



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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MATERIAL SAFETY DATA SHEET

C-3500

Protection Required



SECTION 1 - MATERIAL IDENTIFICATION AND USE

Manufacturer's Name : PMC Water Systems Services Inc.
Manufacturer's Address : 124 Connie Crescent, Unit 9, Concord, ON L4K 1L7
Manufacturer's Phone # : (905) 669-8262
24 Emergency Phone # : Canutec (613) 996-6666
Product Identifier : C-3500
Product Use : Water Treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
1-bromo-3-chloro-5, 5-dimethylhydantoin	96%	16079-88-2	578 mg/kg (oral - rat)	Not Available

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Statement May intensify fire; oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage.
Precautionary Statement Keep away from heat/sparks/open flames/hot surfaces. – no smoking. Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapours/spray. wear protective gloves/protective clothing/eye protection/face protection. Wash skin thoroughly after handling. In case of fire: use only water for extinction. Store locked up. Dispose of contents/container to appropriate waste site or reclaimer in accordance with local and national regulations. **If swallowed** - call a poison center or doctor/physician if you feel unwell. **If swallowed** - rinse mouth. Do not induce vomiting. **If inhaled** - remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. **If in eyes** - rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **If on skin (or hair)** - Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

SECTION 4 – FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if present. Call a physician or poison control centre immediately.
Skin Contact Remove contaminated clothing and shoes. Immediately rinse with plenty of water for at least 15 minutes. Call all a physician or poison control centre immediately.
Inhalation Remove victim to fresh air. If victim is not breathing, call 911 or an ambulance, then give artificial respiration. Call a physician or poison control centre immediately.
Ingestion Call a physician or poison control centre immediately. Have victim sip a glass of water if able to swallow. Do not induce vomiting unless directed to do so by a physician or poison control centre. Never give anything by mouth to an unconscious or convulsing person.
Notes to Physician Probably mucosal damage may contraindicate the use of gastric lavage.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability Non-flammable
Flash Point Not Applicable
Autoignition Temperature Not Available

Extinguishing Media	Flood with large volumes of water. Do not use ABC powder or dry chemical due to risk of violent reaction.
Special Procedures	Firefighters should wear full protective clothing including self-contained breathing equipment.
Hazardous Combustion Products	When involved in a fire, this product may generate hydrogen chloride, nitrogen oxides, carbon monoxide, hydrogen bromide, or bromine, carbon dioxide, nitrogen and irritating/toxic fumes and gases.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective equipment.
Environment Precautions	Ensure spilled product does not enter sewers or streams.
Spill Response/Cleanup	Contain spilled material. Sweep and scoop all spilled material, contaminated soil and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material; containers should be left open to disperse any hazardous gases that may form. Do not use floor sweeping compounds to clean up spills.
Prohibited Materials	Do not add water to spilled material.

SECTION 7 – HANDLING AND STORAGE

Handling	Strong oxidizing agent. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of dust and vapours. Do not mix with other chemicals. Mix only with water; never add water to this product. Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.
Storage Requirements	Store in a cool, dry, well-ventilated area. Store in original container. Keep containers tightly closed. Protect against moisture, water and physical damage.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	Use only in well ventilated areas. Use local exhaust if mist or spray is generated.
Respiratory Protection	For dusty or misty conditions, wear NIOSH-approved dust or mist respirator.
Skin Protection	Rubber gloves. Chemical resistant clothing and boots
Eye/Face Protection	Goggles, safety glasses with side shields.
Other Comments	An eyewash station and safety shower should be available
General Hygiene	Wash hands thoroughly with soap and water after handling this product and before eating, drinking or using tobacco. Wash contaminated clothing before reuse.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Solid
Odour and Appearance	:	Faint halogen odour; white tablets
Odour Threshold	:	Not Available
Specific Gravity (Water = 1)	:	Not Available
Vapour Pressure (mmHg)	:	Not Applicable
Vapour Density (Air = 1)	:	Not Applicable
Evaporation Rate	:	Not Applicable
Boiling Point	:	Not Applicable
Freezing Point	:	Not Applicable
pH	:	4.5 (90.1% solution in distilled water)
Coefficient Water/Oil Distribution	:	Not Applicable
Solubility in Water	:	0.15g/100g water

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable under normal conditions of handling and storage.
Incompatible Materials	Avoid contact with water on concentrated material in container. Avoid contact with easily oxidizable material; ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; concentrated forms of other swimming pool/spa chemicals; alkalis. Avoid contact with all other chemicals.
Conditions of Reactivity	High temperatures, poor ventilation, contamination, moisture/high humidity.
Hazardous Decomposition Products	Hydrogen halides, bromine, chlorine, carbon oxides, nitrogen oxides. Thermal decomposition: 180°C
Hazardous Polymerization	Will not occur under normal conditions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Effects of Acute Exposure

Skin Contact	:	Corrosive. Cause skin burns.
Eye Contact	:	Corrosive. Causes serious eye damage
Ingestion	:	Harmful if swallowed.
Inhalation	:	Causes respiratory irritation
Chronic Exposure Effects	:	None know.
Exposure Limit	:	Not Available
Irritancy	:	Corrosive. Direct contact with wet material or moist skin may cause severe irritation, pain and possible burns.
Carcinogenicity	:	No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC and OSHA.
Teratogenicity	:	Not Available
Mutagenicity	:	Not Available
Reproductive Effects	:	Not Available

SECTION 12 – ECOLOGICAL INFORMATION

General Comments Toxic to fish and to aquatic organisms. Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Dispose in accordance with federal, provincial or local government requirements.

SECTION 14 – TRANSPORT INFORMATION

Shipping Regulations UN 1479, Oxidizing Solid, N.O.S. (Bromo-chloro-dimethylhydantoin), Class 5.1, PG III
Domestic Substances List All ingredients are listed on the DSL or are not required to be listed.

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification Class C: Oxidizing Material
Class E: Corrosive Material

SECTION 16 – OTHER INFORMATION

Prepared by Lab Services
PMC Water Systems Services Inc.
124 Connie Crescent, Unit 9
Concord, ON L4K 1L7
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While all the data presented is believed to be accurate at the time of preparation, PMC Water Systems Services Inc. makes no warranty; the data is offered for your consideration, investigation and verification.