

# MATERIAL SAFETY DATA SHEET

Revision #: 03

## Section 1 - Product Identification & Use

Product Name: **Bromine Tablets**  
WHMIS Classification: Class C: Oxidizing Material  
TDG Classification: Oxidizing solid, n.o.s. (bromo-chloro-dimethylhydantoin) Class 5.1, UN 1479, Packing Group II  
Supplier: Advance Chemicals Ltd.  
2023 Kingsway Ave  
Port Coquitlam, BC V3C 1S9  
phone (604)945-9666  
fax (604)945-9617  
Emergency phone: CANUTEC 24 hrs (613) 996-6666

## Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD <sub>50</sub> & LC <sub>50</sub>
1-bromo-3-chloro-5, 5-dimethylhydantoin	92.5	126-06-7	no data found

## Section 3 - Physical Data

Physical state: solid  
Boiling point: N/A  
Specific Gravity: N/A  
Freezing point: 120-148°C  
Volatile (By volume): <0.5  
Solubility in water: 0.54g/100g @ 25°C  
Vapour pressure: N/A  
Evaporation rate: no data found  
**Odour & Appearance:** Pungent, off-white tablets.

## Section 4 - Fire or Explosion Hazard

**Flammability:** The product is considered to be flammable. Contamination with organic chemicals, acids, or ammonia may generate fumes leading to fire or explosion.  
**Flash Point:** Decomposes at 165°C.  
**Extinguishing media:** Use copious quantities of water.  
**Hazardous Combustion/Decomposition Products:** Produces noxious gases: Br<sub>2</sub>

## Section 5 - Reactivity Data

**Stability:** Stable.  
**Incompatible substances:** Strong acids and alkalis, high storage temperatures, organic materials, ammonia bearing compounds, strong reducing agents and moisture.  
**Polymerization:** Will not occur.  
**Hazardous decomposition products:** Thermal decomposition releases unidentified noxious gases.

## Section 6 - Toxicological Properties

**Route of Entry:** Skin, eye, ingestion and acute inhalation.  
**Inhalation:** May cause damage to lungs (systemic absorption). Severe to nose and throat.  
**Skin contact:** Acute exposure may cause severe skin damage.  
**Eye contact:** Acute exposure may cause severe eye damage.

## Section 7 - Preventative Measures

**Personal Protective Equipment:** Avoid contact with skin and eyes. Wear chemical protective gloves, goggles and face shield, rubber apron and boots. Eye wash fountains and safety shower facilities should be provided nearby for emergency use.  
**Respiratory protection:** Use an NIOSH/MSHA approved air purifying, dust, mist and particulate respirator.  
**Action to take for spills & leaks:** Wear chemical protective clothing, rubber gloves and suitable respiratory protection. Small spills should be swept or vacuumed up and disposed of in government approved waste containers. The spill area may then be flushed with large quantities of water. Larger spills should be contained by diking with sand, soil or other non-combustible material, then transferred into approved waste containers for proper disposal. Do not allow spilled, or waste product to flow into waterways. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, and handling and disposal of waste. Incinerate or dissolve in water and neutralize halogen. Wet spills should be collected and neutralized.

**Disposal methods:** Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures.

**Note:** Empty containers can have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.

**Storage & Handling Precautions:** Warning, harmful or fatal if swallowed. Causes eye, skin and respiratory irritation. Avoid contact with eyes and repeated contact with skin and clothing. Do not ingest. Keep container tightly closed when not in use. Store upright in a cool, dry, well-ventilated place away from incompatible materials. Do not use pressure to empty container. Wash thoroughly after handling. Use with adequate ventilation.

**Repair and Maintenance Precautions:** Do not cut, grind, weld or drill in, on or near this container.

## Section 8 - First Aid Measures

**If inhaled:** Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention. Keep patient warm and at rest. Give supplemental oxygen if victim is having trouble breathing.

**In case of eye contact:** Immediately flush eyes with clean water for at least twenty (20) minutes, lifting the upper and lower eyelids to ensure complete flushing action of the eyeball. Get immediate emergency medical attention. Do not transport victim until the recommended flushing period has been completed, unless eye flushing can be carried out during transport.

**In case of skin contact:** Wipe away excess material with a dry cloth then immediately flush skin with plenty of clean running water for at least twenty (20) minutes. Remove contaminated clothing and shoes. If irritation persists, get emergency medical attention. Wash and launder clothes before re-use.

**In case of ingestion or swallowing:** If victim is conscious, dilute stomach contents by giving one or two glasses of water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

## Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all-inclusive, and the manner and conditions of use may involve other and additional considerations.

Revised: 5 July 2004; 27 October 2006; 15 December 2006