



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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MATERIAL SAFETY DATA SHEET

Closed Loop pH Down

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 : Closed Loop pH Down
Product Use : Water Treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

| Ingredients | Concentration | CAS # | LD ₅₀ | LC ₅₀ |
|--|---------------|------------|--------------------------|-------------------|
| Diethylenetriaminepenta (methylene-phosphonic acid) | 10-30% | 15827-60-8 | 7,180 mg/kg (oral – rat) | No Data Available |

SECTION 3 – HAZARDS IDENTIFICATION

Acute Health Effects Causes eye burns. Causes skin irritation. Contains material that may cause target organ damage. May cause respiratory irritation.

Eye Contact Corrosive. May cause burns and irritation to eyes, which may result in permanent injury.

Skin Contact Irritating to skin.

Inhalation May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion May cause burns to mouth, throat and stomach. May be harmful if swallowed.

Chronic Health Effects Contains material which causes damage to the lungs, respiratory tract, skin and eyes.

SECTION 4 – FIRST AID MEASURES

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting eyelids open. Remove contact lenses if present. Get medical attention immediately.

Skin Contact Wash affected area with soap and water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered. Seek medical attention if irritation occurs or persists.

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. If victim is conscious and alert, give 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 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability Not Flammable

Flash Point Not Available

Autoignition Not Available

Temperature

Extinguishing Media Dry chemical, CO₂, water spray or foam for surrounding fire.

Special Firefighting Evacuate nonessential personnel from fire area. Fire fighters must wear full face, positive pressure, self-contained breathing apparatus and appropriate protective clothing.

Procedures/Equipment

Hazardous Combustion Products Carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides, phosphines.
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 area and restrict access. Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush area with water. Neutralize washings with soda ash or lime.

SECTION 7 – HANDLING AND STORAGE

Handling 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. Suitable storage materials include glass lining, PVC, polypropylene, glass reinforced plastic, polyethylene, lined metal and plastic pail.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid
Odour and Appearance : Mild odour; dark amber
Odour Threshold : Not Available
Specific Gravity (Water = 1) : 1.10 to 1.20 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 : -2° C, 28.4° F
pH : <2
Coefficient Water/Oil Distribution : Not Applicable
Solubility in Water : Completely miscible

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity Stable
Conditions for Instability No specific data.
Incompatible Materials Corrosive to aluminum, mild steel and carbon steel. Contact with oxidizers, acids, alkalis and high temperatures.
Hazardous Decomposition Products Carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides.
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 : No chronic effects reported.
Irritancy : Moderate irritant
Sensitization : Not Available
Carcinogenicity : Not Available
Teratogenicity : Not Available
Mutagenicity : Not Available
Reproductive Effects : Not Available

SECTION 12 – ECOLOGICAL INFORMATION

General Comments Hazardous to environment, minimize/prevent product from contacting soils or plants. This product should not be dumped, spilled, rinsed or washed into sewers or public waterways. May cause long-term adverse effects in the aquatic environment.

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 3265, Corrosive Liquid, Acidic, Organic, NOS, (Phosphonic Acid Solution) 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
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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.
