

PMC WATER SYSTEMS SERVICES INC. 124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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SAFETY DATA SHEET **C-1000-AOUA**



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

Manufacture's Phone # (905) 669-8262 :

24 Emergency Phone # Canutec (613) 996-6666

Product Identifier C-1000-AOUA

Product Use Corrosion inhibitor and scale control

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Concentration CAS# LD_{50} LC50 **Ingredients** 8-15% 1310-58-3 273 mg/kg, oral - rat No Data Available Potassium Hydroxide

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Statement

Harmful if swallowed, Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life.

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) - Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. If inhaled - Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse. Avoid release to the environment. Store locked up. Dispose of contents/container in accordance with local/regional national/international regulations.

SECTION 4 – FIRST AID MEASURES

Acute Health Effects

Caution: Potassium Hydroxide burns can be painless and may not warn of dangerous injury

Eye Contact

CORROSIVE. Contact causes severe burns with redness, swelling, pain and blurred vision. Causes eye burns. Irreversible damage to the eyes. Wash eyes with plenty of water, holding eyelids open. Seek medical assistance

promptly if there is any irritation.

Skin Contact

CORROSIVE. Contact can cause pain, itching, redness, scaling, burns, and blistering. Permanent scarring can result. Severe exposure can cause death. Burns may not be immediately painful; onset of pain may be delayed minutes to hours. 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!

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 Applicable

Temperature

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 Procedures/Equipment

Evacuate nonessential personnel from fire area. Product reacts with water, possibly violently. Reaction may 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 Potassium oxide, peroxides, carbonates may form in fire

Products

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

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions
Environment Precautions

Safety eye googles. 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.

Eve/Face Protection Chemical safety googles; 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 : Mild Odour; Dark Amber Liquid

Odour Threshold:Not AvailableSpecific Gravity (Water = 1):1.10 to 1.16 at 15°CVapour Pressure (mmHg):Not AvailableVapour Density (Air = 1):Not AvailableEvaporation Rate:Not AvailableBoiling Point:110° C, 230° F

Freezing/Melting Point : -4° C, 24.8° 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 Reacts violently with many chemicals including: was

Oxides of potassium

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.

Hazardous Decomposition

Products

Hazardous Polymerization

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry: Eyes, skin, respiratory and digestive system Absorbed through skin.

Hazardous polymerization will not occur.

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 stomachInhalation: 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. Repeated or prolonged contact with spray mist may produce chronic eye irritation, severe skin irritation and respiratory tract irritation leading

to frequent attacks of bronchial infection.

Irritancy:IrritantSensitization:Not AvailableCarcinogenicity:Not AvailableTeratogenicity:Not AvailableMutagenicity:Not AvailableReproductive 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 3266, Corrosive Liquid, Basic, Inorganic, Class 8, PG III

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification Class D1B: Toxic Material

Domestic Substances ListAll 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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Preparation Date: May 3, 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.