# **SAFETY DATA SHEET**

29-Feb-2016

### 1. IDENTIFICATION

Product identifier

Product Name PROGUARD 3 INCH TABLETS

Other means of identification

Product Code 21785BPG UN/ID no. UN2468

Recommended use of the chemical and restrictions on use
Recommended Use Swimming pool sanitizer.
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
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 2

### Label elements

### **Emergency Overview**

### Danger

#### Hazard statements

Harmful if swallowed
Causes severe skin burns and eye damage
Suspected of damaging fertility or the unborn child
May cause respiratory irritation

Fatal if inhaled \*\*

May intensify fire; oxidizer

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\*\* Product as sold is not expected to produce respiratory effects. See Section 11 (Toxicological Information) for additional details on inhalation.

#### **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

Do not eat, drink or smoke when using this product

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

Use only outdoors or in a well-ventilated area

Wear respiratory protection

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

Keep/Store away from clothing/ combustible materials

### **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. Water only; no dry chemical, CO<sub>2</sub> or Halon

### **Precautionary Statements - Storage**

Store locked up. Store in a well-ventilated place. Keep container tightly closed

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### <u>Mixture</u>

Chemical Name	CAS No.	Weight-%
Trichloroisocyanuric acid	87-90-1	99
boric acid	10043-35-3	0.5-1

4. FIRST AID MEASURES

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#### **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. Wash contaminated clothing before reuse. If skin irritation persists, call

a physician. Immediate medical attention is not required.

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

Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. If symptoms persist, call a physician.

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

person sip a glass of water if able to swallow. Call a physician immediately.

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

#### 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. Probable mucosal damage may contraindicate the use of gastric

lavage.

### 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Flood fire area with water from a distance.

**Unsuitable extinguishing media** Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.

### Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

### **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. Evacuate personnel to safe areas. Keep

people away from and upwind of spill/leak.

**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. Do not add water to 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. Do not close containers containing wet or damp material. They should be left open to disperse any

hazardous gases that may form.

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. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not use floor sweeping compounds to clean up spills. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

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

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. Do not mix with other chemicals. Keep/Store away from clothing/ combustible materials. Wash

thoroughly after handling. Use only in well-ventilated areas.

#### 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 containers tightly closed in a cool, well-ventilated place. Keep in properly

labeled containers.

Incompatible materials Incompatible with strong acids and bases. Ammonia. Calcium hypochlorite. Combustible

material. Do not mix with other swimming pool/spa chemicals in their concentrated forms.

Reducing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
boric acid	STEL: 6 mg/m³ inhalable	-	-
10043-35-3	particulate matter		
	TWA: 2 mg/m³ inhalable particulate		
	matter		

#### 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 should be worn. Positive-pressure supplied air respirators may be

Chlorine

required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Odor

q/cm3

**General Hygiene Considerations** 

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Solid
Appearance tablet

Color white Odor threshold No information available

PropertyValuesRemarks • MethodpH3-3.5in 1% SolutionMelting point / freezing point248 °CDecomposes on heating

Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)

No information available
No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific Gravity

No information available
No information available
No information available
No information available

Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Soluble in water
No information available

**Density** 0.88-0.96

Bulk density

Explosive properties

Oxidizing properties

No information available
No information available
May intensify fire; oxidizer

Other Information

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

Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.

### **Incompatible materials**

Incompatible with strong acids and bases. Ammonia. Calcium hypochlorite. Combustible material. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Reducing agents.

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### **Hazardous Decomposition Products**

Chlorine gas.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Inhalation** This material in the form as sold is not expected to produce respiratory effects. Particles of

respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The

pulmonary edema may develop several hours after a severe acute exposure.

**Eye contact** Risk of serious damage to eyes. Causes burns.

Skin contact Irritating to skin. Contact with moist skin may cause skin burns. Causes burns. May be fatal

if absorbed through skin.

**Ingestion** Harmful if swallowed. May be fatal if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloroisocyanuric acid 87-90-1	= 406 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>50 mg/L (Rat) 4 h
boric acid 10043-35-3	= 2660 mg/kg ( Rat )	> 2000 mg/kg(Rabbit)	> 0.16 mg/L (Rat)4 h

#### 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
Chronic toxicity
Aspiration hazard

May cause respiratory irritation.
No information available.
Avoid repeated exposure.
No information available.

### Numerical measures of toxicity - Product Information

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

 Oral LD50
 809 mg/kg (rat)

 Dermal LD50
 > 2000 mg/kg (rabbit)

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Trichloroisocyanuric acid	-	0.13 - 0.5: 96 h Lepomis	0.16 - 0.18: 48 h Daphnia magna
87-90-1		macrochirus mg/L LC50 static 0.06 -	mg/L EC50 Static 0.21: 48 h

		0.11: 96 h Oncorhynchus mykiss mg/L LC50 static	Daphnia magna mg/L EC50
boric acid	-	1020: 72 h Carassius auratus mg/L	, ,
10043-35-3		LC50 flow-through	mg/L EC50

#### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

#### **Mobility**

No information available.

Chemical Name	Partition coefficient
boric acid	-0.757
10043-35-3	

#### 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

<u>DOT</u>

UN/ID no. UN2468

Proper shipping name Trichloroisocyanuric acid, dry

Hazard Class 5.1 Packing Group II

**Description** UN2468, Trichloroisocyanuric acid, dry, 5.1, II

Emergency Response Guide 140

Number

**TDG** 

UN/ID no. UN2468

Proper shipping name Trichloroisocyanuric acid, dry

Hazard Class 5.1 Packing Group

**Description** UN2468, Trichloroisocyanuric acid, dry, 5.1, II

<u>IATA</u>

**UN/ID no.** UN2468

Proper shipping name Trichloroisocyanuric acid, dry

Hazard Class 5.1 Packing Group II

**Description** UN2468, Trichloroisocyanuric acid, dry, 5.1, II

IMDG

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UN/ID no. UN2468

Proper shipping name Trichloroisocyanuric acid, dry

Hazard Class 5.1
Packing Group

**EmS-No.** F-A, S-Q

**Description** UN2468, Trichloroisocyanuric acid, dry, 5.1, II

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 hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

### **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**

This product does not contain any Proposition 65 chemicals

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Trichloroisocyanuric acid 87-90-1	X	X	X
boric acid 10043-35-3	Х	-	-

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

**EPA Pesticide Registration Number** 5185-144

#### **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: Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or safety glasses and rubber gloves when handling this product. Irritating to nose and throat. Avoid breathing dust and fumes. Remove and wash contaminated clothing before reuse.

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

NFPA Health hazards 3 Flammability 0 Instability 1 Physical and Chemical

**Properties** OX

HMIS Health hazards 3 Flammability 0 Physical hazards 1 Personal protection X

Prepared By Regulatory Affairs Revision Date Regulatory Affairs 29-Feb-2016

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**