



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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SAFETY DATA SHEET C-2003

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-2003
Product Use : Water Treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Sodium Hydroxide	1-5%	1310-73-2	800 mg/kg (oral – rat)	No Data Available
Sodium Borate	1-7%	1330-43-4	2403 mg/kg (oral - rat)	No Data Available
Sodium Molybdate	7-15%	10102-40-6	520 mg/kg (oral - rat)	No Data Available
Sodium Nitrite	7-15%	7632-00-0	85 mg/kg (oral – rat)	5.5 mg/L 4h (inhalation – rat)

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Statement Harmful if swallowed.
Precautionary Statement Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. **If swallowed** - Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Store locked up. Keep out of reach of children. Dispose of contents/container in accordance with local/regional national/international regulations.

SECTION 4 – FIRST AID MEASURES

Eye Contact Wash eyes with plenty of water for at least 15 minutes, holding eyelids open. Seek medical attention immediately after flushing.
Skin Contact Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered. Get medical attention.
Inhalation Remove victim to fresh air. If breathing stops, administer artificial respiration and seek medical aid promptly. If breathing is difficult, get immediate medical attention.
Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Give plenty of water to dilute product. If vomiting occurs, keep victim's head below hips to prevent inhalation of vomited material. **Seek medical help immediately!**
Notes to Physician NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this product. *Moreover, this product can damage the esophagus on the way down and will cause further damage in the reverse direction!* The stomach should be emptied under medical supervision after the installation of an airway to protect the lungs.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability Not Flammable
Flash Point Not Applicable
Autoignition Not Available

Temperature	
Extinguishing media	Use extinguishing media appropriate for surrounding fire. Water is not recommended, but may be applied in large quantities as a fine spray when other extinguishing agents are not available.
Special Firefighting Procedures/Equipment	Evacuate nonessential personnel from fire area. Product reacts with water, possibly violently, which may produce heat and/or gases. Contact with some metals (particularly magnesium, aluminum and galvanized zinc) can rapidly generate hydrogen. Fire fighters must wear full face, positive pressure, self-contained breathing apparatus and appropriate protective clothing.
Explosion Data	Not Applicable
Hazardous Combustion Products	Sodium oxide, peroxides, carbonates may form in fire. Toxic fumes. Metal oxide fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Safety eye goggles. Wear protective clothing and equipment.
Environment Precautions	Avoid discharge to natural waters and sewers.
Spill Response/Cleanup	Isolate hazard area and restrict access. Stop leak if without risk. Dike and contain spill with inert material (sand, earth, etc.) and transfer liquid and solid separately to containers for recovery or disposal. Neutralize with lime or soda ash. Sweep or shovel material into waste container. Flush residue with water.

SECTION 7 – HANDLING AND STORAGE

Handling	Corrosive material. Avoid contact with eyes, skin and clothing. Do not ingest. Do not inhale vapour or mist. Use appropriate personal protective equipment. Use with adequate ventilation. Handle in accordance with good industrial hygiene and safety practices. Keep containers closed when not in use. Empty product containers may contain residue. Follow label warnings even after container is emptied.
Storage Requirements	Store in a cool, dry, well-ventilated area, away from heat and ignition sources. Store in original tightly closed container to prevent moisture absorption and/or contamination. Place away from incompatible materials.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	Good general ventilation should be sufficient for most conditions.
Respiratory Protection	Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator.
Skin Protection	Polyethylene, neoprene or natural rubber gloves, impervious footwear, rubber safety boots.
Eye/Face Protection	Chemical safety goggles; face shield.
Other Comments	An eyewash station and safety shower should be available

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Sodium Hydroxide	2 mg/m3 Ceiling	2 mg/m3 Ceiling	10 mg/m3
Sodium Tetraborate	6 mg/m3 STEL 2 mg/m3 TLV-TWA	10 mg/m3 TWA	Not Available
Sodium Molybdate	0.5 mg/m3 TWA	5 mg/m3 TWA	Not Available

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Odour and Appearance	:	Slight sweet odour; amber liquid
Odour Threshold	:	Not Available
Specific Gravity (Water = 1)	:	1.05 to 1.15 g/cc
Vapour Pressure (mmHg)	:	Not Available
Vapour Density (Air = 1)	:	Not Available
Evaporation Rate	:	Not Available
Boiling Point	:	100° C, 212° F
Freezing/Melting Point	:	-7° C, 20° F
pH	:	11 – 12 (1% solution)
Coefficient Water/Oil Distribution	:	Not Applicable
Solubility in Water	:	Soluble

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable
Conditions for Instability	Heat, water, moisture or humidity.
Incompatible Materials	Reacts violently with many chemicals including: water, organic acids, inorganic acids, oxidizing agents

and glycols. Corrosive to alloys of aluminum, zinc, tin and copper releasing hydrogen. Damages leather, wool and some other textiles. Contact with water causes violent frothing and spattering. Flammable hydrogen may be generated from contact with metals such as: aluminum, brass, tin, zinc. Avoid contact with acids, halogenated organics, organic nitro compounds, glycols. Caustic soda solution reacts readily with various reducing sugars (fructose, galactose, maltose, dry whey solids) to produce carbon monoxide. Oxides of sodium and molybdenum. Metal oxide fumes. Toxic gases and vapors may be released in a fire.

Hazardous Decomposition Products
Hazardous Polymerization

Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry	:	Eyes, skin, respiratory and digestive system. May be absorbed through skin.
Skin Contact	:	Brief contact may cause skin burns and irritation.
Eye Contact	:	Can cause eye burns. Small quantities can result in permanent damage and/or loss of vision.
Ingestion	:	Can cause burns to mouth, esophagus and stomach.
Inhalation	:	Can cause damage to upper respiratory tract and lung tissue.
Chronic Exposure Effects	:	Chronic inhalation exposure may lead to emphysema and chronic bronchitis. Chronic skin contact may cause dermatitis. Prolonged or repeated ingestion or skin absorption may cause anorexia, weight loss, vomiting, mild diarrhea, skin rash, convulsions and anemia.
Irritancy	:	Irritant
Sensitization	:	Not Available
Carcinogenicity	:	Not Available. Sodium tetraborate listed as class A4 carcinogen by ACGIH.
Teratogenicity	:	Not Available
Mutagenicity	:	Not Available
Reproductive Effects	:	Not Available

SECTION 12 – ECOLOGICAL INFORMATION

General Comments Toxic to aquatic life. May increase pH of waterways and adversely affect aquatic life.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Dispose in accordance with federal, provincial or local government requirements. Contact your local, provincial or federal environmental agency for specific regulations.

SECTION 14 – TRANSPORT INFORMATION

TDG Shipping Regulations Not TDG Regulated

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification Class D2B: Toxic Material
Class E: Corrosive Material

Domestic Substances List All ingredients are listed on the DSL or are not required to be listed.

SECTION 16 – OTHER INFORMATION

Prepared by: Lab Services
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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.