

Safety Data Sheet

Product Identifier

Manufacturer's Name: CAPO INDUSTRIES LTD.
Street Address: 1200 Corporate Drive
City: Burlington, Ontario, CANADA
Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)(Transport)

SECTION 1. IDENTIFICATION

Product Identifier	Bromine Tabs
Other Means of Identification	1-Bromo-3-Chloro-5,5-Dimethylhydantoin
Recommended Use	Pool or Spa water disinfectant
Restrictions on Use	Do not mix with other chemicals.
Initial Supplier Identifier	CAPO INDUSTRIES LTD.
Telephone Number	(905) 332-6626 (Non-Transport)

SECTION 2. HAZARD IDENTIFICATION

GHS Classification Oxidizing solid, Category 2
Acute Toxicity, Oral, Category 4
Skin corrosion/irritation, Category 1
Serious eye damage/eye irritation, Category 1

Label Elements



Signal Word Danger

Hazard Statement(s): H272 May intensify fire; oxidizer.
H302 Harmful if swallowed

Bromine Tabs

H314 Causes severe skin burns and eye damage.

Precautionary Statement(s): P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P220 Keep away from clothing and combustible materials.
P260 Do not breathe dust.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/ face protection.
P301+P317 IF SWALLOWED: Get medical help.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P316 Get emergency medical help immediately.
P321 Specific treatment (see first aid on this label).
P363 Wash contaminated clothing before use.
P370+P378 In case of fire: Use water spray, fog (flooding amounts) to extinguish.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.

Other Hazards No information available

NFPA: 3 Health, 0 Fire, 1 Reactivity **Special Hazard Warning: OXIDIZER**

HMIS: 3 Health, 0 Fire, 1 Physical hazards

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms
1-Bromo-3-Chloro-5,5-Dimethylhydantoin	16079-88-2	96.0	DiHalo Tablets

SECTION 4. FIRST-AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing. If person is not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth to mouth resuscitation. Get medical help.

Skin Contact:

Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash contaminated clothing before reuse. Get medical help.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.

Bromine Tabs

Ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get immediate medical attention.

Most Important Symptoms and Effects, Acute and Delayed

Corrosive to skin, and eyes with redness and burning. Irritation to respiratory tract with coughing and shortness of breath.

Immediate Medical Attention and Special Treatment

Probable mucosal damage may contraindicate the use of gastric lavage. Corrosive. Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES**Extinguishing Media**

Suitable Extinguishing Media Water spray, fog (flooding amounts)

Unsuitable Extinguishing Media Do not use halogenated extinguishing agents or foam. Dry chemical or CO₂.

Specific Hazards Arising from the Product CO, CO₂, and Bromine gas.

Special Protective Equipment and Precautions for Fire-Fighters

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment, and Emergency Procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for Containment and Cleaning Up

Isolate area. Prevent further leakage or spillage if safe to do so. DO NOT add water to spilled material. DO NOT use floor sweeping compounds to clean up spills. Avoid creation of dust. Sweep and scoop spilled material into clean, dedicated equipment. Avoid mixing spilled material with other chemicals or debris when cleaning up. Do not flush with water. Keep in suitable, closed 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. Wash spill area with copious amounts of water. Wet spills should be collected, and the Halogen neutralized.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin, or clothing. Avoid formation of dust. Avoid breathing dust. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition. No smoking. Wash hands thoroughly with soap and water after handling.

Conditions for Safe Storage

Keep container tightly closed in a dry and well-ventilated area. Never allow product to get in contact with water during storage. Keep away from food and drinking water. Keep out of reach of children. Store away from incompatible material. Keep away from heat, sparks, and flame. Do not store near acids or bases.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters No occupational exposure limits established.

Appropriate Engineering Controls

Local exhaust ventilation. Ensure eye wash and shower stations are close to work area.

Individual Protection Measures

Eye/Face Protection Safety goggles/glasses or face shield if eye contact is likely.

Skin Protection Nitrile or neoprene gloves if skin contact is likely.

Respiratory Protection

Use NIOSH/MSHA approved dust or vapour mask when airborne exposure limits are exceeded. An approved respirator with an acid gas (for chlorine) and dust prefilter may be adequate.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Opaque white tablets
Odour	Mild bromine odour
Odour Threshold	Not available
pH	4.5 (1% solution)
Melting Point and Freezing Point	120°C (248°F)
Initial Boiling Point and Boiling Range	No information available
Flash Point	No information available
Evaporation Rate	No information available

Bromine Tabs

Flammability (solid, gas)	No information available
Upper and Lower Flammability or Explosive Limit	No information available
Vapour Pressure	No information available
Vapour Density (air = 1)	No information available
Relative Density (water = 1)	0.87-0.92 g/cm ³
Solubility in Water	Soluble in water
Solubility in Other Liquids	No information available
Partition Coefficient, n-Octanol / Water (Log Kow)	No information available
Auto-ignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Stable at normal temperatures and pressure.

Chemical Stability

Stable under normal temperature conditions and recommended uses.

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

Strong acids, strong bases, ammonia, calcium hypochlorite, and combustible materials. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Reducing agent.

Hazardous Decomposition Products CO, CO₂, Bromine gas and unknown toxic gases.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation Skin contact Eye contact Ingestion

Bromine Tabs

Acute Toxicity

LC₅₀ (Inhalation) No data available

LD₅₀ (Oral) 578 mg/kg (Oral, Rat)

LD₅₀ (Dermal) >2000 mg/kg (Dermal, Rabbit)

Ingestion Harmful if swallowed.

Inhalation Inhalation of dust may cause respiratory tract irritation with coughing and shortness of breath.

Skin Corrosion / Irritation

Causes skin burns. On contact with moisture, this material readily hydrolyzes to acid which may result in burns if not promptly removed.

Serious Eye Damage / Irritation

Causes serious eye damage.

STOT (Specific Target Organ Toxicity) - Single Exposure No data available

Aspiration Hazard No data available

STOT (Specific Target Organ Toxicity) - Repeated Exposure No data available

Respiratory and/or Skin Sensitization Not data available

Carcinogenicity No data available

Reproductive Toxicity

Development of Offspring No data available

Sexual Function and Fertility No data available

Effects on or via Lactation No data available

Germ Cell Mutagenicity No data available

Interactive Effects No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life.

Persistence and Degradability No information available

Bioaccumulative Potential No information available

Bromine Tabs

Mobility in Soil

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose material in accordance with federal, provincial, and local regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
TDG	3085	Oxidizing Solid, Corrosive, N.O.S. (1-Bromo-3-Chloro-5,5-Dimethylhydantoin)	5.1 (8)	III
US DOT	3085	Oxidizing Solid, Corrosive, N.O.S. (1-Bromo-3-Chloro-5,5-Dimethylhydantoin)	5.1 (8)	III
IMDG	3085	Oxidizing Solid, Corrosive, N.O.S. (1-Bromo-3-Chloro-5,5-Dimethylhydantoin)	5.1 (8)	III
IATA	3085	Oxidizing Solid, Corrosive, N.O.S. (1-Bromo-3-Chloro-5,5-Dimethylhydantoin)	5.1 (8)	III

Special Precautions 5 kg and under are LIMITED QUANTITY

Environmental Hazards Marine Pollutant

SECTION 15. REGULATORY INFORMATION

Safety, Health, and Environmental Regulations

CANADA

DSL/NDSL: On the inventory, or in compliance with the inventory.

PCP: This product is a registered pesticide.

USA

TSCA: On the inventory, or in compliance with the inventory.

FIFRA: This product is a registered pesticide.

EPA Statement: This chemical is a pesticide product registered by the EPA and is subject to certain labeling requirements under federal pesticides law.

SARA (311,312): This product is categorized as an Acute health hazard.

California Proposition 65 This product does not contain any Proposition 65 chemicals.

Bromine Tabs

SECTION 16. OTHER INFORMATION

Prepared By (Group, Department): Quality Assurance

Telephone: (905) 332-6626

Preparation Date: January 1, 1996

Date of Latest Revision: April 18, 2022

Additional Notes or References:

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