Version: 1.0 Revision Date: 05/09/2012 Print Date: 06/11/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BIOGUARD® OFF SEASON ARCTIC BLUE® SHOCK

Product Use Description: Recreational Water Product

Chemical nature: Chlorinated Isocyanurates

Company: Bio-Lab, Inc.

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

Telephone: (800) 859-7946

Emergency telephone

number:

CHEMTREC: (24 hours) 800-424-9300, 703-527-3887 Poison Control Center (Medical) :: (877) 800-5553

Chemtura Corporation Emergency Response: CHEMTURA: 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

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

(US) +1 866-430-2775

05/09/2012

MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

|--|

Form: granules <u>Colour</u>: blue <u>Odour</u>: Chlorine

Hazard Summary Corrosive

Oxidizer

Causes serious eye damage.

Harmful if swallowed.

Harmful if absorbed through skin. Avoid breathing dust or vapor. May be harmful if inhaled. Causes skin irritation.

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

OSHA Hazards

CORROSIVE OXIDIZER IRRITANT

SAP 6.0 1 / 11 SDS Number: 000000020144

BIOGUARD® OFF SEASON ARCTIC BLUE® SHOCK

Version: 1.0 Revision Date: 05/09/2012 Print Date: 06/11/2012

Potential Health Effects

Primary Routes of Entry : Skin contact

Eye contact Inhalation Ingestion

Aggravated Medical

: Respiratory disorders

Condition

Skin disorders

Inhalation : Causes respiratory tract irritation.

Skin : Causes skin irritation.

On contact with moisture, this material readily hydrolyzes to acid which may result

in burns if not promptly removed.

Eyes : Causes serious eye damage.

Ingestion : Harmful if swallowed.

Chronic Exposure : This product contains a boron compound. This boron compound when fed to test

animals at very high doses, has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in

this product does not represent a practical risk to man.

Carcinogenicity:

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcinogen

by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

ACGIH No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component / CAS-No.	Weight percent
Sodium Dichloro-S-Triazinetrione 2893-78-9	58.2 %
Trade secret 001	5 - 15 %
Boron salt	5 - 15 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Remove to fresh air.

If person is not breathing, call 911 or an ambulance, then give artificial

SAP 6.0 2 / 11 SDS Number: 000000020144

Revision Date: 05/09/2012 Version: 1.0 Print Date: 06/11/2012

> respiration, preferably mouth-to-mouth, if possible. Call a POISON CENTER or doctor/ physician.

Remove contaminated clothing and shoes. Skin contact

Rinse immediately with plenty of water for at least 30 minutes.

Call a POISON CENTER or doctor/ physician.

Eye contact : Rinse immediately with plenty of water for at least 30 minutes.

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

Get medical attention immediately.

Call a physician or poison control centre immediately. Ingestion

DO NOT induce vomiting unless directed to do so by a physician or poison

control center.

Never give anything by mouth to an unconscious person.

Notes to physician

Treatment : Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point : Remarks: not applicable

Fire fighting

Suitable extinguishing media : Flood with large volumes of water.

Unsuitable extinguishing

media

: ABC powder Dry powder

Risk of violent reaction.

Further information : When ignited, will burn with the evolution of noxious chlorine containing gases.

Do not let fire burn.

Protective equipment and precautions for firefighters

Specific hazards during

firefighting

: Under extreme heat (greater than 400F), this product will evolve noxious chlorine

containing gases.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Thoroughly decontaminate fire fighting equipment including all fire fighting

wearing apparel after the incident.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Methods for containment / Methods for cleaning up

Clean-up methods - large spillage

Using appropriate protective clothing and safety equipment, contain spilled

material.

Do not add water to spilled material.

Using clean dedicated equipment, sweep and scoop all spilled material,

3/11**SAP 6.0** SDS Number: 000000020144

Version: 1.0 Revision Date: 05/09/2012 Print Date: 06/11/2012

contaminated soil, and other contaminated material and place into clean dry

containers for disposal.

Do not close containers containing wet or damp material. They should be left

open to disperse any hazardous gases that may form.

Clean-up methods - small spillage

In case of spills, scoop up and place product in pool or spa water, then flood

spilled area with large volumes of water.

Additional advice : Do not use floor sweeping compounds to clean up spills.

Do not transport wet or damp material.

Treat recovered material as described in the section "Disposal considerations". Do not contaminate water, food or feed by storage or disposal or cleaning of

equipment.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Avoid contact with skin, eyes and clothing.

Avoid breathing dust. Avoid breathing vapors.

Contains a strong oxidizing agent. Do not mix with other chemicals.

Mix only with water.

Never add water to this product.

Always add product to large quantities of water.

Use only clean and dry utensils.

Do not add this product to any dispensing devices containing remnants of any other product. Such use may cause a violent reaction leading to fire or

explosion.

Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.

In case of contamination or decomposition, do not reseal container.

Flood with large volumes of water.

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

: Keep containers tightly closed in a dry, cool and well-ventilated place.

For bags: Store dry product in its original unopened bag until use. For partially

used bags, fold over top of bag and secure with adhesive tape.

For bottles: Store dry product in orginal tightly closed container when not in use.

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 /	Control	<u>Further information</u>
	Update	parameters	
Boron salt	TWA	10 mg/m3	

SAP 6.0 4 / 11 SDS Number: 000000020144

V	ersion: 1.0	Revision Date: 05/09/2012		Print Date: 06/11/2012
		OSHA P0		
		1989-01-19		
		TWA	2 mg/m3	
		ACGIH		
		2007-01-01		
		STEL	6 mg/m3	
		ACGIH		
		2007-01-01		
		TWA	1 mg/m3	
		NIOSH REL		
		2005-09-01		

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 : Wear rubber gloves.

Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2

requirements must be followed whenever workplace conditions warrant a

respirator's use.

Hygiene measures : Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : granules Colour : blue

Odour : Chlorine

Safety data

Flash point : Note: not applicable

pH : 5 - 5.5

Note: 1% Solution

Melting point/range : 522 °F (272 °C)

SAP 6.0 5 / 11 SDS Number: 000000020144

Version: 1.0 Revision Date: 05/09/2012 Print Date: 06/11/2012

Boiling point/boiling range : Note: not applicable

Vapour pressure : Note: no data available

Density : 1.0 g/cm3

Water solubility : 250 g/l

Relative vapour density : Note: no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.

Poor ventilation.
Contamination

Moisture/high humidity.

Materials to avoid : Remarks: Avoid contact with water on concentrated material in the

container. Avoid contact with easily oxidizable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; other swimming pool/spa chemicals in their concentrated form; alkalis. Avoid contact with all other

chemicals.

Hazardous decomposition

products

: Note: Chlorine containing gases can be produced.

nitrogen oxides (NOx)

Carbon oxides Sulphur oxides

Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Sodium Dichloro-S: Acute toxicity estimate: 500 mg/kg

Triazinetrione

Method: Converted acute toxicity point estimate

Trade secret 001 : LD50: > 5,000 mg/kg

Species: rat

Boron salt : LD50: 3,440 - 4,580 mg/kg

Species: rat

Acute inhalation toxicity

Sodium Dichloro-S- : LC50: 0.27 - 1.17 mg/l Triazinetrione : Exposure time: 4 h

Species: rat

Boron salt : LC50: 0.27 - 1.17 mg/l

Skin irritation

SAP 6.0 6 / 11 SDS Number: 000000020144

Version: 1.0 Revision Date: 05/09/2012 Print Date: 06/11/2012

Trade secret 001 : Result: No skin irritation

Eye irritation

Trade secret 001 : Result: Risk of serious damage to eyes.

12. ECOLOGICAL INFORMATION

Toxicity to fish

Trade secret 001 : LC50: 37 mg/l

Exposure time: 96 h

Species: Gambusia affinis (Mosquito fish)

static test LC50: 33.9 mg/l Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

flow-through test

Toxicity to daphnia and other aquatic invertebrates

Trade secret 001 : LC50: ca. 6.57 mg/l

Exposure time: 48 h

Boron salt : > 100 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae

Boron salt : > 100 mg/l

Exposure time: 72 h Species: Algae

Bioaccumulation

Trade secret 001 : Remarks:

Bioaccumulation is unlikely.

Further information on ecology

Additional ecological : Toxic to fish.

information Harmful to aquatic life.

Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Improper disposal of excess product, spray mixture or rinsate is a

violation of Federal Law.

If these wastes cannot be disposed of by use according to label instructions, contact your Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. For registered pesticides, contact your State

Pesticide Agency.

Do not put product, spilled product, or filled or partially filled

SAP 6.0 7 / 11 SDS Number: 000000020144

Version: 1.0 Revision Date: 05/09/2012 Print Date: 06/11/2012

containers into the trash or waste compactor.

Contact with incompatible materials could cause a reaction or fire.

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

Not dangerous goods

IATA

UN number : 1759

Description of the goods : Corrosive solid, n.o.s.

(SODIUM DICHLORO-S-TRIAZINETRIONE)

Class : 8
Packing group : II
Labels : 8
Environmentally hazardous : yes

IMDG

UN number : 1759

Description of the goods : CORROSIVE SOLID, N.O.S.

(SODIUM DICHLORO-S-TRIAZINETRIONE)

Class : 8
Packing group : II
EmS Number 1 : F-A
EmS Number 2 : S-B

Marine pollutant : yes

SODIUM DICHLORO-S-TRIAZINETRIONE

Environmentally hazardous : yes

SODIUM DICHLORO-S-TRIAZINETRIONE

Not recommended for shipment by air

Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG by road

and/or rail.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Corrosive, Oxidizer, Irritant

SARA 302 Reportable

Quantity

SARA 311/312 Hazards : Acute Health Hazard

Fire Hazard Reactivity Hazard

SARA 302 Reportable :

SAP 6.0 8 / 11 SDS Number: 000000020144

Version: 1.0 Revision Date: 05/09/2012 Print Date: 06/11/2012

Quantity

SARA 304 Components : This material does not contain any components with a section

304 EHS RQ.

Massachusetts Right To Know Components

: Sodium Dichloro-S-Triazinetrione 2893-78-9NFPA49 national

fire protection association 'hazardous chemicals data'

substances (NFPA 49).

sodium sulphate 7757-82-6Toxic chemical release

substances. 52 fr 21152 (6/4/87). Subject to SARA Title III.

aluminium sulfate 10043-01-3CERCLA hazardous

substances. 40 cfr part 302. May be subject to emergency

release notification under SARA Title III.

disodium tetraborate pentahydrate 12179-04-3OSHA a. United states occupational safety and health administration

substances, 29 cfr 1910.1000, sub part z.

Pennsylvania Right To Know Components

Sodium Dichloro-S-Triazinetrione 2893-78-9NFPA49 national

fire protection association 'hazardous chemicals data'

substances (NFPA 49).

sodium sulphate 7757-82-6Toxic chemical release substances. 52 fr 21152 (6/4/87). Subject to SARA Title III.

aluminium sulfate 10043-01-3CERCLA hazardous

substances. 40 cfr part 302. May be subject to emergency

release notification under SARA Title III.

disodium tetraborate pentahydrate 12179-04-3OSHA a. United states occupational safety and health administration

United States Occupational Safety and health adminis

substances, 29 cfr 1910.1000, sub part z.

New Jersey Right To Know Components

: Sodium Dichloro-S-Triazinetrione 2893-78-9 NFPA49 national fire protection association 'hazardous chemicals data'

substances (NFPA 49).

sodium sulphate 7757-82-6 Toxic chemical release

substances. 52 fr 21152 (6/4/87). Subject to SARA Title III.

aluminium sulfate 10043-01-3 CERCLA hazardous substances. 40 cfr part 302. May be subject to emergency

release notification under SARA Title III.

disodium tetraborate pentahydrate 12179-04-3 OSHA a. United states occupational safety and health administration

substances, 29 cfr 1910.1000, sub part z.

SAP 6.0 9 / 11 SDS Number: 000000020144

Version: 1.0 Revision Date: 05/09/2012 Print Date: 06/11/2012

California Prop. 65

Components

: This product does not contain any chemicals known to State of California to cause

cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA

Note: Listed

DSL This product contains the following components that are not on the Canadian DSL

nor NDSL lists.

AICS Not in compliance with the inventory

NZIoC On the inventory, or in compliance with the inventory

ENCS Not in compliance with the inventory

KECI Not in compliance with the inventory

PICCS On the inventory, or in compliance with the inventory

IECSC On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 3

Flammability: 0 Physical hazards: 1

PPI:Ask supervisor or safety specialist for handling instructions

 $\mathbf{SAP\,6.0} \hspace{1.5cm} \mathbf{10\,/\,11} \hspace{1.5cm} \mathbf{SDS\,Number:\,000000020144}$

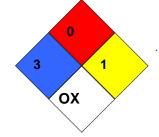
Version: 1.0 Revision Date: 05/09/2012 Print Date: 06/11/2012

NFPA Classification : Health hazard: 3

Fire Hazard: 0 Reactivity Hazard: 1

Specific hazards: OX Class 1

Oxidizer.



Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+52 555 004 8763

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.

SAP 6.0 11/11 SDS Number: 000000020144

BIOGUARD® ARCTIC BLUE® ALG PROTECT

Version: 1.0 Revision Date: 03/08/2011 Print Date: 06/11/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BIOGUARD® ARCTIC BLUE® ALG PROTECT

Product Use Description: Recreational Water Product

Company: Bio-Lab, Inc.

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

Telephone: (800) 859-7946

Emergency telephone

number:

CHEMTREC: (24 hours) 800-424-9300, 703-527-3887 Poison Control Center (Medical) :: (877) 800-5553

Chemtura Corporation Emergency Response: CHEMTURA: 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

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

(US) +1 866-430-2775

03/08/2011

+011-886-2-2712-5668 MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

•	٧.				
•	ેંગ્ર	11	Ŧ1	$\mathbf{\Omega}$	n
•				.,	

Form: liquid Colour: blue green Odour: mild acidic

Hazard Summary

Harmful if swallowed.

Irritating to eyes.

Avoid breathing vapors.

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

:

OSHA Hazards THIS MATERIAL IS HAZARDOUS UNDER THE CRITERIA OF THE

FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29CFR

1910.1200.

SAP 6.0 1 / 8 SDS Number: 000000006942

BIOGUARD® ARCTIC BLUE® ALG PROTECT

Version: 1.0 Revision Date: 03/08/2011 Print Date: 06/11/2012

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.	Weight percent
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 CENTER or doctor/ physician.

Skin contact : Remove contaminated clothing and shoes.

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

Call a POISON CENTER 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 CENTER 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.

SAP 6.0 2 / 8 SDS Number: 000000006942

BIOGUARD® ARCTIC BLUE® ALG PROTECT

Version: 1.0 Revision Date: 03/08/2011 Print Date: 06/11/2012

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : Remarks: not applicable

Fire fighting

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

surrounding environment.

Protective equipment and precautions for firefighters

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Thoroughly decontaminate fire fighting equipment including all fire fighting

wearing apparel after the incident.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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".

SECTION 7. HANDLING AND STORAGE

Handling

: Avoid contact with skin, eyes and clothing. Handling procedures

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.

SAP 6.0 3/8 SDS Number: 000000006942

BIOGUARD® ARCTIC BLUE® ALG PROTECT

Version: 1.0 Revision Date: 03/08/2011 Print Date: 06/11/2012

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	<u>Further information</u>
Trade Secret 020	C	2 mg/m3	
	ACGIH		
	2007-01-01		
	С	2 mg/m3	
	OSHA P0		
	1989-01-19		

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid Colour : blue green

Odour : mild

acidic

Safety data

Flash point : Note: not applicable

SAP 6.0 4 / 8 SDS Number: 000000006942

BIOGUARD® ARCTIC BLUE® ALG PROTECT

Version: 1.0 Revision Date: 03/08/2011 Print Date: 06/11/2012

pH : 2-3

Specific Gravity : 1.18 at

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.

Poor ventilation. Contamination

Materials to avoid : Remarks: Oxidizing agents

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

forms.

Hazardous decomposition

products

: Note: Carbon oxides

Copper oxides Sulphur oxides

Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 3,501 mg/kg

Species: rat

Acute inhalation toxicity

copper

:

Acute dermal toxicity : LD50: > 5,000 mg/kg

Species: rabbit

Skin irritation : Species: rabbit

Result: No skin irritation

Eye irritation : Remarks: Moderate eye irritation

Sensitisation

copper : Classification: Did not cause sensitization on laboratory animals.

CMR effects

copper : Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: Animal testing did not show any mutagenic effects.

Teratogenicity: No effects on or via lactation Reproductive toxicity: No toxicity to reproduction

SAP 6.0 5 / 8 SDS Number: 000000006942

BIOGUARD® ARCTIC BLUE® ALG PROTECT

Version: 1.0 Revision Date: 03/08/2011 Print Date: 06/11/2012

12. ECOLOGICAL INFORMATION

Further information on ecology

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

Description of the goods : Corrosive liquids, n.o.s.

: (Copper Sulfate)

Class : 8 Packing group : III ERG Code : 154

IATA

UN number : 1760

Description of the goods : Corrosive liquid, n.o.s.

(Copper Sulfate)

Class : 8 Packing group : III

IMDG

UN number : 1760

SAP 6.0 6 / 8 SDS Number: 000000006942

BIOGUARD® ARCTIC BLUE® ALG PROTECT

Version: 1.0 Revision Date: 03/08/2011 Print Date: 06/11/2012

Description of the goods : CORROSIVE LIQUID, N.O.S.

(Copper Sulfate)

Class : 8
Packing group : III
EmS Letter 1 : F-A
EmS Letter 2 : S-B

Marine pollutant : yes

Copper Sulfate

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

ORM-D Consumer Commodity exemption possible

Not regulated by DOT and TDG if shipped or transported in packaging less than 450

liters by road and/or rail.

SECTION 15. REGULATORY INFORMATION

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

Communication Standard 29CFR 1910.1200.

CERCLA Reportable

Quantity

: 78 lbs

copper sulphate 7758-98-7

SARA 311/312 Hazards : Acute Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

SARA 302 Reportable

Quantity

SARA 313 Components : Copper Sulfate 7758-98-7

SECTION 16. OTHER INFORMATION

Further information

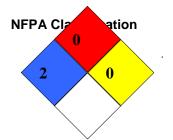
HMIS Classification : Health hazard: 2

Flammability: 0 Physical hazards: 0

SAP 6.0 7 / 8 SDS Number: 000000006942

BIOGUARD® ARCTIC BLUE® ALG PROTECT

Version: 1.0 Revision Date: 03/08/2011 Print Date: 06/11/2012



Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 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

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.

SAP 6.0 8 / 8 SDS Number: 000000006942