



# 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 <sub>50</sub>	LC <sub>50</sub>
1-bromo-3-chloro-5, 5-dimethylhydantoin	96%	16079-88-2	578 mg/kg (oral - rat)	Not Available

#### SECTION 3 – HAZARDS IDENTIFICATION

**Potential Health Effects** Signs and Symptoms of Short-Term (Acute) Exposure  
**Eye Contact** Causes serious eye damage  
**Skin Contact** Causes skin burns. On contact with moisture, this material readily hydrolyzes to acid, which may result in burns if not promptly removed.  
**Inhalation** Causes respiratory tract irritation  
**Ingestion** Harmful if swallowed  
**Chronic Effects** None known  
**Medical Notes** Exposure to this product aggravates respiratory disorders and skin disorders.

#### 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** Not Available  
**Temperature**  
**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

<b>Personal Precautions</b>	Wear appropriate protective equipment.
<b>Environment Precautions</b>	Ensure spilled product does not enter sewers or streams.
<b>Spill Response/Cleanup</b>	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.
<b>Prohibited Materials</b>	Do not add water to spilled material.

## SECTION 7 – HANDLING AND STORAGE

<b>Handling</b>	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.
<b>Storage Requirements</b>	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

<b>Ventilation</b>	Use only in well ventilated areas. Use local exhaust if mist or spray is generated.
<b>Respiratory Protection</b>	For dusty or misty conditions, wear NIOSH-approved dust or mist respirator.
<b>Skin Protection</b>	Rubber gloves. Chemical resistant clothing and boots
<b>Eye/Face Protection</b>	Goggles, safety glasses with side shields.
<b>Other Comments</b>	An eyewash station and safety shower should be available
<b>General Hygiene</b>	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

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

## SECTION 10 – STABILITY AND REACTIVITY

<b>Stability/Reactivity</b>	Stable under normal conditions of handling and storage.
<b>Incompatible Materials</b>	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.
<b>Conditions of Reactivity</b>	High temperatures, poor ventilation, contamination, moisture/high humidity.
<b>Hazardous Decomposition Products</b>	Hydrogen halides, bromine, chlorine, carbon oxides, nitrogen oxides. Thermal decomposition: 180°C
<b>Hazardous Polymerization</b>	Will not occur under normal conditions.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Effects of Acute Exposure

<b>Skin Contact</b>	:	Corrosive. Cause skin burns.
<b>Eye Contact</b>	:	Corrosive. Causes serious eye damage
<b>Ingestion</b>	:	Harmful if swallowed.
<b>Inhalation</b>	:	Causes respiratory irritation
<b>Chronic Exposure Effects</b>	:	None know.
<b>Exposure Limit</b>	:	Not Available
<b>Irritancy</b>	:	Corrosive. Direct contact with wet material or moist skin may cause severe irritation, pain and possible burns.
<b>Carcinogenicity</b>	:	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.
<b>Teratogenicity</b>	:	Not Available
<b>Mutagenicity</b>	:	Not Available
<b>Reproductive Effects</b>	:	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  
**Preparation Date** November 28, 2015

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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.

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