# SAFETY DATA SHEET

27-Feb-2017

# **1. IDENTIFICATION**

Product identifier Product Name	SPAGUARD BROMINATING TABLETS
<u>Other means of identification</u> Product Code UN/ID no.	42120BIO UN1479
<u>Recommended use of the chemical</u> Recommended Use Uses advised against	and restrictions on use Swimming Pool Product. Spa Product. 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	

## Emergency telephone number

Emergency Telephone

Telephone 800-859-7946

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 - Dermal	Category 5
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Oxidizing solids	Category 2

#### Label elements

**Emergency Overview** 

# Danger

#### Hazard statements

Harmful if swallowed May be harmful in contact with skin Causes severe skin burns and eye damage May intensify fire; oxidizer



Color white

Physical state Solid

Odor Chlorine Bromine

## **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 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 In case of fire Water only; no dry chemical, CO<sub>2</sub> or Halon

#### **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

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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical Name	CAS No.	Weight-%
1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dio	16079-88-2	96
ne		

# 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	Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Call a physician.

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. Call a physician.	
Ingestion	Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Have person sip a glass of water if able to swallow.	
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.

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	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.	
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. 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. 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 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. 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 out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in a dry 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 agent.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### 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). Tight sealing safety 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** 

Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Color	Solid tablet white	Odor Odor threshold	Chlorine Bromine No information available
<u>Property</u> pH Melting point/freezing point Boiling point / boiling range	<u>Values</u> 4.5 120 °C / 248 °F No information available	Remarks • Method in 1% Solution Decomposes on heating	

<b></b>	
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
-	No information ovailable
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
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Density	0.87-0.92
Bulk density	No information available
Explosive properties	No information available
Oxidizing properties	May intensify fire; oxidizer
Other Information	

Softening point Molecular weight VOC Content (%)

No information available No information available No information available g/cm3

# **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**

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 agent.

# **Hazardous Decomposition Products**

Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Inhalation	Irritating to respiratory system.
Eye contact	Risk of serious damage to eyes.
Skin contact	Irritating to skin. Contact with moist skin may cause skin burns. Causes burns.
Ingestion	Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1-bromo-3-chloro-5,5-dimethylimida	= 1390 mg/kg (Rat)	> 2 g/kg (Rabbit)	-
zolidine-2,4-dione			

16079-88-2	
Information on toxicological eff	ects
Symptoms	No information available.
Delayed and immediate effects	as well as chronic effects from short and long-term exposure
Sensitization Germ cell mutagenicity Carcinogenicity	No information available. No information available. No information available.
Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard	No information available. No information available. No information available. No information available.
Numerical measures of toxicity	- Product Information
The following values are calcula Oral LD50 Dermal LD50	ated based on chapter 3.1 of the GHS document . 578 mg/kg (rat) > 2000 mg/kg (rabbit)
	12. ECOLOGICAL INFORMATION
<u>Ecotoxicity</u>	
Toxic to aquatic life	
Persistence and degradability No information available. Bioaccumulation	
No information available. <u>Mobility</u> 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

Note:	Limited quantity (LQ) exception is possible
<u>DOT</u> UN/ID no.	UN1479

Proper shipping name Hazard Class Packing Group Description Emergency Response Guide Number	Oxidizing solid, n.o.s. (Contains bromo-chloro-dimethylhydantoin) 5.1 III UN1479, Oxidizing solid, n.o.s. (Contains bromo-chloro-dimethylhydantoin), 5.1, III 140
TDG	UN3085
UN/ID no.	Oxidizing solid, corrosive, n.o.s. (Contains Bromo-chloro-dimethylhydantoin)
Proper shipping name	5.1
Hazard Class	8
Subsidiary class	III
Packing Group	UN3085, Oxidizing solid, corrosive, n.o.s. (Contains bromo-chloro-dimethylhydantoin), 5.1
Description	(8), III
IATA	UN3085
UN/ID no.	Oxidizing solid, corrosive, n.o.s. (Contains Bromo-chloro-dimethylhydantoin)
Proper shipping name	5.1
Hazard Class	8
Subsidiary hazard class	III
Packing Group	UN3085, Oxidizing solid, corrosive, n.o.s. (Contains bromo-chloro-dimethylhydantoin), 5.1
Description	(8), III
IMDG UN/ID no. Proper shipping name Hazard Class Subsidiary hazard class Packing Group EmS-No. Marine pollutant	UN3085 Oxidizing solid, corrosive, n.o.s. (Contains Bromo-chloro-dimethylhydantoin) 5.1 8 III F-A, S-Q 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**

#### U.S. EPA Label Information

# EPA Pesticide Registration Number 5185-420

#### **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 irreversible eve damage and skin burns. Harmful if swallowed. Irritating to nose and throat. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles or safety glasses). Wear protective clothing and rubber gloves when handling this product. Avoid breathing dust and fumes. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

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

<u>NFPA</u>	Health hazards 3	Flammability 0	Instability 1	Physical and Chemical Properties OX
<u>HMIS</u>	Health hazards 3	Flammability 0	Physical hazards 1	Personal protection X
Prepared By	Regulatory Affairs 27-Feb-2017			
Revision Date Revision Note		nation available		

**Revision Note** 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**