The recipient of this Safety Data Sheet is urged to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information on this sheet,(2) furnish a copy to each of your customers for the product, and (3) request your customers to inform their employees and customers as well.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BioGuard® Maintain Oxysheen®

Product Use Description: Swimming Pool Product

Chemical nature: Peroxygen salt

Registration number: CALIFORNIA REG. 5185-50006

Company:

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

Emergency telephone:

CHEMTREC (US Transportation) :
(800) 424-9300
(703) 527-3887
Poison Control Center (Medical) :
(877) 800-5553

Customer Service: (800) 859-7946

Prepared by:

Product Safety Department
(US) +1 866-430-2775
(EU) +44 (0) 1753.603.000
Email: MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER!

Form: granules
Colour: white
Odour: Odorless

Corrosive
Causes eye burns.
Causes skin burns.
Causes respiratory tract irritation.
Harmful if swallowed.

OSHA Hazards:
THIS MATERIAL IS HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200.

Do not get in eyes, on skin, or on clothing.
Avoid breathing dust or vapor.
Avoid contact with mucous membranes.

Potential Health Effects

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.	Concentration
potassium hydrogenperoxomonosulphate	10058-23-8	42.8 %
potassium hydrogensulphate	7646-93-7	23 %
potassium sulfate	7778-80-5	29 %
dipotassium peroxodisulphate	7727-21-1	3 %
magnesium carbonate	546-93-0	2 %

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 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 doctor. Do not give anything by mouth to an unconscious person.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

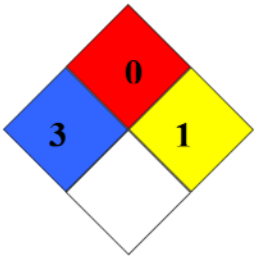
Flash point	:	not applicable

Protective equipment and precautions for firefighters

Suitable extinguishing media	:	Water
Hazardous decomposition products	:	Oxygen
Further information	:	On decomposition releases oxygen which may intensify fire.
Specific hazards during fire fighting	:	Acidic mist may be present.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

Further information

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



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

Advice on safe handling : Avoid contact with skin, eyes and clothing.
Avoid breathing dust.
Avoid breathing vapors.
Do not mix with other chemicals.
May cause fire or explosion; strong oxidizer.
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.

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 7727-21-1	TWA ; ACGIH 1996-05-18	0.1 mg/m3	1996 Adoption

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value - Basis - Update	Control parameters	Further information
magnesium carbonate 546-93-0	TWA ; OSHA PO 1989-03-01	15 mg/m3	Total dust
magnesium carbonate 546-93-0	TWA ; OSHA PO 1989-03-01	5 mg/m3	respirable dust fraction
magnesium carbonate 546-93-0	TWA ; OSHA P1 1993-06-30	15 mg/m3	Total dust
magnesium carbonate 546-93-0	TWA ; OSHA P1 1993-06-30	5 mg/m3	respirable dust fraction

Engineering measures

Engineering measures : Use ventilation adequate to keep exposures below recommended exposure limits. See MSDS.
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 : Odorless

Safety data

Flash point : not applicable

pH : 2.3
1% Solution

Freezing point : Not Available

Melting point/range		Not Available
Boiling point/boiling range	:	Not Available
Vapour pressure	:	Nil
Relative density	:	1.1 - 1.4
Water solubility	:	256 g/l at 68 °F (20 °C)
Relative vapour density	:	Non Volatile

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	:	High temperatures. Poor ventilation. Contamination Moisture/high humidity.
Materials to avoid	:	Do not mix with other swimming pool/spa chemicals in their concentrated forms.
Hazardous decomposition products	:	Oxygen
Hazardous reactions	:	Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 rat Dose: 2,000 mg/kg
Acute dermal toxicity	:	rabbit Dose: > 11,000 mg/kg
Acute inhalation toxicity	:	LC50 rat Exposure time: 4 h Dose: > 5 mg/l
Skin irritation	:	Classification: Corrosive
Eye irritation	:	Corrosive
Sensitisation	:	This product is not expected to be a skin sensitizer.

:

Mutagenicity
In vitro tests did not show mutagenic effects

SECTION 12. ECOLOGICAL INFORMATION

Acute Fish toxicity : LC50
Species: Oncorhynchus mykiss (rainbow trout)
Concentration: 53.00 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates. :
EC50
Species: Daphnia magna (Water flea)
Concentration: 3.50 mg/l
Exposure time: 48 h

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.
Neutralise with the following product(s):
soda ash

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

SECTION 14. TRANSPORT INFORMATION

DOT
UN-Number : 3260
Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s.
Proper technical name (monopersulfate compound)
Class : 8
Packing group : II

IATA
UN-Number : 3260
Proper shipping name : Corrosive solid, acidic, inorganic n.o.s.

	Proper technical name		(monopersulfate compound)
	Class	:	8
	Packing group	:	II
IMDG	UN-Number	:	3260
	Proper shipping name	:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
	Proper technical name		(monopersulfate compound)
	Class	:	8
	Packing group	:	II

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

SECTION 15. REGULATORY INFORMATION

National regulatory information

OSHA Hazards : This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SARA Hazard category : Reactivity Hazard
Acute Health Hazard

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

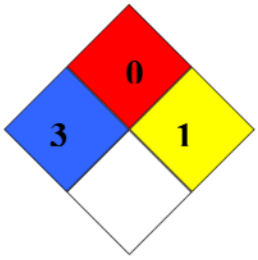
Additional advice :

FIFRA (Federal Insecticide, Fungicide, Rodenticide Act): This product is not a registered pesticide.

SECTION 16. OTHER INFORMATION

Further information

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



HMIS Classification : Health Hazard: 3
Flammability: 0
Physical and chemical hazards: 1
PPI:Ask supervisor or safety specialist for handling instructions

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. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of the seller, it is the user's obligation to determine the conditions of safe use of the products.