# SAFETY DATA SHEET

Revision Date 26-May-2015 Version 1

# 1. IDENTIFICATION

Product identifier

Product Name BIOGUARD INHIBIT OPTIMIZER PLUS

Other means of identification

Product Code 52224BIO

Recommended use of the chemical and restrictions on use
Recommended Use Swimming Pool Product.
Uses advised against Do not mix with other chemicals

Details of the supplier of the safety data sheet

Supplier Address Bio-Lab, Inc. P.O. Box 300002 Lawrenceville, GA 30049-1002 Telephone 800-859-7946

Emergency telephone number

Emergency Telephone Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

Poison Control Center (Medical): (877) 800-5553

# 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 2

### Label elements

# **Emergency Overview**

### Warning

#### Hazard statements

Causes serious eye irritation

Suspected of damaging fertility or the unborn child



Color white Physical state Solid Odor Odorless

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

1% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical Name	CAS No.	Weight-%
Boron sodium oxide (B4Na2O7), pentahydrate	12179-04-3	>99*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

# **Description of first aid measures**

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Skin contact** Wash off immediately with plenty of water. If symptoms persist, call a physician.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink

plenty of water. Call a physician.

Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

# Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None known.

#### Specific hazards arising from the chemical

Product is not flammable, combustible or explosive.

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

spill/leak.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading and keep powder dry.

Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp

to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children.

Incompatible materials Strong reducing agents. Do not mix with other swimming pool/spa chemicals in their

concentrated forms.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	STEL: 6 mg/m³ inhalable fraction TWA: 2 mg/m³ inhalable fraction	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 1 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Appropriate engineering controls** 

Showers **Engineering Controls** 

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Not required under normal use. Rubber gloves. Skin and body protection

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Solid crystalline **Appearance** Odor Odorless

Color white Odor threshold No information available

**Property** Values Remarks • Method 9.23 (3.5% solution)

No information available

Melting point/freezing point No information available Boiling point / boiling range No information available Flash point No information available **Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available **Specific Gravity** No information available

Water solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available No information available Kinematic viscosity No information available Dynamic viscosity **Density** No information available **Bulk density** No information available **Explosive properties** No information available **Oxidizing properties** 

**Other Information** 

No information available Softening point Molecular weight No information available **VOC Content (%)** No information available

# 10. STABILITY AND REACTIVITY

Reactivity

No data available

**Chemical stability** 

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** 

None under normal processing.

Conditions to avoid

Protect from moisture. Extremes of temperature and direct sunlight.

Incompatible materials

Strong reducing agents. Do not mix with other swimming pool/spa chemicals in their concentrated forms.

**Hazardous Decomposition Products** 

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.

Eye contact Irritating to eyes.

**Skin contact** Not expected to cause skin irritation under normal use conditions.

**Ingestion**No adverse health effects anticipated from ingestion of incidental amounts of product.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Boron sodium oxide (B4Na2O7),	= 2403 mg/kg (Rat)	-	-
pentahydrate			
12179-04-3			

# Information on toxicological effects

**Symptoms** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

**Reproductive toxicity**This product contains a boron compound. This boron compound when fed to test animals

at very high doses has shown reproductive and developmental toxicity. When this product

is used according to label directions, the boron compound in this product does not

represent a practical risk to humans.

STOT - single exposure
STOT - repeated exposure
Target Organ Effects
Aspiration hazard
No information available.
No information available.
Eyes, Respiratory system, Skin.
No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 2427 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

#### **Mobility**

No information available.

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container. Refer to all federal, state and local regulations prior to disposal of

container and unused contents by reuse, recycle or disposal.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Acute health hazardYesChronic Health HazardYesFire hazardNoSudden release of pressure hazardNoReactive HazardNo

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40

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CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Boron sodium oxide (B4Na2O7),	-	X	-
pentahydrate			
12179-04-3			

#### **U.S. EPA Label Information**

#### **EPA Pesticide Registration Number** 5185-461

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### Difference between SDS and EPA Pesticide label

WARNING: Causes substantial but temporary eye injury. Harmful if swallowed. Irritating to nose and throat. Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wear protective eyewear (goggles or safety glasses) and rubber gloves when handling this product. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and Chemical

Properties -

**HMIS** Health hazards 1\* Flammability 0 Physical hazards 0 Personal protection X

Prepared By Regulatory Affairs Revision Date Regulatory 26-May-2015

Revision Note No information available

Disclaimer

The information provided in this Material 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.

**End of Safety Data Sheet**