

**SAFETY DATA SHEET**

Date Prepared : 03/07/2017

SDS No. : Eco 1" Spa Bromine Tabs

**Eco 1" Spa Bromine Tabs****1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Eco 1" Spa Bromine Tabs  
**GENERAL USE:** Swimming Pool and Spa Sanitizer  
**PRODUCT DESCRIPTION:** 1306N6SR  
**CHEMICAL FAMILY:** Halogenated Hydantoin

**DISTRIBUTOR**

Proline Distributors, Inc.  
1191 South Rogers Circle  
Boca Raton, FL 33487  
**Emergency Phone:** (800) 377-7023

**2. HAZARDS IDENTIFICATION****GHS CLASSIFICATIONS****Health:**

Acute Toxicity (Oral), Category 4  
Skin Corrosion, Category 1B  
Skin Sensitization, Category 1

**Environmental:**

Acute Hazards to the Aquatic Environment, Category 1

**GHS LABEL**

Corrosion



Environment

Exclamation  
mark**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H400: Very toxic to aquatic life.

**PRECAUTIONARY STATEMENT(S)****Prevention:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER/doctor/...  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

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P391: Collect spillage.  
 P264: Wash ... thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 P405: Store locked up.  
 P501: Dispose of contents/container to ...  
 P362+P364: Take off contaminated clothing and wash it before reuse.

**HAZARDS NOT OTHERWISE CLASSIFIED:** May form combustible dust concentrations in air.

EUH031: Contact with acids liberates toxic gas.

### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** White to off-white tablet with faint halogenous odor.

**IMMEDIATE CONCERNS:** Corrosive. Causes severe eye damage and skin burns. Eye contact may cause loss of vision. Irritating to nose and throat. Harmful if absorbed through skin or swallowed. If swallowed, DO NOT induce vomiting. This pesticide is toxic to fish and aquatic organisms. Strong oxidizing agent.

### POTENTIAL HEALTH EFFECTS

**EYES:** Corrosive. Causes severe eye damage.

**SKIN:** Causes severe skin burns. May cause skin sensitization.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Shortness of breath, headache and nausea. Irritant to upper respiratory tract.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Bromo-chloro-5, 5-dimethylhydantoin	96	32718-18-6

### 4. FIRST AID MEASURES

**EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. See a doctor immediately.

**SKIN:** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** Corrosive. No specific antidote. In case of ingestion, DO NOT induce vomiting. Treat symptomatically and supportively. Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry powder, carbox dioxide or water spray. Water may be ineffective. In case of exothermic decomposition and appearance of smoke, water should be used to suppress it. DO NOT use dry chemical extinguisher containing ammonia compounds.

**EXPLOSION HAZARDS:** Oxidizing agent. Forms explosive mixtures with combustible, organic or other easily oxidizable materials. When heated to decomposition, may release poisonous and corrosive fumes. Dust may form a weak explosive mixture with air

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(class St1), but is not sensitive to ignition from electrostatic discharges.

**FIRE FIGHTING PROCEDURES:** Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Evacuate area. Use respirator with combined filter (inorganic gas and dust), gloves, chemical safety goggles and body covering clothes. If material is decomposing, use self-contained breathing apparatus and a fully encapsulated suit. **ENVIRONMENTAL PRECAUTIONS:** Prevent entry into sewers and watercourses.

**RELEASE NOTES:** Sweep up, place in a suitable container and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete.

**SPECIAL PROTECTIVE EQUIPMENT:** Use respirator with combined filter (inorganic gas and dust), gloves, chemical safety goggles and body covering clothes. If material is decomposing, use self-contained breathing apparatus and a fully encapsulated suit.

### 7. HANDLING AND STORAGE

**HANDLING:** Keep containers tightly closed.

**STORAGE:** Keep away from sources of ignition. Recommended storage temperature below 30°C (86°F). For transportation purposes it is possible to store at temperatures up to 50°C (122°F). Store in a dry, well-ventilated area. Store away from incompatible materials. Materials to avoid: Combustible organic materials. Bases. Oxidizing agents.

**STORAGE TEMPERATURE:** Recommended storage temperature below 30°C (86°F).

**LOADING TEMPERATURE:** For transportation purposes it is possible to store at temperatures up to 50°C (122°F).

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	EXPOSURE LIMITS			
	Type		ppm	mg/m <sup>3</sup>
Bromo-chloro-5, 5-dimethylhydantoin	OSHA PEL	TWA	N/E	
	ACGIH TLV	TWA	N/E	

**ENGINEERING CONTROLS:** Use local exhaust as necessary, especially under dusty conditions. Ventilation must be sufficient to maintain atmospheric concentration below recommended exposure limit.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear chemical safety goggles.

**SKIN:** Wear neoprene gloves and body covering clothes and boots.

**RESPIRATORY:** Respirator with combined filter (inorganic gas and dust).

**WORK HYGIENIC PRACTICES:** Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly before eating or smoking. Safety shower and eye bath should be provided.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Solid

**ODOR:** Faint halogenous odor

**APPEARANCE:** White to off-white tablet

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**FLASHPOINT AND METHOD:** Not Applicable  
**FLAMMABLE LIMITS:** Not Available  
**AUTOIGNITION TEMPERATURE:** Not Available  
**VAPOR PRESSURE:** 9.35x10<sup>(-3)</sup> Pa (25°C)  
**VAPOR DENSITY:** Not applicable under standard conditions  
**BOILING POINT:** Not Applicable  
**MELTING POINT:** Not applicable (decomposes)  
**THERMAL DECOMPOSITION:** > 160°C  
**SOLUBILITY IN WATER:** .22 g/100ml at 25°C  
**PARTITION COEFFICIENT: N-OCTANOL/WATER:** Kow = <1 (pH 5-9)  
**EVAPORATION RATE:** Not applicable under standard conditions  
**SPECIFIC GRAVITY:** 1.8 to 2.0  
**OXIDIZING PROPERTIES:** Not sufficient for classification as oxidizer (Method A17 & UN Test 0.1)

### 10. STABILITY AND REACTIVITY

**REACTIVITY:** Combustible materials. Oxidizing agents. Bases.  
**HAZARDOUS POLYMERIZATION:** No additional information available.  
**STABILITY:** Stable under normal conditions.  
**CONDITIONS TO AVOID:** Exposure to moisture. Heating above decomposition temperature.  
**POSSIBILITY OF HAZARDOUS REACTIONS:** Contact with combustible materials may initiate decomposition of the material and emission of smoke.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, HBr, Cl<sub>2</sub>, NO<sub>x</sub>, HCl, CO<sub>2</sub>  
**INCOMPATIBLE MATERIALS:** Oxidizing agents, bases, and combustible organic materials.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

**ORAL LD<sub>50</sub>:** 929 mg/kg - Rat

**INHALATION LC<sub>50</sub>:** 1.1 mg/l/4 hour (powder) - Rat

**SERIOUS EYE DAMAGE/IRRITATION:** Dermal irritation (rabbit) - Corrosive

**RESPIRATORY OR SKIN SENSITISATION:** Sensitizer

**GERM CELL MUTAGENICITY:** Mutagenic by the Ames Test. Mutagenic in the mouse lymphoma L5178Y test system. Non genotoxic in an in-vivo in micronucleous test in mice. Non genotoxic in an in-vivo liver unscheduled DNA synthesis (USD) assay.

#### CARCINOGENICITY

**IARC:** Not classified as a carcinogen.

**NOTES:** Not included in NTP 13th Report on Carcinogens. Not classified by IARC.

**STOT-SINGLE EXPOSURE:** No effects on specific target organs have been identified.

**STOT-REPEATED EXPOSURE:** Prolonged skin contact may cause sensitization.

**ASPIRATION HAZARD:** Not expected to occur.

### 12. ECOLOGICAL INFORMATION

**BIOACCUMULATION/ACCUMULATION:** Based on low Kow values, i.e. less than one, this product would not be predicted to

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significantly accumulate in aquatic organisms, or sorb to organic material in soil or sediment.

### AQUATIC TOXICITY (ACUTE)

**96-HOUR LC<sub>50</sub>:** 1.2 mg/l (eastern oyster, Acute flow through)  
 1.9 mg/l (Mysid shrimp, Acute flow through)  
 0.4 mg/l (Rainbow trout, Static)  
 1.6 mg/l (Sheepshead minnow, Acute flow through)

**48-HOUR EC<sub>50</sub>:** 0.75 mg/l (Static) (Daphnia Magna)

**GENERAL COMMENTS:** Mobility in soil: There will be no exposure of BCDMH to soil. The main degradation product, DMH, is mobile in soil.

### COMMENTS: Avian Toxicity:

Oral LD50, Bobwhite Quail 1839 mg/kg  
 Dietary LC50, Mallard Duck >5620 ppm  
 Dietary LC50, Bobwhite quail >5620 ppm

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in approved landfill sites or an approved incinerator. Avoid access to streams, lakes or ponds. Observe all federal, state and local environmental regulations when disposing of this material.

**EMPTY CONTAINER:** Crush and bury empty containers. Do NOT throw into public waste disposal site. Avoid contact with organic materials and moisture. See conditions to avoid in Section 10.

**RCRA/EPA WASTE INFORMATION:** This product does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, with the following EPA hazardous waste number: D001

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Oxidizing Solid, Corrosive, N.O.S. (Bromochloro-5, 5-Dimethylhydantoin)

**PRIMARY HAZARD CLASS/DIVISION:** 5.1

**SECONDARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** UN 3085

**PACKING GROUP:** III

**LABEL:** Oxidizing Agent (5.1) and Corrosive (8)

**MARINE POLLUTANT #1:** Yes

## 15. REGULATORY INFORMATION

### UNITED STATES

#### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Oxidizing

### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** This product is a hazardous chemical under 29CFR 1910.1200 and is categorized as an IMMEDIATE, DELAYED HEALTH and REACTIVITY physical hazard.

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**313 REPORTABLE INGREDIENTS:** This product does not contain a chemical listed at or above de minimis concentrations.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Not listed.

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** 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. Below you will find the hazard information that is required on the EPA pesticide label.

**GENERAL COMMENTS: HAZARD INFO FOUND ON BROMINATING TABS EPA LABEL:**

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Eye contact may cause loss of vision. Harmful if inhaled. Irritating to nose and throat. Harmful if absorbed through skin or swallowed. This product is toxic to fish and aquatic organisms. Strong oxidizing agent.

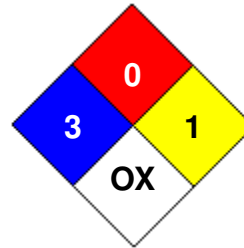
### 16. OTHER INFORMATION

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#### HMIS RATING

HEALTH	<input type="checkbox"/>	3
FLAMMABILITY	<input type="checkbox"/>	0
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

#### NFPA CODES



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