SAFETY DATA SHEET

SECTION 1 MATERIAL NAME / IDENTIFIER

BROMINATING TABLETS

WHMIS: Not regulated under WHMIS. It is regulated under Pest Control Product Act (PCP)

Manufacturer's Name: **CAPO INDUSTRIES LTD**
Street Address: **1200 CORPORATE DRIVE**
City: **BURLINGTON, ONTARIO**
Postal Code: **L7L 5R6**

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

Chemical Name: 1-Bromo-3-Chloro-5,5-Dimethylhydantoin

Chemical Family: Not Applicable

Chemical Formula: Not Applicable

Trade Name & Synonyms: Not Applicable

Molecular Weight: Not Applicable

Material Use: Pool water disinfectant

SECTION 2 HAZARDS IDENTIFICATION

GHS classification:

Oxidizing solid, Category 2
Acute toxicity, oral, Category 4
Skin corrosion/irritation, Category 1C
Skin Sensitization, Category 1
Hazardous to the aquatic environment, acute hazard, Category 1

Symbol(s):

Signal Word: Danger

Hazard statements:

H272 May intensify fire; oxidizer.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause allergic skin reaction.
H400 Very toxic to aquatic life.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P220 Keep away from clothing and other combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P260 Do not breathe dust.
P264 Wash hands 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.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician.
P321 Specific treatment (see first aid on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use water spray for extinction.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.

HMIS: 3 Health hazard, 0 Flammability, 1 Reactivity

NFPA: 3 Health hazard, 0 Flammability, 1 Instability

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SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
1-Bromo-3-Chloro-5,5-Dimethylhydantoin	16079-88-2	60-100

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. Obtain medical aid. Administer artificial respiration if required.

Skin Contact: Flush with plenty of water, then wash with soap and water. Wash contaminated clothing before reuse.

Eye Contact: Flush eyes with plenty of water for 15 minutes. Seek medical attention.

Ingestion: Drink 2 to 3 glasses of water. Obtain medical assistance immediately. Do not induce vomiting. If vomiting occurs, give fluids again. Have physician determine if patients condition allows the induction of vomiting.

Note to physicians: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: If fire is fueled by other materials, may release bromine gas.

Unusual Fire or Explosion Hazards: None known.

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable

Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Flood with large amounts of water.

Instructions to the Fire Fighters: In large fires fueled by other materials, this product may smolder for prolonged periods emitting a dense black smoke. Do not let fire burn.

Fire Fighting Protective Equipment: In the event of fire, wear self-contained breathing apparatus. Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Using appropriate protective clothing and safety equipment, contain spilled Material. Do not add water to spilled material. Using clean dedicated equipment, Sweep and scoop all spilled material into clean container 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

HANDLING

Handling Practices: Strong oxidizing agent. Avoid contact with skin, eyes and clothing. Do not mix with anything except water.

Ventilation Requirements: General exhaust ventilation.

Other Precautions: Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.

STORAGE

Ventilation Requirements: Cool and well ventilated area away from heat and sunlight.

Storage Requirements: Store in original container. Keep out of reach of children and keep away from animals.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust to remove dust.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Neoprene or rubber gloves.

Eye (Specify): Safety glasses.

Respiratory (Specify): Organic vapour mask if prolonged use in non-ventilated area is unavoidable.

Other (Specify): Wear protective clothing to minimize skin contact.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: **Gas** **Liquid** **Solid X**

Odour & Appearance: Opaque, white, mild bromine odour.

Odour Threshold (ppm): Not applicable

Flammability: **Yes** **No X**

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not available

Lower Explosion Limit (% By Volume): Not applicable.

Upper Explosion Limit (% By Volume): Not applicable

Decomposition Temperature (°C): Decomposes at 165°C

Specific Gravity: Not applicable

Viscosity (cps): Not applicable

Vapour Pressure (mm):	Not applicable
Vapour Density (Air-1):	Not applicable
Flashpoint (°C)	Not flammable
Evaporation Rate	Not applicable
Boiling Point (°C):	Not applicable
Freezing Point (°C):	120 - 148°C
Solubility In Water (20°C):	0.54 g/100 g @ 24°C
% Volatile (By Weight)	<0.5%
PH:	Not available
Coefficient Of Water/Oil Distribution:	Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	**Yes**	**X**	**No**
If No, Under Which Conditions?:	Not applicable		
Incompatibility To Other Substances:	**Yes**	**X**	**No**
If So, Which Ones:	Strong acids and alkalis, high storage temperatures, organic materials Ammonia bearing compounds, strong reducing agents and moisture.		
Conditions to Avoid:	Do not mix with anything other than water.		
Hazardous Decomposition Products:	CO, CO2, Bromine gas plus unknown toxic gases.		

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation:	Causes respiratory tract irritation.
Skin Contact:	Causes skin burns. On contact with moisture, this material readily hydrolyzes to acid which may result in burns if not promptly removed.
Eye Contact:	Causes serious eye damage.
Ingestion:	Harmful is swallowed.
Chronic Exposure:	None known.
Other Health Effects:	None known.
LD 50 of Material (Specify Species and Routes)	Oral, Rat: 578 mg/kg, Dermal, Rabbit: >2000 mg/kg
LC 50 of Material (Specify Species and Routes)	Inhalation, Rat: Not Available
Exposure (Limits):	Not available
Irritancy of Material	Irritant to skin, eyes and mucous membranes.
Sensitization of Material	Sensitization may be induced through repetitive contact.
Synergistic Materials	None known.

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to fish and aquatic organisms.

Toxicity to fish

Rainbow trout: LC50: 0.65 mg/l
Exposure time: 96 h

Daphnia: LC50: 0.87 mg/l
Exposure time: 48 h

Bioaccumulation: No data available

Biodegradability: Readily biodegradable

Mobility In Soil: Not available.

SECTION 13 DISPOSAL CONSIDERATIONS

Deactivating Chemicals: None required.

Waste Disposal: Remove spilled, contaminated or left over material to approved landfill site or dispose material in accordance with Federal, Provincial or local government regulations.

Safe Handling of Residues: Same as above.

Disposal of Packaging: Do not re-use empty containers. Rinse thoroughly before discarding in trash.

SECTION 14 TRANSPORTATION INFORMATION

DOT

UN number : 3085
Description of the goods : OXIDIZING SOLID, CORROSIVE, N.O.S. (1-Bromo-3-Chloro-5,5-Dimethylhydantoin)
Class : 5.1
Packing Group : III
Labels : 5.1 (8)
Environmentally hazardous : no

TDG

UN number : 3085
Description of the goods : OXIDIZING SOLID, CORROSIVE, N.O.S.(1-Bromo-3-Chloro-5,5-Dimethylhydantoin)
Class : 5.1
Packing Group : III
Labels : 5.1 (8)

Environmentally hazardous : no

IATA

UN number : 3085
Description of the goods : OXIDIZING SOLID, CORROSIVE, N.O.S.(1-Bromo-3-Chloro-5,5-Dimethylhydantoin)
Class : 5.1
Packing Group : III
Labels : 5.1 (8)
Environmentally hazardous : no

IMDG

UN number : 3085
Description of the goods : OXIDIZING SOLID, CORROSIVE, N.O.S.(1-Bromo-3-Chloro-5,5-Dimethylhydantoin)
Class : 5.1
Subsidiary hazard class : 8
Packing Group : III
EmS Number 1 : F-A
EmS Number 2 : S-Q

Marine pollutant : yes
Environmentally hazardous : yes

SECTION 15 REGULATORY INFORMATION

CANADA

DSL/NDSL Complies
WHMIS: E, C

USA

TSCA Complies
SARA 311/312 Hazard Categories: Acute health hazard
California Proposition 65: This product does not contain any Proposition 65 chemicals.
EPA Statement: This chemical is a pesticide product registered by the EPA and is subject to certain labeling requirements under federal pesticides law.

INTERNATIONAL: Not available

SAFETY DATA SHEET

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): **Quality Control** **Telephone:** **(905) 332-6626**

Preparation Date: **January 1, 1996**
Date Revised: **December 1, 2016**

Additional Notes Or References:

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