

Material Safety Data Sheet

BIOGUARD® ALGAE ALL 60™

Version: 1.2

Revision Date: 01/01/2014

Print Date: 03/05/2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *BIOGUARD® ALGAE ALL 60™*

Product Use Description: Recreational Water Product

Chemical nature: Preparation

Registration number: 5185-339

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
Customer Care: 800-998-7946

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

Prepared by Product Safety Department

01/01/2014

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Form: liquid Colour: clear light yellow Odour: mild

Hazard Summary : Harmful if swallowed.
May cause eye irritation.
May cause skin irritation.
May cause irritation of respiratory tract.
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.

Potential Health Effects

Primary Routes of Entry : Skin contact
Inhalation

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Ingestion
Eye contact

Inhalation : May cause irritation of respiratory tract.

Skin : May cause skin irritation.

Eyes : May cause eye irritation.

Ingestion : Harmful if swallowed.

Chronic Exposure : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

| Component / CAS-No. | Weight percent |
|---|----------------|
| Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethane diyl(dimethyliminio)-1,2-ethanediyl dichloride 31512-74-0 | 60 % |

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, also under the eyelids, for at least 15 minutes.
Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Call a POISON CENTER or doctor/ physician.

Ingestion : Immediately call a POISON CENTER or doctor/ physician.
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.
Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point : > 212 °F (> 100 °C)
Method: Tag closed cup

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Fire fighting

Suitable extinguishing media : Dry chemical
Water
Foam
Carbon dioxide (CO₂)
Keep containers and surroundings cool with water spray.

Further information : There are no unusual fire and explosion hazards known.

Protective equipment and precautions for firefighters

Special protective equipment for firefighters : 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

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

Handling procedures : Avoid contact with skin, eyes and clothing.
Avoid breathing vapors.
Mix only with water.
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.
Keep container closed when not in use.
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

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Engineering measures

Engineering measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Use with adequate ventilation.

Personal protective equipment

Eye protection : Goggles
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 : liquid
Colour : clear
light yellow

Odour : mild

Safety data

Flash point : > 212 °F (> 100 °C)
Method: Tag closed cup

pH : 6 - 8
Note: (undiluted)

Freezing point : < 3 °F (-16 °C)

Boiling point/boiling range : > 212 °F (100 °C)

Vapour pressure : no data available

Density : 1.15 g/cm³

Water solubility : Note: soluble

Partition coefficient: n-octanol/water : Note: no data available

Viscosity, kinematic : Note: no data available

Relative vapour density : Note: no data available

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SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid : Remarks: High temperatures.
Poor ventilation.
Contamination
- Materials to avoid : Remarks: Do not mix with other swimming pool/spa chemicals in their concentrated forms.
Anionic polymers
- Hazardous decomposition products : Note: Carbon oxides
- Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50: 1,951 mg/kg
Species: rat
- : LD50: 2,587 mg/kg
Species: rat
- Acute inhalation toxicity : LC50: Exposure time: 4 h
Species: rat
- Acute dermal toxicity : LD50: > 2,000 mg/kg
Species: rabbit
- Skin irritation : Remarks: May cause skin irritation.
- Eye irritation : Remarks: May cause eye irritation.
- Sensitisation : Remarks: This product is not expected to be a skin sensitizer.
- Toxicology Assessment**
- CMR effects : Mutagenicity:
Mutagenicity studies were negative.

12. ECOLOGICAL INFORMATION

Further information on ecology

- Additional ecological information : Toxic to fish.
Toxic to aquatic organisms.
Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in

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accordance with the requirements of the 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 : 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.
- 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 : 3082
Description of the goods : Environmentally hazardous substances, liquid, n.o.s.
(Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethane diyl(dimethyliminio)-1,2-ethanediyl dichloride)
- Class : 9
Packing group : III
ERG Code : 171

IATA

- UN number : 3082
Description of the goods : Environmentally hazardous substance, liquid, n.o.s.
(Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethane diyl(dimethyliminio)-1,2-ethanediyl dichloride)
- Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IMDG

- UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethane diyl(dimethyliminio)-1,2-ethanediyl dichloride)
- Class : 9
Packing group : III
EmS Number 1 : F-A

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EmS Number 2 : S-F

Marine pollutant : yes
Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethane
diyl(dimethyliminio)-1,2-ethanediyl dichloride

Environmentally hazardous : yes
Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethane
diyl(dimethyliminio)-1,2-ethanediyl dichloride

Not recommended for shipment by air
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.

SARA 311/312 Hazards : Acute Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

**SARA 302 Reportable
Quantity** :

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

TSCA

Note: Listed

US.TSCA

Not On TSCA Inventory

DSL

This product contains one or several components that are not on the Canadian DSL
nor NDSL lists.

AICS

Not in compliance with the inventory

NZIoC

Not in compliance with the inventory

ENCS

Not in compliance with the inventory

KECI

Not in compliance with the inventory

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PICCS Not in compliance with the inventory

IECSC Not in compliance with the inventory

TSCA list Information US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
ZUS T12B

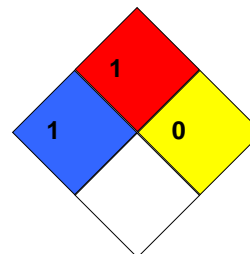
Not relevant

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 1
Flammability: 1
Physical hazards: 0
PPI: Ask supervisor or safety specialist for handling instructions

NFPA Classification : Health hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0



Other Emergency Phone Number

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

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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.