



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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MATERIAL SAFETY DATA SHEET

C-2015

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-2015
Product Use : Water treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Phosphonic Acid	1-5%	2809-21-4	2400 mg/kg (rat)	No Data Available
Sodium Hydroxide	1-5%	1310-73-2	400mg/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)
Glycol Ether EB	1-5%	111-76-2	470 mg/kg (oral – rat)	450 ppm 4h (inhalation - rat)

SECTION 3 – HAZARDS IDENTIFICATION

Eye Contact : May irritate eyes.
Skin Contact : Concentrated aqueous solutions or prolonged contact with dust may cause local irritation.
Inhalation : Causes irritation of the lungs and respiratory tract. Large amounts may cause systemic effects as nitrites are readily absorbed by lung tissue.
Ingestion : Irritation of the mouth, throat, and stomach. Ingestion of larger amounts can result in acute toxic effects with nausea, conversion of haemoglobin to methemoglobin, marked reduction in blood pressure, unconsciousness, coma and possible death.

SECTION 4 – FIRST AID MEASURES

Eye Contact : In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
Skin Contact : Remove contaminated clothing and launder before reuse. Flush with large amounts of soap and water. Get medical attention if irritation persists.
Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion : If conscious, wash out mouth with water. Do not give anything by mouth to an unconscious person. Do not induce vomiting. Seek immediate medical attention.
Notes to Physician : Treatment based on sound judgment of physician and individual reactions of patient. Aspiration into the lungs will result in chemical pneumonitis. Symptoms may be delayed.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability : Not Flammable
Flash Point : None
Autoignition : Not Available
Temperature :
Extinguishing Media : Does not burn. Use extinguishing media appropriate for surrounding fire. Water.

**Special Firefighting
Procedures/Equipment**

May explode on severe impact or temperatures above 537 °C. Use fine water spray or fog to control fire spread and cool adjacent structures or containers. Product may melt. Water stream directed at material may scatter it, increasing the flammability of any combustible material it contacts. Supports combustion. May detonate with impact or on heating. May explode and throw fragments 1 mile or more in fire. Evacuate all persons, including emergency responders. Fire fighters should wear full protective clothing, including self-contained breathing equipment.

**Hazardous Combustion
Products**

Oxides of nitrogen.

SECTION 6 – ACCIDENTAL RELEASE MEASURES**Personal Precautions**

Safety goggles. Wear protective clothing and equipment.

Environment Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.

Spill Response/Cleanup

Remove ignition sources and work with non-sparking tools. Scoop up or vacuum up and place in an appropriate closed container. Flush area with water to remove trace residue.

SECTION 7 – HANDLING AND STORAGE**Handling**

Handle and open containers with care. Avoid contact with eyes, skin and clothing. Avoid dust generation and provide for room ventilation during handling. Keep the containers closed when not in use. Empty containers may contain hazardous product residues. Take precautionary measures against static discharges.

Storage Requirements

Store in a cool, dry, well ventilated area. Keep containers tightly closed. Place away from incompatible materials. Separate from acids, reactive metals and ammonium salts. Avoid wooden floors.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**Ventilation**

In confined areas, local and general ventilation should be provided to maintain airborne concentrations below permissible exposure limits.

Respiratory Protection

For dusty or misty conditions, wear NIOSH-approved dust or mist respirator. NIOSH approved supplied air respirator when airborne concentrations exceed exposure limits.

Skin Protection

Nitrile gloves. Neoprene gloves. Polyvinylchloride (PVC) gloves; footwear

Eye/Face Protection

Safety glasses with side shields or chemical goggles.

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; Light Amber Liquid
Odour Threshold	:	Not Available
Specific Gravity (Water = 1)	:	1.10 – 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	:	0°C, 32°F
pH	:	10 - 12
Coefficient Water/Oil Distribution	:	No Data Available
Solubility in Water	:	Soluble

SECTION 10 – STABILITY AND REACTIVITY**Stability/Reactivity**

Stable

Conditions for Instability

Prolonged exposure to air will slowly oxidize the nitrite to nitrate. Temperatures above 320°C cause decomposition.

Incompatible Materials

Strong acids. Oxidizers. Organic matter. Combustible material. Reducing agents. Thiosulfates. Thiocyanates. Ammonium compounds.

**Hazardous Decomposition
Products**

Oxides of carbon and nitrogen may be formed

Hazardous Polymerization

Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Skin Contact	:	Concentrated aqueous solutions or prolonged contact with dust may cause local irritation.
Eye Contact	:	May irritate eyes.
Ingestion	:	Irritation of the mouth, throat, and stomach. Ingestion of larger amounts can result in acute toxic effects with nausea, conversion of haemoglobin to methemoglobin, marked reduction in blood pressure, unconsciousness, coma and possible death.
Inhalation	:	Causes irritation of the lungs and respiratory tract. Large amounts may cause systemic effects as nitrites are readily absorbed by lung tissue.
Chronic Exposure Effects	:	No Data Available
Irritancy	:	Moderate
Sensitization	:	No Data Available
Carcinogenicity	:	Not listed by IARC and ACGIH. Contains nitrites which may react with amines to form nitrosamines. Some nitrosamines have been shown to be carcinogenic in laboratory animals.
Teratogenicity	:	Not Available
Mutagenicity	:	Not Available
Reproductive Effects	:	Not Available

SECTION 12 – ECOLOGICAL INFORMATION

General Comments	Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Block off drains and ditches. Spill areas must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life. This product will dissolve in water.
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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. Empty containers should be recycled or disposed of through an approved waste management facility.
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SECTION 14 – TRANSPORT INFORMATION

TDG Shipping Regulations	Not TDG Regulated
Domestic Substances List	All ingredients are listed on the DSL or are not required to be listed.

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification	Class D2B : Toxic Material
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SECTION 16 – OTHER INFORMATION

Prepared by:	Lab Services PMC Water Systems Services Inc. 124 Connie Crescent, Unit 9 Concord Ontario L4K 1L7
Preparation Date:	March 14, 2016

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.
