

Material Safety Data Sheet

WHMIS 	Protective Clothing 	TDG Road/Rail 
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SECTION I - PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

Product name: AQUA BROMINATING **Effective Date:** 01/01/2010 **Code No.:** 03200
Product use: Pool Chemical
WHMIS: Regulated by PCP Act, Agriculture Canada
TDG: TDG CLASS 5.1: Oxidizing substance.
 Shipping Name: 1-Bromo-3-Chloro-5,5-dimethylhydantoin, Class 5.1 UN: 1479 PG: II.
Manufacturer: **Supplier:**
 Lawrason's Inc.
 460 Wyecroft Road
 Oakville, ON, L6K 2G7
 Tel: (905) 842-8300
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SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS #	Wt%	ACGIH-TLV	LC ₅₀ /LD ₅₀
1) 1-Bromo-3chloro-5,5-dimethylhydantoin	16079-88-2	60	0.2 mg/m3	
2) 1,3-Dichloro-5,5-dimethylhydantoin	118-52-5	28	0.2 mg/m3	
3) 1,3-Dichloro-5-ethy-5-methylhydantoin	89415-87-2	11	0.2 mg/m3	
4) Sodium chloride	7647-14-5	1	None established	

SECTION III - PHYSICAL DATA

Boiling point: Not applicable	Specific Gravity: Not known
Vapour Pressure: Not applicable	Vapor Density: Not applicable
Solubility in Water: 5 g/l @25 C	Percent Volatile: Not available
Physical State: Solid	Evaporation Rate: <1
Appearance and Odour: Off-white. Pungent.	pH (as supplied): 3.6 (10 g/l) @25 C
	Viscosity: Not applicable

SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Strong oxidizers can cause ignition of combustible or oxidizable materials.
Flash Points: 287 F (COC)
Flammable Limits: Not Applicable
Hazardous Combustion Products: Yes, by open flame, sparks, excessive heat, smoking and other sources of ignition. Toxic fumes.
Means of Extinction: Dry chemical, carbon dioxide, foam, water fog. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.
Special Fire Hazards: Cool containing vessels with flooding quantities of water until well after fire is out.

SECTION V - REACTIVITY DATA

Stability: This product is stable
Incompatibility: Strong acids and alkalis, phenolics moisture oxidizing materials
Hazardous Decomposition Products: Bromine, chlorine Possible oxides of nitrogen and carbon.

SECTION VI - TOXICOLOGICAL PROPERTIES

Routes of Entry	Skin contact, eye contact, inhalation
Acute Effects on Humans:	Corrosive to skin and eyes on contact. Excessive inhalation of vapours may cause irritation to the eyes, nose and throat, headaches, nausea, vomiting, dizziness, giddiness, difficulty breathing and blurred vision. Irritating to eyes, skin and respiratory tract.
Chronic Effects on Humans:	Skin and eye irritant.
Synergistic Materials:	Not known

SECTION VII - PREVENTIVE MEASURES

Gloves:	Rubber or neoprene gloves.
Eye Protection:	Safety glasses recommended.
Respiratory Protection:	NIOSH/MSHA approved mechanical filter respirator.
Other Protective Equipment:	Eye bath Clothing suitable to prevent skin contact.
Engineering Controls:	Good general ventilation should be sufficient to control airborne levels.
Leak and Spill Procedure:	Collect into waste container. Do not get water inside container. Avoid generating excessive dust. Consult your local or regional authorities. DO NOT FLUSH TO SEWER.
Waste Disposal:	Dispose of in compliance with all Federal, Municipality or local laws and regulations.
Storage Requirements:	Store in a cool, dry, well ventilated area, away from heat and ignition sources. Keep drums and containers closed when not in use.

SECTION VIII - FIRST AID

Eye:	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get prompt medical attention.
Skin:	Corrosive to skin and eyes on contact. Flush affected area immediately with tepid water for at least 15 minutes. Get medical help promptly.
Inhalation:	Remove to fresh air. If person feels unwell, get medical attention
Ingestion:	Give victim 3-4 glasses of milk or water. DO NOT induce vomiting. Get medical attention.

SECTION IX - OTHER INFORMATION

References -Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987.
-Manufacturer's Material Safety Data Sheet.

Additional remarks:

Validated by Lawrason's Inc on 01/01/2010.

Verified by Lawrason's Inc.

Printed 20/01/2010.

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