

# Material Safety Data Sheet

## BIOGUARD® SUPER SOLUBLE

Version: 1.5

Revision Date: 01/23/2014

Print Date: 03/05/2014

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *BIOGUARD® SUPER SOLUBLE*

Product Use Description: Recreational Water Product

Chemical nature: Chlorinated Isocyanurates

: Preparation

Registration number: 5185-441

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

01/23/2014

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### **Danger**

Form: granules      Colour: white      Odour: Chlorine

Hazard Summary : Corrosive  
Oxidizer  
Causes serious eye damage.  
Harmful if absorbed through skin.  
May be fatal if inhaled.  
Causes respiratory tract irritation.  
Harmful if swallowed.  
Avoid breathing dust or vapor.  
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.

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### Potential Health Effects

- Primary Routes of Entry : Eye contact  
Skin contact  
Inhalation  
Ingestion
- Aggravated Medical Condition : Respiratory disorders  
Skin disorders
- Inhalation : May be fatal if inhaled.  
Causes respiratory tract irritation.
- Skin : Harmful if absorbed through skin.  
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 : None known.
- Symptoms of Overexposure : irritant effects

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component / CAS-No.	Weight percent
Sodium dichloro-s-triazinetrione dihydrate 51580-86-0	>= 99 %

### SECTION 4. FIRST AID MEASURES

#### First aid procedures

- Inhalation : Remove to fresh air.  
Call a physician or poison control centre immediately.
- Skin contact : Remove contaminated clothing and shoes.  
Rinse immediately with plenty of water for at least 15 minutes.  
Call a physician or poison control centre immediately.
- 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 physician or poison control centre immediately.
- Ingestion : Call a physician or poison control centre immediately.  
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

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doctor.  
Never give anything by mouth to an unconscious person.

### Notes to physician

Symptoms : irritant effects  
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 chemical  
Risk of violent reaction.

Further information : This product, if heated by an outside source to temperatures above 240 C (464 F), will undergo vigorous self-sustaining decomposition with the evolution of heat and dense noxious gases.  
When ignited, will burn with the evolution of noxious chlorine containing gases.  
Do not let fire burn.  
Nitrogen trichloride can be generated slowly by the reaction of small quantities of water with a high concentration of this product. Nitrogen trichloride can present an explosion hazard. Immediately after a fire has been extinguished, check for wet or damp material. Any spilled material from burned or broken containers should be assumed contaminated. Neutralize to a non-oxidizing material for safe disposal. Do not attempt to re-close broken containers, even for movement to the disposal area. They should be left open to disperse any nitrogen trichloride that may form. Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. If the plastic liner (where applicable) of the container is damaged or the material is damp, the material should be chemically treated if allowable, to a non-oxidizing material for safe disposal. Bulging containers require extreme care. Contact the fire department.

### Protective equipment and precautions for firefighters

Specific hazards during firefighting : Burning produces noxious and toxic fumes.  
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

Personal precautions : Ensure adequate ventilation.  
Use personal protective equipment.  
Environmental precautions : Do not flush into surface water or sanitary sewer system.

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- Methods for containment /  
Methods for cleaning up : 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, 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.
- 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".

### SECTION 7. HANDLING AND STORAGE

#### Handling

- Handling procedures : Avoid contact with skin, eyes and clothing.  
Avoid breathing dust.  
Avoid breathing vapors.  
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 will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.  
In case of contamination or decomposition, do not reseal container.  
If possible, isolate container in open air or well-ventilated area.  
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 : Store in original container.  
Temperature not to exceed 52 C (125F) for 24 hours.  
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

#### Engineering measures

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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 : granules  
Colour : white

Odour : Chlorine

##### Safety data

Flash point : Note: not applicable

pH : 6 - 7  
at  
77 °F (25 °C)  
Note: 1% Solution

Melting point/range : 464 - 482 °F (240 - 250 °C)  
Note: Decomposes

Boiling point/boiling range : Note: not applicable

Vapour pressure : no data available

Density : 0.897 - 0.961 g/cm<sup>3</sup>

Water solubility : 280 g/l  
Note: no data available

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

Viscosity, kinematic : Note: not applicable

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  
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.  
Thermal decomposition : 240 - 250 °C
- Hazardous reactions : Hazardous polymerisation does not occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50: 1,823 mg/kg  
Species: rat
- Acute inhalation toxicity : Remarks: Direct contact with wet material or moist skin may cause severe irritation, pain and possibly burns.
- Acute dermal toxicity : LD50: > 5,000 mg/kg  
Species: rat
- Skin irritation : Species: rabbit  
Remarks: Direct contact with wet material or moist skin may cause severe irritation, pain and possibly burns.
- Eye irritation : Remarks: Causes serious eye damage.
- Sensitisation : Remarks: This product is not expected to be a skin sensitizer.
- Aspiration toxicity : No aspiration toxicity classification

#### Toxicology Assessment

- CMR effects : Carcinogenicity:  
Not classified due to lack of data.  
Mutagenicity:  
Not classified due to lack of data.  
Reproductive toxicity:  
Not classified due to lack of data.

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity effects

Toxicity to fish :  
Remarks:  
no data available

Toxicity to daphnia and other : Remarks:  
aquatic invertebrates no data available

#### Elimination information (persistence and degradability)

Bioaccumulation : Remarks:  
no data available

Mobility : Remarks:  
no data available

Biodegradability : Result: no data available

#### Further information on ecology

##### Ecotoxicology Assessment

##### Results of PBT assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

Additional ecological : Toxic to fish.  
information Toxic to aquatic organisms.  
Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in 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 : Dispose of waste material in compliance with all federal, state, and local regulations.  
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 contaminate ponds, waterways or ditches with chemical or used container.  
Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.  
Contact with incompatible materials could cause a reaction or fire.

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Improper disposal of excess product, spray mixture or rinsate is a violation of Federal Law.

Contaminated packaging : Do not re-use empty containers.  
Rinse thoroughly before discarding in trash.

### SECTION 14. TRANSPORT INFORMATION

#### DOT

UN number : 3077  
Description of the goods : Environmentally hazardous substances, solid, n.o.s.  
(sodium dichloro-s-triazinetrione dihydrate)  
Class : 9  
Packing group : III  
ERG Code : 171

#### IATA

UN number : 3077  
Description of the goods : Environmentally hazardous substance, solid, n.o.s.  
(sodium dichloro-s-triazinetrione dihydrate)  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

#### IMDG

UN number : 3077  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(sodium dichloro-s-triazinetrione dihydrate)  
Class : 9  
Packing group : III  
EmS Number 1 : F-A  
EmS Number 2 : S-F  
Marine pollutant : yes  
sodium dichloro-s-triazinetrione dihydrate  
Environmentally hazardous : yes  
sodium dichloro-s-triazinetrione dihydrate

Not recommended for shipment by air  
Limited Quantity exemption possible  
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** : This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.



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**SARA 311/312 Hazards** : Fire Hazard  
Reactivity Hazard  
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

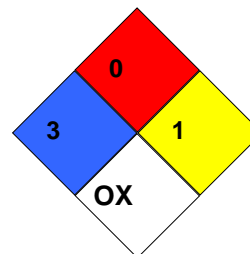
Note: Listed

## 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

**NFPA Classification** : Health hazard: 3  
Fire Hazard: 0  
Reactivity Hazard: 1  
Specific hazards: OX Class 1  
Oxidizer.



Other Emergency Phone Number

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<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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