



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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SAFETY DATA SHEET C-2010

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-2010
Product Use : Water Treatment/Corrosion Inhibitor

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Sodium Nitrite	20-30%	7632-00-0	80-185mg/kg, oral – rat	1.45-5.5mg/m ³ , rat – 4hr
Sodium Metaborate Tetrahydrate	1-5%	10555-76-7	2330mg/kg, oral – rat	No Data Available

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. Get medical attention.
Inhalation Remove victim to fresh air. Assist breathing as needed. If symptoms persist, get medical attention.
Ingestion Do not induce vomiting. If victim is conscious, give 1 - 2 glasses of water to dilute stomach contents. Get immediate medical attention. Never give anything by mouth to an unconscious person.
Notes to Physician Remove victim to fresh air. If breathing stops, administer artificial respiration and seek medical aid promptly. If breathing is difficult, get immediate medical attention.
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 Temperature Not Available
Extinguishing media Dry chemical, CO₂, water spray or regular foam.

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Special Firefighting Procedures/Equipment Firefighters should wear full protective equipment and use approved self-contained breathing apparatus. Use water spray to cool fire exposed containers to prevent pressure buildup and possible rupture. Caution: Use of water spray when fighting fire may be inefficient. During fire, a water spray can scatter flames and should be used by experienced firefighters. Dike to contain water used in fighting fire.

Explosion Data Not Applicable

Hazardous Combustion Products Oxides of carbon and nitrogen.

NFPA Ratings Health 2, Flammability 0, Instability 0 **HMIS 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. Keep from freezing. Keep out of reach of children. Do not reuse container.

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 Rubber or neoprene gloves are recommended to minimize skin contact.

Eye/Face Protection Chemical splash 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 Metaborate Tetrahydrate	TLV 10mg/m ³	PEL 15 mg/m ³ , Total Dust 5 mg/m ³

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid

Odour and Appearance : Mild organic odour; clear to slightly hazy light yellow coloured liquid

Odour Threshold : Not Available

Specific Gravity (Water = 1) : 1.137 to 1.167

Vapour Pressure (mmHg) : Not Available

Vapour Density (Air = 1) : Not Available

Evaporation Rate : Not Available

Boiling Point : 100° C, 212° F

Freezing/Melting Point : Not Available

pH : 10.25 - 11

Coefficient Water/Oil Distribution : Completely water soluble

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity Stable when used and stored as directed.

Conditions to Avoid Moisture

Incompatible Materials Do not mix with acids, ammonia compounds, amines, oxidizing and reducing agents. Cyanides, activated carbon, powdered metals. Reducing agents.

Hazardous Decomposition Oxides of carbon and nitrogen.

Products

Hazardous Polymerization No Data Available

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry	:	Eyes, skin, respiratory and digestive system
Skin Contact	:	Prolonged contact may lead to irritation and dermatitis.
Eye Contact	:	May cause irritation, tearing and swelling.
Ingestion	:	Harmful if swallowed.
Inhalation	:	May cause irritation of respiratory tract.
Chronic Exposure Effects	:	Chronic inhalation exposure may lead to respiratory disorders, such as emphysema and chronic bronchitis. Chronic skin contact may cause dermatitis.
Irritancy	:	Moderate irritant
Sensitization	:	Not Available
Carcinogenicity	:	Sodium Nitrite: IARC – Group 2A. Under certain conditions, nitrites may react with secondary amines to form carcinogenic nitrosamines
Teratogenicity	:	There is no clear evidence of sodium nitrite induced mammalian embryotoxicity or teratogenicity. Fetal toxicity due to the formation of methemoglobin. Has been demonstrated in pregnant animals fed toxic doses of sodium nitrite
Mutagenicity	:	Sodium nitrite component has been shown to induce somatic cell mutations in hamsters given 100 mg/kg orally. Sodium nitrite does not product heritable genetic damage. No adverse mutagenic effects anticipated for borate compounds.
Reproductive Effects	:	In rodents, oral administration of sodium nitrite reportedly resulted in adverse reproductive effects such as developmental abnormalities in newborns and fetuses and decreased fertility. Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effects on reproduction.
Other Information	:	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.
Bioaccumulation	Sodium Nitrite: Partition Coefficient -3.7

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.