

# SAFETY DATA SHEET

Revision Date 14-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

**Product Name** BIOGUARD MAINTAIN SLEEVED BROMINATING TABLETS

### Other means of identification

**Product Code** 2750

**UN/ID no.** UN1479

**Synonyms** None

### 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

**Initial Supplier Identifier**  
KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### 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

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

#### **Danger**

#### **Hazard statements**

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



**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 clothing and other combustible materials  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

**Precautionary Statements - Response**

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

**Eyes**

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

**Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician

**Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor

**Fire**

In case of fire: Use water spray to extinguish

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

**Unknown acute toxicity** 99.5 % of the mixture consists of ingredient(s) of unknown toxicity  
99.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

Not applicable.

Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione	16079-88-2	96	-	-

**4. FIRST AID MEASURES**

Description of first aid measures

- General advice** Show this safety data sheet to the doctor in attendance.
- Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.
- 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. Do not rub affected area. Get medical attention if irritation develops and persists.
- Skin contact** Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
- Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Have person sip a glass of water if able to swallow. Call a physician.
- Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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.

**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.
- Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

- Environmental precautions** This material is toxic to aquatic life. Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. 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. Sweep up and shovel into suitable containers for disposal. Do not use floor sweeping compounds to clean up spills. Avoid creating dust. Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.
- Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

- Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust. Ensure adequate ventilation. Use only in well-ventilated areas. Do not eat, drink or smoke when using this product. Keep away from contact with clothing and other combustible materials to avoid fire. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

- Storage Conditions** Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Store away from other materials. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

- Exposure Limits** 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).

**Hand protection**                              Rubber gloves.

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

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**              Handle in accordance with good industrial hygiene and safety practice. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. 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**                                                  Bromine  
**Odor threshold**                                      No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	4.5	in 1% Solution
Melting point / freezing point	120 °C / 248 °F	Decomposes on heating
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	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	
Explosive properties	No information available.	
Oxidizing properties	No information available.	

**Other Information**

**Softening point**                                      No information available  
**Molecular weight**                                      No information available  
**VOC Content (%)**                                      No information available  
**Density**                                                  0.87-0.92 g/cm3  
**Bulk density**                                              No information available

**10. STABILITY AND REACTIVITY**

**Reactivity** No information available.

**Chemical stability** Stable under normal 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.

**Hazardous Decomposition Products** Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

**11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

**Product Information**

**Inhalation** Irritating to respiratory system.

**Eye contact** Irritating to eyes. Risk of serious damage to eyes. May cause burns.

**Skin contact** Irritating to skin. Contact with moist skin may cause skin burns. Causes burns.

**Ingestion** Harmful if swallowed.

Information on toxicological effects

**Symptoms** No information available.

Numerical measures of toxicity

**Acute toxicity**

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

**ATEmix (dermal)** 2,070.00 mg/kg

**Unknown acute toxicity**

- 99.5 % of the mixture consists of ingredient(s) of unknown toxicity
- 99.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Oral LD50** 578 mg/kg (rat)  
**Dermal LD50** > 2000 mg/kg (rabbit)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione 16079-88-2	= 1390 mg/kg ( Rat )	> 2 g/kg ( Rabbit ) > 2000 mg/kg ( Rabbit )	-

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

<b>Skin corrosion/irritation</b>	Contact with moist skin may cause skin burns.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Toxic to aquatic life.
<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Other adverse effects</b>	No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**Note:** Limited quantity (LQ) exception is possible

### TDG

<b>UN/ID no.</b>	UN3085
<b>Proper shipping name</b>	Oxidizing solid, corrosive, n.o.s. (Contains Bromo-chloro-dimethylhydantoin)
<b>Hazard Class</b>	5.1
<b>Subsidiary class</b>	8
<b>Packing Group</b>	III
<b>Description</b>	UN3085, Oxidizing solid, corrosive, n.o.s. (Contains bromo-chloro-dimethylhydantoin), 5.1 (8), III

### DOT

<b>UN/ID no.</b>	UN1479
<b>Proper shipping name</b>	Oxidizing solid, n.o.s. (Contains bromo-chloro-dimethylhydantoin)
<b>Hazard Class</b>	5.1

<b>Packing Group</b>	III
<b>Description</b>	UN1479, Oxidizing solid, n.o.s. (Contains bromo-chloro-dimethylhydantoin), 5.1, III
<b>Emergency Response Guide Number</b>	140

**IATA**

<b>UN/ID no.</b>	UN3085
<b>Proper shipping name</b>	Oxidizing solid, corrosive, n.o.s. (Contains Bromo-chloro-dimethylhydantoin)
<b>Hazard Class</b>	5.1
<b>Subsidiary hazard class</b>	8
<b>Packing Group</b>	III
<b>Description</b>	UN3085, Oxidizing solid, corrosive, n.o.s. (Contains bromo-chloro-dimethylhydantoin), 5.1 (8), III

**IMDG**

<b>UN/ID no.</b>	UN3085
<b>Proper shipping name</b>	Oxidizing solid, corrosive, n.o.s. (Contains Bromo-chloro-dimethylhydantoin)
<b>Hazard Class</b>	5.1
<b>Subsidiary hazard class</b>	8
<b>Packing Group</b>	III
<b>EmS-No.</b>	F-A, S-Q
<b>Marine pollutant</b>	This material meets the definition of a marine pollutant

**15. REGULATORY INFORMATION**

**Regulatory information**

**Canadian Federal Regulations**

**PCP Registration Number** 30178

**International Regulations**

**Ozone-depleting substances (ODS)** Not applicable  
**Persistent Organic Pollutants** Not applicable  
**Export Notification requirements** Not applicable

**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

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

<b><u>NFPA</u></b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Instability</b> 1	<b>Physical and chemical properties -</b>
<b><u>HMIS</u></b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Physical hazards</b> 1	<b>Personal protection</b> X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>TWA</b>	<b>TWA (time-weighted average)</b>	<b>STEL</b>	<b>STEL (Short Term Exposure Limit)</b>
<b>Ceiling</b>	<b>Maximum limit value</b>	<b>*</b>	<b>Skin designation</b>

**Revision Date** 14-May-2018  
**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.**

