

Material Safety Data Sheet

PROGUARD® 3" TABLETS

Version: 1.1

Revision Date: 11/10/2010

Print Date: 03/03/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *PROGUARD® 3" TABLETS*

Product Use Description: Swimming Pool Product

Chemical nature: Chlorinated Isocyanurates

Registration number: 5185-144

Company: Bio-Lab, Inc.
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

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

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SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Danger

Form: tablet Colour: white Odour: Chlorine

Hazard Summary : Corrosive
Oxidizer
Causes serious eye damage.
Causes skin burns.
May be fatal if absorbed through skin.
Harmful or fatal if swallowed.
May be fatal if inhaled.
Causes respiratory tract irritation.
Avoid breathing dust or vapor.
Do not get in eyes, on skin, or on clothing.

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OSHA Hazards

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

Potential Health Effects

Primary Routes of Entry

: Eye contact
Skin contact
Inhalation
Ingestion

Aggravated Medical Condition

: Respiratory disorders
Skin disorders

Inhalation

: May be fatal if inhaled.
Causes respiratory tract irritation.

Skin

: May be fatal if absorbed through skin.
Causes skin burns.
On contact with moisture, this material readily hydrolyzes to acid which may result in burns if not promptly removed.

Eyes

: Causes serious eye damage.

Ingestion

: Harmful or fatal if swallowed.

Chronic Exposure

: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Weight percent
Trichloro-s-triazinetrione	87-90-1	99 %

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.

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- Skin contact** : Remove contaminated clothing and shoes.
Rinse immediately with plenty of water for at least 15 minutes.
Call a physician or poison control centre immediately.
- 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 directed to do so by a physician or poison control center.
Do not give anything by mouth to a convulsing or unconscious person.

Notes to physician

- Treatment** : Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

- Flash point** : Remarks: not applicable

Fire fighting

- Suitable extinguishing media** : Flood with large volumes of water.

- Unsuitable extinguishing media** : ABC powder
Dry powder
Risk of violent reaction.

- Further information** : Do not let fire burn.
Nitrogen trichloride can be generated slowly by the reaction of small quantities of water with a high concentration of this product. Nitrogen trichloride can present an explosion hazard. Immediately after a fire has been extinguished, check for wet or damp material. Any spilled material from burned or broken containers should be assumed contaminated. Neutralize to a non-oxidizing material for safe disposal. Do not attempt to re-close broken containers, even for movement to the disposal area. They should be left open to disperse any nitrogen trichloride that may form. Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. If the plastic liner (where applicable) of the container is damaged or the material is damp, the material should be chemically treated if allowable, to a non-oxidizing material for safe disposal. Bulging containers require extreme care. Contact the fire department.

Protective equipment and precautions for firefighters

- Specific hazards during fire** : Under extreme heat (greater than 400F), this product will evolve noxious chlorine

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fighting

containing gases.

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.

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.
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.

Additional advice : Do not use floor sweeping compounds to clean up spills.
Do not transport wet or damp material.
Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.
Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Strong oxidizing agent.
Avoid contact with skin, eyes and clothing.
Avoid breathing dust.
Avoid breathing vapors.
Do not mix with other chemicals.
Mix only with water.
Never add water to this product.
Always add product to large quantities of water.
Use only clean and dry utensils.
Do not add this product to any dispensing devices containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion.
Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.
In case of contamination or decomposition, do not reseal container.
If possible, isolate container in open air or well ventilated area.
Flood with large volumes of water.
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.
Temperature not to exceed 52 C (125F) for 24 hours.
Store in a cool, dry, well ventilated area away from heat or open flame.
Keep out of reach of children.
Keep away from animals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Engineering measures

Engineering measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Use with adequate ventilation.

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 : Avoid contact with skin, eyes and clothing.
Avoid breathing dust or vapor.
Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : tablet

Colour : white

Odour : Chlorine

Safety data

Flash point : Note: not applicable

pH : 3 - 3.5

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	at 77 °F (25 °C) Note: 1% Solution
Melting point/range	: 437 - 446 °F (225 - 230 °C) Note: Decomposes
Boiling point/boiling range	: Note: not applicable
Vapour pressure	: Note: Not Available
Density	: 0.88 - 0.96 g/cm ³
Water solubility	: 1 - 1.2 g/l at 77 °F (25 °C)
Relative vapour density	: Note: Not Available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Remarks: High temperatures. Poor ventilation. Contamination Moisture/high humidity.
Materials to avoid	: Remarks: Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; other swimming pool/spa chemicals in their concentrated form; alkalis. Avoid contact with all other chemicals.
Hazardous decomposition products	: Note: Chlorine containing gases can be produced.
Thermal decomposition	: 225 - 230 °C
Hazardous reactions	: Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 809 mg/kg Species: rat
Acute inhalation toxicity	: Remarks: Direct contact with wet material or moist skin may cause severe irritation, pain and possibly burns. This material in the form as sold is not expected to produce respiratory effects. If ground or otherwise in a powdered form, effects similar to a corrosive

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substance may occur.
May cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes.

Acute dermal toxicity : > 2,000 mg/kg
Species: rabbit

Skin irritation : Remarks: Direct contact with wet material or moist skin may cause severe irritation, pain and possibly burns.

Eye irritation : Remarks: Causes serious eye damage.

12. ECOLOGICAL INFORMATION

Toxicity to fish
Trichloro-s-triazinetriene : LC50: 0.24 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates.
Trichloro-s-triazinetriene : LC50: 0.21 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae
Trichloro-s-triazinetriene : EC50: 655 mg/l
Exposure time: 96 h
Species: Algae

Further information on ecology

Additional ecological information : Toxic to fish.
Toxic to aquatic organisms.
Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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SECTION 13. DISPOSAL CONSIDERATIONS

- Further information : Dispose of waste material in compliance with all federal, state, and local regulations.
If these wastes cannot be disposed of by use according to label instructions, contact your Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. For registered pesticides, contact your State Pesticide Agency.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.
Contact with incompatible materials could cause a reaction or fire. Improper disposal of excess product, spray mixture or rinsate is a violation of Federal Law.
- Contaminated packaging : Do not re-use empty containers.
Rinse thoroughly before discarding in trash.

SECTION 14. TRANSPORT INFORMATION

DOT

- UN number : 2468
Description of the goods : Trichloroisocyanuric acid, dry
Class : 5.1
Packing group : II
ERG Code : 140

IATA

- UN number : 2468
Description of the goods : Trichloroisocyanuric acid, dry
Class : 5.1
Packing group : II

IMDG

- UN number : 2468
Description of the goods : TRICHLOROISOCYANURIC ACID, DRY
Class : 5.1
Packing group : II
EmS Letter 1 : F-A
EmS Letter 2 : S-Q
- Marine pollutant : yes

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Trichloro-s-triazinetriene

Not recommended for shipment by air
Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG by road and/or rail.
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 : Fire Hazard
Acute Health Hazard
Reactivity Hazard

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

Note: Listed

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 3
Flammability: 0
Reactivity: 1
PPI: Ask supervisor or safety specialist for handling instructions

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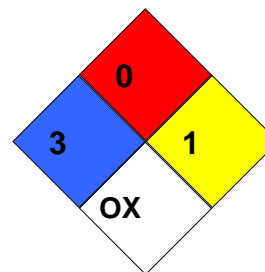
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NFPA Classification : Health hazard: 3
Fire Hazard: 0
Reactivity Hazard: 1
Specific hazards: OX Class 1
Oxidizer.



Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
<u>Mexico:</u>		+52 555 004 87 63

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.