



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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SAFETY DATA SHEET B-3501

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 : B-3501
Product Use : Boiler Water Inhibitor

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Potassium Hydroxide	8-15%	1310-73-2	205 mg/kg (oral – rat)	No Data Available
Phosphonic Acid	1-5%	2809-21-4	2400 mg/kg (oral – rat)	No Data Available
Sodium Polymethacrylate	1-5%	54193-36-1	1000 mg/kg (oral – rat)	No Data Available

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Statement Causes severe skin burns and eye damage. May be corrosive to metals
Precautionary Statement Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a Poison Center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep only in original packaging. Absorb spillage to prevent material damage. Store in a closed container. Store locked up. Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

SECTION 4 – FIRST AID MEASURES

Eye Contact Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is any irritation.
Skin Contact Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
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 Give plenty of water to dilute product. Do not induce vomiting. Keep victim quiet. If vomiting occurs, keep victim's head below hips to prevent inhalation of vomited material. Seek medical help immediately!

SECTION 5 - FIRE FIGHTING MEASURES

Flammability Not Flammable
Flash Point Not Applicable
Autoignition Temperature Not Applicable
Extinguishing Media Does not burn. 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 Evacuate nonessential personnel from fire area. Product reacts with water, possibly violently. Reaction may

Procedures/Equipment produce heat and/or gases. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. 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 Potassium oxide, peroxides, carbonates may form in fire

NFPA Ratings Health 3, Flammability 0, Instability 1 **HMIS Ratings** Health 3, Flammability 0, Reactivity 1

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 are 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. Product has a shelf life of 24 months. Storage Temperature: >16°C (>60.8°F).

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
Potassium Hydroxide	2 mg/m3 Ceiling	2 mg/m3 Ceiling	10 mg/m3

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) : 1.06 to 1.08 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 : -10 to -15°C, 14 to 5° F

pH : 12 - 13

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 Aluminum, tin, zinc, sodium borohydride, chlorine dioxide, nitrosomethylurea, tetrahydrofuran, maleic anhydride, nitrogen trichloride, nitrolalkanes, 2,4,5-trinitrotoluene, ammonium hexachloroplatinate, nitroaryl compounds, nitrobenzene, 2-nitrophenol, acetaldehyde, acrolein, acrylonitrile, allyl alcohol, 1,2-dichloroethylene, trichloroethylene, tetrachloroethane, phosphorus, potassium peroxodisulfate, hypoxynitrous acid, sugars, mineral acids, acetic acid, chloroform, methanol. Oxides of potassium

Hazardous Decomposition Products Potassium oxide fumes may be generated by thermal decomposition at high temperatures.
Hazardous Polymerization Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry : Eyes, skin, respiratory and digestive system Absorbed through skin.
Skin Contact : Brief contact may cause severe skin burns
Eye Contact : Causes severe burns. Small quantities can result in permanent damage and/or loss of vision
Ingestion : Can cause severe 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 respiratory disorders, such as emphysema and chronic bronchitis. Chronic skin contact may cause dermatitis.
Irritancy : Irritant
Sensitization : Not Available
Carcinogenicity : Not Available
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 UN 1760, Corrosive Liquid, N.O.S. (Potassium Hydroxide), Class 8, PG III

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
PMC Water Systems Services Inc.
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Concord Ontario L4K 1L7
Preparation Date: September 10, 2018

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.