



***SANI-MARC**

*Les Produits. Et les Hommes.
People and Their Products.*

Material Safety Data Sheet

WHMIS	TDG Road/Rail

Section I. Product Identification and Uses

Trade name	BROMI-BEC (SANI-MARC)	Health Hazard	*	3
Code	30-10055	Fire Hazard		1
Supplier	SANI-MARC INC. 42 boul. de l'Artisan, Victoriaville, Qc (819) 758-1541	Reactivity		0
Manufacturer	SANI-MARC INC. 42 boul. de l'Artisan, Victoriaville, Qc (819) 758-1541	Personal Protection		G
Material uses	Consumer products: Controls bacteria and algae in swimming pool waters.	Protective Clothing		
		Governmental Approbations		
		PCP# 23643		

Section IA. First Aid Measures

Eye contact	Check for and remove any contact lenses. DO NOT use an eye ointment. Seek medical attention.
Skin contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Hazardous skin contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Slight inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Hazardous inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Slight ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Hazardous ingestion	No additional information.

Section II. Hazardous Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC ₅₀ /LD ₅₀
1-Bromo-3-Chloro-5,5-Dimethyl Hydantoin	32718-18-6	60-100	Not available.	ORAL (LD50): Acute: 1500 mg/kg [Rat]. DERMAL (LD50): Acute: 2000 mg/kg [Rat].

Section III. Physical Data

Physical state and appearance	Solid. (Tablet solid)	Color	White.
pH (Pure)	Not available.	Odor	Halogen (Slight.)
pH (1% soln/water)	4 (Conc. (% w/w): 1) [Acidic.]		
Odor threshold	Not available.		
Volatility	Not available.		
Freezing point	Decomposes.		
Boiling/Condensation point	Not available.		
Specific gravity	1.8 (Water = 1)		
Vapor density	Not available.		
Vapor pressure	Not available.		
Evaporation rate	Not available.		
Viscosity	Not available.		
Water/oil dist. coeff.	Not available.		
Ionicity (surface active agent)	Not available.		
Critical temperature	Not available.		
Instability temperature	Not available.		
Conditions of instability	No additional remark.		
Dispersion properties	Is not dispersed in cold water, hot water.		
Solubility	Insoluble in cold water, hot water.		

Section IV. Fire and Explosion Data

The product is:	May be combustible at high temperature.
Auto-ignition temperature	Not available.
Fire degradation products	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...), halogenated compounds.
Flash points	Not available.
Flammable limits	Not available.
Fire extinguishing procedures	Oxidizing material. DO NOT use water jet. Use flooding quantities of water. Avoid contact with organic materials.
Flammability	Flammable in presence of open flames and sparks, of heat.
Risks of explosion	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Highly explosive in presence of organic materials.

Section V. Reactivity Data

Stability	The product is stable.
Hazardous decomp. products	These products are halogenated compounds.
Degradability	Not available.
Products of degradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are as toxic as the original product.
Corrosivity	No specific information is available in our database regarding the corrosivity of this product in presence of various materials.
Reactivity	Highly reactive with organic materials, alkalis. Non-reactive with reducing agents, combustible materials, metals, acids, moisture.

Section VI. Toxicological Properties

Routes of entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
TLV	Not available.
Toxicity for animals	Acute oral toxicity (LD ₅₀): 1500 mg/kg [Rat]. Acute dermal toxicity (LD ₅₀): 2000 mg/kg [Rat].
Chronic effects on humans	Very hazardous in case of skin contact (corrosive, irritant, sensitizer, permeator), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Non-sensitizer for lungs. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.
Acute effects on humans	Very hazardous in case of skin contact (corrosive, irritant, sensitizer, permeator), of eye contact (irritant, corrosive), of ingestion, of inhalation (lung irritant, lung corrosive). Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Section VII. Preventive Measures

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Waste information	Not available.
Waste stream	Not available.
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.
Precautions	Keep away from heat. Keep away from sources of ignition. Keep away from combustible materials. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT ingest. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, organic materials, alkalis.
Small spill and leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.
Large spill and leak	Stop leak if without risk. Do not get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing...). Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate.
Protective clothing	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

Section VIII. Classification

TDG road / rail	CLASS 5.1: Oxidizing material.	
	Shipping name: OXIDIZING SOLID, N.O.S. (BROMO-CHLORO-DIMETHYLHYDANTOIN), 5.1, UN1479, GE II (Ltd. Qty. Index, 1 Kg)	
Maritime transportation	Not available.	
WHMIS	Not controlled under WHMIS (Canada).	
Federal and provincial regulations	CEPA DSL: No products were found.	

Section IX. Protective Measures

Protective clothing	Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves (impervious).	
Engineering controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	

Section X. Other Information

References	Not available.
No additional remark.	
Validated by Service Santé et Sécurité on 11/07/2003.	Verified by Service Santé et Sécurité. Printed 11/07/2003.

Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)

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