH 1994-09-01	2 mg/m3	
Trade secret 020	CEIL ; OSHA PO 1989-03-01	2 mg/m3	

Engineering measures

Engineering measures : Use with adequate ventilation.

Ensure that eyewash stations and safety showers are close to the workstation

location.

Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection : No special protective equipment required.

Wear as appropriate: Rubber gloves

Hygiene measures : Wash contaminated clothing before reuse.

MSDS Number: BIO_4500068 4 of 10

Version:	1.1	
Revision Date:	12/05/2008	
Print Date:	12/05/2008	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

Colour : blue green

Odour : mild

acidic

Safety data

Flash point : not applicable

pH : 2-3

Density : 10.09 lb/gal

Relative density : 1.18

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : High temperatures.

Poor ventilation. Contamination

Materials to avoid : Oxidizing agents

Do not mix with other swimming pool/spa chemicals in their concentrated

forms.

Hazardous decomposition

products

: Type: Hazardous decomposition products

Carbon oxides Copper oxides Sulphur oxides

Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat

Dose: 3,501 mg/kg

Acute dermal toxicity : LD50 rabbit

Dose: > 5,000 mg/kg

MSDS Number: BIO_4500068 5 of 10

Version:	1.1	
Revision Date:	12/05/2008	
Print Date:	12/05/2008	

Skin irritation : rabbit

Result: No skin irritation

Eye irritation : Moderate eye irritation

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : Toxic to 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.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local

regulations.

Contaminated packaging : Do not re-use empty containers.

Rinse thoroughly before discarding in trash.

Offer rinsed packaging material to local recycling facilities.

SECTION 14. TRANSPORT INFORMATION

DOT UN-Number : 1760

Proper shipping name : Corrosive liquids, n.o.s.
Proper technical name : Corrosive liquids, n.o.s.
(Contains: Copper Sulfate)

Class : 8 Packing group : III

IATA UN-Number : 1760

Proper shipping name : Corrosive liquid n.o.s.
Proper technical name : Corrosive liquid n.o.s.
(Contains: Copper Sulfate)

Class : 8 Packing group : III

IMDG UN-Number : 1760

MSDS Number: BIO_4500068 6 of 10

Version:	1.1
Revision Date:	12/05/2008
Print Date:	12/05/2008

Proper shipping name CORROSIVE LIQUID, N.O.S. Proper technical name (Contains: Copper Sulfate)

Class : 8 Packing group : III

Not recommended for shipment by air Limited Quantity exemption possible ORM-D Consumer Commodity exemption possible

MSDS Number: BIO_4500068 7 of 10

Version:	1.1	
Revision Date:	12/05/2008	
Print Date:	12/05/2008	

SECTION 15. REGULATORY INFORMATION

National regulatory information

OSHA Hazards : This material is hazardous under the criteria of the Federal OSHA Hazard

Communication Standard 29CFR 1910.1200.

SARA Hazard category : Acute Health Hazard

US CERCLA (Component) US. Environmental Protection Agency (EPA); The 1980 Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

Listed, No RQ is being assigned to this generic or broad class.

Copper(II) sulfate, pentahydrate | 7758-99-8 | < 15 %

(1:1:5)

Reportable quantity: 1,000 lbs

Trade secret 020 < 2 %

US State Regulations

US MA RTK (Component)

US. The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-know law, The Massachusetts Substance List,

105 CMR 670.000

Massachusetts hazardous substance

Trade secret 020 < 2 %

US NJ RTK (Component) <u>US. New Jersey Department of Environmental Protection -; Bureau of</u> Hazardous Substances New Jersey Right to Know Law, Hazardous

Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq]

hazardous substance

Copper(II) sulfate, pentahydrate | 7758-99-8 | < 15 %

(1:1:5)

special health hazard substance, special health hazard, corrosive

MSDS Number: BIO_4500068 8 of 10

Version:	1.1	
Revision Date:	12/05/2008	
Print Date:	12/05/2008	
		т

< 2 %

US PA RTK (Component) US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323

environmental hazard, hazardous substance

Copper(II) sulfate, pentahydrate | 7758-99-8 | < 15 % (1:1:5)

environmental hazard, hazardous substance

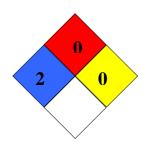
Trade secret 020 < 2 %

SECTION 16. OTHER INFORMATION

Further information

NFPA Classification : Health Hazard: 2

Fire Hazard: 0
Reactivity Hazard: 0



HMIS Classification : Health Hazard: 2

Flammability: 0

Physical and chemical hazards: 0

Other Emergency Phone Number

Latin America:	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
Mexico:		+52 555 004 87 63

MSDS Number: BIO_4500068

9 of 10

Version:	1.1
Revision Date:	12/05/2008
Print Date:	12/05/2008

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of the seller, it is the user's obligation to determine the conditions of safe use of the products.

MSDS Number: BIO_4500068 10 of 10