

Material Safety Data Sheet

BIOGUARD® OXYSHEEN®

Version: 1.2

Revision Date: 01/01/2014

Print Date: 03/05/2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *BIOGUARD® OXYSHEEN®*

Product Use Description: Swimming Pool Product

Chemical nature: Peroxygen salt

Registration number: 5185-50034

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: granules Colour: white Odour: odourless

Hazard Summary : Corrosive
Causes eye burns.
Causes skin burns.
Causes respiratory tract irritation.
Harmful if swallowed.
Do not get in eyes, on skin, or on clothing.
Avoid breathing dust or vapor.
Avoid contact with mucous membranes.

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 Inhalation Ingestion Eye contact
Aggravated Medical Condition	: Respiratory disorders Skin disorders
Inhalation	: Causes respiratory tract irritation. May cause nosebleeds and irritation of upper respiratory passages, with coughing and discomfort.
Skin	: Causes skin burns.
Eyes	: Causes eye burns.
Ingestion	: Harmful if swallowed.
Chronic Exposure	: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component / CAS-No.	Weight percent
potassium hydrogenperoxomonosulphate 10058-23-8	40 - 70 %
potassium hydrogensulphate 7646-93-7	10 - 30 %
potassium sulfate (Aerosol) 7778-80-5	15 - 40 %
dipotassium peroxodisulphate (Dust) 7727-21-1	1 - 5 %
magnesium carbonate 546-93-0	1 - 5 %

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 respiration, preferably mouth-to-mouth, if possible. 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. If skin irritation occurs, seek medical advice/attention.
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.

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

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point : Remarks: not applicable

Fire fighting

Suitable extinguishing media : Water

Further information : On decomposition releases oxygen which may intensify fire.

Protective equipment and precautions for firefighters

Specific hazards during firefighting : Acidic mist may be present.

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.
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 dust.
Avoid breathing vapors.
Do not mix with other chemicals.
Never add water to this product.
Always add product to large quantities of water.
Do not place this product in skimmer basket, pump pot, brominator, or chlorinator.
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.

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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.
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.
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
dipotassium peroxodisulphate (Dust) 7727-21-1	TWA ACGIH 2007-01-01	0.1 mg/m ³	
magnesium carbonate 546-93-0	TWA OSHA Z-1 2007-01-01	15 mg/m ³	
	TWA OSHA Z-1 2007-01-01	5 mg/m ³	
	TWA OSHA P0 1989-01-19	15 mg/m ³	
	TWA OSHA P0 1989-01-19	5 mg/m ³	
	TWA NIOSH REL 2005-09-01	5 mg/m ³	
	TWA NIOSH REL 2005-09-01	10 mg/m ³	

Engineering measures

Engineering measures : Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet.

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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 : white

Odour : odourless

Safety data

Flash point : Note: not applicable

pH : 2.3
Note: 1% Solution

Freezing point : Note: no data available

Melting point/range : Note: no data available

Boiling point/boiling range : Note: no data available

Vapour pressure : negligible

Density : 1.1 - 1.4 g/cm³

Water solubility : 256 g/l
at 68 °F (20 °C)

Note: no data available

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

Viscosity, kinematic : Note: not applicable

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.

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Poor ventilation.
Contamination
Moisture/high humidity.

Materials to avoid : Remarks: 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: 2,000 mg/kg
Species: rat

Acute inhalation toxicity : LC50: > 5 mg/l
Exposure time: 4 h
Species: rat

Acute dermal toxicity : > 11,000 mg/kg
Species: rabbit

Skin irritation : Remarks: corrosive effects

Eye irritation : Remarks: Corrosive

Sensitisation : Remarks: This product is not expected to be a skin sensitizer.

Toxicology Assessment

CMR effects : Mutagenicity:
In vitro tests did not show mutagenic effects

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50: 53 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates : EC50: 3.5 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

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Toxicity to algae
potassium sulfate (Aerosol) : EC50: 2,900 mg/l
Exposure time: 72 h
Species: Green algae (*Scenedesmus subspicatus*)

Further information on ecology

Additional ecological information : May be toxic to fish.
May be toxic to aquatic organisms.
Do not allow material to contaminate ground water system.
Do not flush into surface water or sanitary sewer system.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local regulations.
Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.

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

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3260
Description of the goods : Corrosive solid, acidic, inorganic, n.o.s.
(Monopersulfate compound)
Class : 8
Packing group : II
ERG Code : 154

IATA

UN number : 3260
Description of the goods : Corrosive solid, acidic, inorganic, n.o.s.
(Monopersulfate compound)
Class : 8
Packing group : II
Labels : 8
Environmentally hazardous : no

IMDG

UN number : 3260
Description of the goods : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(Monopersulfate compound)
Class : 8
Packing group : II
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : no
Environmentally hazardous : no

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

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 : Reactivity Hazard
Acute Health Hazard

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

US.TSCA On TSCA Inventory

DSL All components of this product are on the Canadian DSL list.

AICS On the inventory, or in compliance with the inventory

NZIoC On the inventory, or in compliance with the inventory

ENCS On the inventory, or in compliance with the inventory

KECI On the inventory, or 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

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: 3
Flammability: 0
Physical hazards: 1
PPI:Ask supervisor or safety specialist for handling instructions

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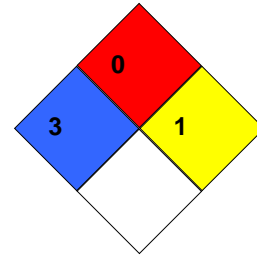
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NFPA Classification : Health hazard: 3
Fire Hazard: 0
Reactivity Hazard: 1



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.