# SAFETY DATA SHEET

Revision Date 12-Jun-2015 Version 1

### 1. IDENTIFICATION

Product identifier

**Product Name** BIOGUARD® INHIBIT BACK UP 2®

Other means of identification

**Product Code** 23050BIO UN/ID no. UN1760

Recommended use of the chemical and restrictions on use Recommended Use Swimming pool algaecide. 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)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Flammable liquids	Category 4

#### Label elements

**Emergency Overview** 

#### Danger

### Hazard statements

Harmful if swallowed Causes severe skin burns and eye damage

Combustible liquid



Color light yellow Physical state liquid Odor Almond-like

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

#### **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

### <u>Mixture</u>

Chemical Name	CAS No.	Weight-%
Quaternary ammonium compounds,	68424-85-1	50
benzyl-C12-16-alkyldimethyl, chlorides		
ethanol (Denaturated)	64-17-5	3-4*

### 4. FIRST AID MEASURES

# **Description of first aid measures**

General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing.

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 soap and plenty of water while removing all contaminated

clothes and shoes. Immediate medical attention is not required. If skin irritation persists, call

a physician.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

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Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If

symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

**Self-protection of the first aider**Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

**Symptoms** Corrosive effects.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric

lavage.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use: Dry chemical. Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical

Combustible material. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

**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

**Personal precautions**Use personal protective equipment as required. Remove all sources of ignition. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to

flashback. Take precautionary measures against static discharges.

Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. 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.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Pick up and

transfer to properly labeled containers. Soak up with inert absorbent material. Dam up.

Take precautionary measures against static discharges.

# 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. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

### 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. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep away from heat. Keep in properly labeled

containers.

Incompatible materials Incompatible with oxidizing agents. Strong acids. Strong bases. 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
ethanol (Denaturated)	STEL: 1000 ppm	TWA: 1000 ppm	-
64-17-5		TWA: 1900 mg/m <sup>3</sup>	
		(vacated) TWA: 1000 ppm	
		(vacated) TWA: 1900 mg/m <sup>3</sup>	

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

Engineering Controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

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

**Skin and body protection** Wear protective gloves and protective clothing.

**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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state liquid

Appearanceaqueous solutionOdorAlmond-like

Color light yellow Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 7-8

Melting point/freezing pointNo information availableBoiling point / boiling rangeNo information availableFlash point66 °C / 150 °F

**Evaporation rate**Flammability (solid, gas)
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
No information available
No information available
No information available
Vapor density
No information available
Specific Gravity
No information available
Completely miscible with water

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
No information available

Density 0.92 g/cm3

Bulk densityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

**Other Information** 

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

### 10. STABILITY AND REACTIVITY

#### Reactivity

Stable under normal conditions

### **Chemical stability**

Stable under recommended storage conditions.

# **Possibility of Hazardous Reactions**

None under normal processing.

#### Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight. Do not mix with other chemicals.

### Incompatible materials

Incompatible with oxidizing agents. Strong acids. Strong bases. Do not mix with other swimming pool/spa chemicals in their concentrated forms.

### **Hazardous Decomposition Products**

Carbon oxides.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

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

**Eye contact** Severely irritating to eyes. Causes burns.

**Skin contact** Causes skin irritation. May cause burns.

**Ingestion** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	= 426 mg/kg(Rat)	-	-
68424-85-1			

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ethanol (Denaturated)	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
64-17-5			- '

### Information on toxicological effects

**Symptoms** No information available.

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

Skin corrosion/irritation MAY CAUSE BURNS OR EXTERNAL ULCERS.

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

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
Target Organ Effects
No information available.
No information available.
No information available.
Eyes, Skin.

Aspiration hazard No information available.

### Numerical measures of toxicity - Product Information

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

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

52.7529375% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ethanol (Denaturated)	-	12.0 - 16.0: 96 h Oncorhynchus	9268 - 14221: 48 h Daphnia magna
64-17-5		mykiss mL/L LC50 static 100: 96 h	mg/L LC50 2: 48 h Daphnia magna
		Pimephales promelas mg/L LC50	mg/L EC50 Static 10800: 24 h
		static 13400 - 15100: 96 h	Daphnia magna mg/L EC50
		Pimephales promelas mg/L LC50	
		flow-through	

# Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

### **Mobility**

No information available.

Chemical Name	Partition coefficient
ethanol (Denaturated)	-0.32
64-17-5	

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

Note: Limited quantity (LQ) exception is possible

DOT

**UN/ID no.** UN1760

Proper shipping name CORROSIVE LIQUID, N.O.S. (Quaternary ammounium compounds)

Hazard Class 8
Packing Group

**Description** UN1760, Corrosive liquids, n.o.s. (Quaternary ammonium compounds), 8, II

**Emergency Response Guide** 154

Number

**IATA** 

**UN/ID no.** UN1760

Proper shipping name Corrosive liquid, n.o.s. (Quaternary ammonium compounds)

Hazard Class 8
Packing Group

**Description** UN1760, Corrosive liquid, n.o.s. (Quaternary ammonium compounds), 8, II

**IMDG** 

UN/ID no. UN1760

Proper shipping name Corrosive liquid, n.o.s. (Quaternary ammonium compounds)

Hazard Class 8
Packing Group II
EmS-No. F-A, S-B

Marine pollutant This material meets the definition of a marine pollutant

# 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 HazardNoFire hazardYesSudden 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 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**

Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ethanol (Denaturated)	X	X	X
64-17-5			

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

**EPA Pesticide Registration Number** 45309-18-5185

#### **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

DANGER: Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or safety glasses, rubber gloves and protective clothing when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

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

NFPA Health hazards 3 Flammability 2 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 3 Flammability 2 Physical hazards 0 Personal protection X

Prepared By Regulatory Affairs
Revision Date Regulatory 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**