

# Material Safety Data Sheet

## BIOGUARD® SOFTSWIM® CLARIFIER

Version: 1.2

Revision Date: 01/01/2014

Print Date: 03/05/2014

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *BIOGUARD® SOFTSWIM® CLARIFIER*

Product Use Description: Recreational Water Product

Synonyms: Hydrogen peroxide solution

Chemical nature: Inorganic peroxide

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

#### **Danger**

Form: liquid      Colour: colourless      Odour: slight pungent

Hazard Summary : Corrosive  
Strong oxidizing agent.  
Harmful or fatal if swallowed.  
Causes serious eye damage.  
Causes skin burns.  
Do not breathe vapour.  
Causes respiratory tract irritation.  
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

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Primary Routes of Entry : Skin contact  
Eye contact  
Ingestion  
Inhalation

Aggravated Medical Condition : Respiratory disorders  
Skin disorders

Inhalation : Causes respiratory tract irritation.

Skin : Causes skin burns.

Eyes : Causes serious eye damage.  
May cause blindness.

Ingestion : Harmful or fatal if swallowed.

Chronic Exposure : None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component / CAS-No.	Weight percent
hydrogen peroxide 7722-84-1	27.5 %

### SECTION 4. FIRST AID MEASURES

#### First aid procedures

Inhalation : Remove to fresh air.  
Give oxygen or artificial respiration if needed.  
Call a physician if irritation develops or persists.

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 : Call a physician or poison control centre immediately.  
Have person sip a glass of water if able to swallow.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
Do not give anything by mouth to a convulsing or unconscious person.

#### Notes to physician

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

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### SECTION 5. FIREFIGHTING MEASURES

#### Flammable properties

Flash point : Remarks: Non-Flammable

Lower explosion limit : Remarks: no data available

Upper explosion limit : Remarks: no data available

#### Fire fighting

Suitable extinguishing media : Flood with large volumes of water.

Unsuitable extinguishing media : ABC powder  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)

Further information : Contact with combustible material may cause fire.  
When in contact with other combustible materials, this product may increase the burning rate of the combustible material.

#### 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

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.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal.  
After cleaning, flush away traces with water.

Additional advice : Do not use floor sweeping compounds to clean up spills.  
Treat recovered material as described in the section "Disposal considerations".

### SECTION 7. HANDLING AND STORAGE

#### Handling

Handling procedures : Strong oxidizing agent.  
Avoid contact with skin, eyes and clothing.  
Do not breathe vapours/dust.  
Drying of this product on clothing or combustible materials may cause fire.  
Do not mix with other chemicals.

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Mix only with water.  
Always add product to large quantities of water.  
Use only clean and dry utensils.  
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.  
Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

Advice on protection against fire and explosion : Keep away from combustible material.  
Avoid letting the product become dry.

### Storage

Requirements for storage areas and containers : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
In case of decomposition, isolate container if possible and flood area with large amounts of water to dissolve all material before discarding this container.  
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
hydrogen peroxide 7722-84-1	TWA ACGIH 2007-01-01	1 ppm	
	TWA OSHA Z-1 1997-08-04	1 ppm 1.4 mg/m <sup>3</sup>	
	TWA OSHA P0 1989-01-19	1 ppm 1.4 mg/m <sup>3</sup>	
	TWA NIOSH REL 2005-09-01	1 ppm 1.4 mg/m <sup>3</sup>	

### Engineering measures

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

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location.

### 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 : Clothing may ignite and burn fiercely if product dries out.  
Remove and wash contaminated clothing before re-use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

- Form : liquid
- Colour : colourless
- Odour : slight  
pungent

### Safety data

- Flash point : Note: Non-Flammable
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available
- Oxidizing properties : Note: Oxidizer
- pH : < 3
- Freezing point : -8 °F (-22 °C)
- Boiling point/boiling range : 221 °F (105 °C)
- Vapour pressure : no data available
- Specific Gravity : 1.12 at 20 °C
- Water solubility : Note: completely soluble
- Partition coefficient: n-octanol/water : Note: no data available
- Viscosity, kinematic : Note: no data available
- Relative vapour density : ca.0.6

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### SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid : Remarks: High temperatures.  
Poor ventilation.  
Contamination
- Materials to avoid : Remarks: Bases  
Metals  
Reducing agents  
Acids  
Combustible material  
Organic materials  
Do not mix with other chemicals.  
Do not mix with other swimming pool/spa chemicals in their concentrated forms.
- Hazardous decomposition products : Note: Oxygen
- Hazardous reactions : Hazardous polymerisation does not occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50: 800 mg/kg  
Species: rat
- Acute inhalation toxicity : Remarks: Direct contact with wet material or moist skin may cause severe irritation, pain and possibly burns.
- Skin irritation : Species: rabbit  
Result: Primary Irritation Index (PII) = 6.1  
Classification: Corrosive  
Remarks: Causes skin burns.
- Eye irritation : Species: rabbit  
Classification: Corrosive  
Remarks: Causes serious eye damage.

### 12. ECOLOGICAL INFORMATION

#### Further information on ecology

- Additional ecological information : Toxic to fish.  
Toxic to aquatic organisms.

### SECTION 13. DISPOSAL CONSIDERATIONS

- Further information : 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

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Pesticide Agency.  
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.

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 : 2014  
Description of the goods : Hydrogen, peroxide, aqueous solutions  
Class : 5.1 (8)  
Packing group : II  
ERG Code : 140

#### IMDG

UN number : 2014  
Description of the goods : HYDROGEN PEROXIDE, AQUEOUS SOLUTION  
Class : 5.1 (8)  
Packing group : II  
EmS Number 1 : F-H  
EmS Number 2 : S-Q

Marine pollutant : yes  
Hydrogen peroxide (H2O2)  
Environmentally hazardous : yes  
Hydrogen peroxide (H2O2)

Not recommended for shipment by air  
Limited Quantity 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.

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

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

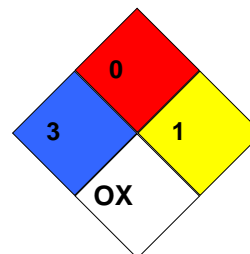
<b>US.TSCA</b>	On TSCA Inventory
<b>DSL</b>	All components of this product are on the Canadian DSL list.
<b>AICS</b>	On the inventory, or in compliance with the inventory
<b>NZIoC</b>	On the inventory, or in compliance with the inventory
<b>ENCS</b>	On the inventory, or in compliance with the inventory
<b>KECI</b>	On the inventory, or in compliance with the inventory
<b>PICCS</b>	On the inventory, or in compliance with the inventory
<b>IECSC</b>	On the inventory, or in compliance with the inventory
<b>TSCA list Information</b>	<u>US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)</u> <u>ZUS T12B</u>  <u>Not relevant</u>

### SECTION 16. OTHER INFORMATION

#### Further information

**HMIS Classification** : Health hazard: 3  
Flammability: 0  
Reactivity: 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.





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### 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

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.