



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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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%	2089-21-4	2400 mg/kg, oral – rat	Not Available
Sodium Hydroxide	1-5%	1310-73-2	400 mg/kg, oral – rat	Not Available
Sodium Nitrite	7-15%	7632-00-0	85 mg/kg, oral – rat	5.5mg/L, inhalation - rat
Glycol Ether EB	1-5%	111-76-2	470 mg/kg, oral – rat	450 ppm 4h, inhalation - rat

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Statement Harmful if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Precautionary Statement Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Call a Poison Center/doctor if you feel unwell. If swallowed - Rinse mouth. Call a Poison Center/doctor if you feel unwell. Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with local, regional, national, and/or international regulations.
Other Information May be fatal if large volumes of concentrated product ingested. May cause irritation, nausea, vomiting and diarrhea. Aspiration of vomited contents may cause chemical pneumonitis. Ingestion of large amounts of sodium nitrite component can cause conversion of hemoglobin to methemoglobin, which can cause cyanosis, respiratory issues, possible collapse, coma and death.

SECTION 4 – FIRST AID MEASURES

Eye Contact Flush eyes with abundant water for at least 20 minutes while holding eyelids open to ensure complete irrigation of the entire eye cavity. Get immediate medical attention.
Skin Contact Wash skin with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation 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, wash out mouth with water. Do not give anything by mouth to an unconscious person. Get immediate medical attention.
Notes to Physician All treatments should be based on observed signs/symptoms of distress in the patient. The possibility of overexposure to materials other than this product should be considered

SECTION 5 - FIRE FIGHTING MEASURES

Flammability Non-flammable liquid
Flash Point None
Autoignition

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Temperature	Not Available
Extinguishing media	Does not burn.
Special Firefighting Procedures/Equipment	Firefighters should wear full protective equipment and use approved self-contained breathing apparatus. 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.
Hazardous Combustion Products	Oxides of carbon and nitrogen.
NFPA Ratings	Health 2, Flammability 0, Instability 0
HMS Ratings:	Health 2, Flammability 0, Reactivity 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Safety goggles. Protective clothing and equipment. Ensure adequate ventilation, especially in confined areas.
Environment Precautions	Do not allow this water into open waterways or sewers.
Spill Response/Cleanup	Use full protective equipment. Remove unprotected personnel away from spill area. Ventilate area. Caution: spill area may be slippery. Mop up, and flush area with water. In case of a large spill: Dike spill. Do not allow spill to enter open waterways or sewers. Reclaim all material possible. Absorb remainder with inert material and place in suitable containers for disposal. Flush area with water

SECTION 7 – HANDLING AND STORAGE

Handling	Avoid contact with eyes, skin or clothing. Wash skin thoroughly after handling. Do not breathe mists/ sprays. Remove contaminated clothing and launder before reuse. Keep container closed when not in use. Emptied containers may retain hazardous properties. Read and follow label instructions. Do not contaminate food, water or feed during use or storage of this product. Do not eat or smoke while handling product. Keep out of reach of children
Storage Requirements	Keep container closed when not in use. Store indoors in a cool well-ventilated area away from incompatible materials. Separate from acids, reactive metals and ammonium salts. Keep out of reach of children. Do not reuse container. Avoid wooden floors.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	Good general ventilation should be sufficient for most conditions.
Respiratory Protection	None normally required. Use NIOSH approved respirator if exposure limits are exceeded or irritation occurs.
Skin Protection	Nitrile gloves. Neoprene gloves. 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

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA
Sodium Nitrite	TWA Total Inhalable Particulate 10 mg/m ³	TWA Total Dust 15 mg/ m ³ TWA Respirable Dust 5 mg/m ³
Sodium Hydroxide	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling

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 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	: 0°C, 32°F
pH	: 10 - 12
Solubility	: Soluble

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity	Stable when used and stored as directed.
Conditions to Avoid	Prolonged exposure to air will slowly oxidize the nitrite to nitrate. Temperatures above 320°C cause decomposition.

Incompatible Materials	Do not mix with acids, ammonia compounds, organic matter, combustible material, oxidizing and reducing agents. Thiosulphates. Thiocyanates.
Hazardous Decomposition Products	Oxides of carbon and nitrogen.
Hazardous Polymerization	Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Skin Contact	: Prolonged contact may lead to irritation and dermatitis.
Eye Contact	: May irritate eyes
Ingestion	: Harmful if swallowed. Irritation of the mouth, throat and stomach. Ingestion of larger amounts can result in acute toxic effects with nausea, conversion of haemoglobin to methoglobin, marked reduction in blood pressure, unconsciousness, coma and possible death.
Inhalation	: Cause irritation of respiratory tract.
Chronic Exposure Effects	: No Data Available
Irritancy	: Moderate irritant
Sensitization	: Not 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	: There is no clear evidence of sodium nitrite induced mammalian embryotoxicity or teratogenicity.
Mutagenicity	: Not Available
Reproductive Effects	: Nitrites can cross the placental barrier to generate methemoglobin.

SECTION 12 – ECOLOGICAL INFORMATION

General Comments	Large amounts of sodium metaborate tetrahydrate can be harmful to plants and other species. Sodium nitrite component is very harmful to aquatic organisms in very low concentrations.
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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.
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SECTION 14 – TRANSPORT INFORMATION

TDG Shipping Regulations	Not TDG Regulated
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SECTION 15 – REGULATORY INFORMATION

WHMIS Classification	Class D1B: Toxic 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. 124 Connie Crescent, Unit 9 Concord Ontario L4K 1L7
Preparation Date:	May 23, 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.