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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 Brominating Tablets

Product Use Description: Recreational Water Product

Chemical nature: Halogenated hydantoin

EPA Registration Number: EPA 5185-420

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

For additional emergency telephone numbers see section 16 of the

Safety Data Sheet.

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:tabletColour:white

Odour: Faint Halogen.

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Corrosive OSHA Hazards:

Oxidizer

Causes severe eye damage.

Causes skin burns.

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

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Harmful if swallowed.

Causes respiratory tract irritation. Avoid breathing dust or vapor.

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

Potential Health Effects

Primary Routes of Entry : Skin contact

Eye contact Inhalation Ingestion

Aggravated Medical Condition : Respiratory disorders

Skin disorders

Inhalation : Causes respiratory tract irritation.

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 severe eye damage.

Ingestion : Harmful if swallowed.

Chronic Exposure : None known.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Concentration
1-bromo-3-chloro-5,5-dimethylhydantoin	16079-88-2	96 %

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.

Call a physician or poison control centre immediately.

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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 : not applicable

Protective equipment and precautions for firefighters

Suitable extinguishing media : Flood with large volumes of water.

Unsuitable extinguishing

media

ABC powder Dry chemical

Risk of violent reaction.

Hazardous combustion

products

Hydrogen halides

Bromine Chlorine Carbon oxides nitrogen oxides (NOx)

nitrogen oxides (NOX

Further information : In large fires fueled by other materials, this product may smolder for prolonged

periods emitting a dense black smoke.

Do not let fire burn.

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

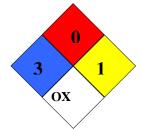
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Nevision Date.	03/11/2000	
Print Date:	12/05/2008	
Pilit Date.	12/03/2006	

NFPA Classification : Health Hazard: 3

Fire Hazard: 0 Reactivity Hazard: 1 Specific hazards: OX Class

2 Oxidizer.



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.

Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

Handling

Advice on safe handling : 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.

When using automatic feeding devices, always follow manufacturer's directions

as to the proper addition of sanitizer product to brominators.

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,

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drinking or using tobacco.

Do not handle until all safety precautions have been read and understood. Do not contaminate water, food or feed by storage or disposal or cleaning of

equipment.

Storage

Requirements for storage areas and containers

Store in original container.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep out of reach of children. Keep away from animals.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Engineering measures : Use with adequate ventilation.

Ensure that eyewash stations and safety showers are close to the workstation

location.

Personal protective equipment

Eye protection : Goggles

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 : tablet

Colour : white

Odour : Faint Halogen.

Safety data

Flash point : not applicable

Oxidizing properties : Oxidizer

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рΗ 4.5

(as aqueous solution), 0.1%, solution

Melting point/range 248 - 298 °F (120 - 148 °C)

Decomposes

Boiling point/boiling range not applicable

Vapour pressure not applicable

0.87 - 0.92 g/cm3 Density

Water solubility 1.5 g/l

Relative vapour density : not applicable

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid High temperatures.

> Poor ventilation. Contamination

Moisture/high humidity.

Materials to avoid 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

Type: Hazardous combustion products

Hydrogen halides

Bromine Chlorine Carbon oxides nitrogen oxides (NOx)

Thermal decomposition 180 °C (356 °F)

Hazardous reactions Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

LD50 rat Acute oral toxicity

Dose: 578 mg/kg

: LD50 rabbit Acute dermal toxicity

Dose: > 2,000 mg/kg

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Skin irritation : rabbit

Classification: Corrosive

Result: Primary Irritation Index (PII) = 6.1

Causes skin burns.

Direct contact with wet material or moist skin may cause severe irritation, pain and possibly

urns.

Eye irritation : rabbit

Classification: Corrosive Causes severe eye damage.

Sensitisation : Did not cause sensitization on laboratory animals.

SECTION 12. ECOLOGICAL INFORMATION

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.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local

regulations.

Improper disposal of excess product, spray mixture or rinsate is a violation of

Federal Law.

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 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.

Contaminated packaging : Do not re-use empty containers.

Rinse thoroughly before discarding in trash.

SECTION 14. TRANSPORT INFORMATION

DOT UN-Number : 1479

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Proper shipping name : Oxidizing solid, n.o.s.

Proper technical name (CONTAINS BROMO-CHLORO-

DIMETHYLHYDANTOIN)

Class : 5.1 Packing group : II

IATA UN-Number : 3085

Proper shipping name : Oxidizing solid, corrosive n.o.s.
Proper technical name : CONTAINS BROMO-CHLORO-

DIMETHYLHYDANTOIN)

Class : 5.1 (8)

Packing group : II

IMDG UN-Number : 3085

Proper shipping name : OXIDIZING SOLID, CORROSIVE, N.O.S.

Proper technical name (CONTAINS BROMO-CHLORO-

DIMETHYLHYDANTOIN)

Class : 5.1 (8)

Packing group : II

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

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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 : Fire Hazard

v (positive

Acute Health Hazard Reactivity Hazard

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

	listing)	, and the second
TSCA	y (positive listing)	On TSCA Inventory
AICS	y (positive listing)	On or in compliance with the inventory
DSL	y (positive listing)	All components of this product are on the Canadian DSL list.
ENCS	y (positive listing)	On or in compliance with the inventory
KECI	y (positive listing)	On or in compliance with the inventory
PICCS	y (positive listing)	On or in compliance with the inventory
IECSC	y (positive listing)	On or in compliance with the inventory

On or in compliance with the inventory

Additional advice:

EINECS

FIFRA (Federal Insecticide, Fungicide, Rodenticide Act): This product is a registered pesticide.

SECTION 16. OTHER INFORMATION

Further information

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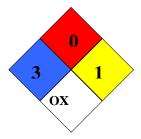
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NFPA Classification : Health Hazard: 3

Fire Hazard: 0 Reactivity Hazard: 1

Specific hazards: OX Class 2

Oxidizer.



HMIS Classification : Health Hazard: 3

Flammability: 0 Reactivity: 1

PPI:Ask supervisor or safety specialist for handling instructions

Other Emergency Phone Number

Latin America:	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
Mexico:		+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. 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.

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