



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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SAFETY DATA SHEET C-2011

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-2011
Product Use : Water Treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Sodium Nitrite	60-100%	7632-00-0	88 mg/kg (oral - rat)	5.5 mg/L (4h, rat)

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Statement : May intensify fire; oxidiser. Toxic if swallowed. Causes serious eye irritation. Very toxic to aquatic life.
Precautionary Statement : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing, wooden floors and other combustible materials. Take any precaution to avoid mixing with combustibles. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. If swallowed: Immediately call a Poison Center or doctor/physician. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use extinguishing media appropriate for surrounding fire. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

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 : In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and laundry before reuse.
Inhalation : Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
Ingestion : Do NOT induce vomiting. Immediately give large quantities of water. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.
Notes to Physician : Since reversion of methemoglobin to hemoglobin occurs spontaneously after termination of exposure, moderate cyanosis may be treated by supportive measures such as bed rest and oxygen inhalation.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability : Non-flammable
Flash Point : Explodes at 537°C
Autoignition Temperature : Not Applicable
Extinguishing Media : Does not burn. Use extinguishing media appropriate for surround fire

Special Procedures Firefighters should wear full protective clothing including self-contained breathing equipment.

Special Hazards Material does not burn but is an oxidizing agent and will support combustion of other materials. Product decomposes above 320°C, 608°F releasing toxic nitrogen oxides. 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.

Hazardous Combustion Products Oxides of nitrogen.

NFPA Ratings Health 2, Flammability 0, Instability 1 **HMIS Ratings** Health 2, Flammability 0, Reactivity 1

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear appropriate protective equipment.

Environment Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Spill Response/Cleanup Sweep up and place in an appropriate closed container. After removal, flush contaminated area with water and collect for disposal.

SECTION 7 – HANDLING AND STORAGE

Handling Do not ingest. Avoid breathing in dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not mix with amines. A nitrosamine, which may cause cancer, may be formed.

Storage Requirements Keep containers tightly closed. Store in an area that is cool and dry. Place away from incompatible materials. Separate from acids, reactive metals and ammonium salts. Avoid wooden floors. Protect against physical damage. Store in accordance with good industrial practices.

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.

Skin Protection Nitrile, neoprene gloves or PVC gloves. Wear appropriate personal protective clothing to prevent skin contact. If prolonged or repeated contact is anticipated, all clothing should be impervious to liquid.

Eye/Face Protection Safety glasses with side shields or chemical goggles.

Other Comments An eyewash station and safety shower should be available

General Hygiene Avoid breathing vapor or mist. Avoid contact with skin, eyes and clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid

Odour and Appearance : Faint odour; white to yellow

Odour Threshold : No Data Available

Specific Gravity (Water = 1) : 2.17

Vapour Pressure (mmHg) : Not Available

Vapour Density (Air = 1) : Not Available

Evaporation Rate : Not Available

Boiling Point : Decomposition at >320°C / 608°F

Freezing/Melting Point : Melting point 280°C / 536°F

pH : 8-9 (1% solution)

Solubility in Water : Soluble

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity Stable

Incompatible Materials Hazardous reactions can occur with acids, ammonium compounds, reducing agents (particularly cyanides, thiocyanates and thiosulfates). May ignite organic compounds and other combustible materials.

Conditions of Reactivity Prolonged exposure to air will slowly oxidize the nitrite to nitrate. Temperatures above 320°C cause decomposition. Oxidizer: may ignite organic materials and react with other materials.

Hazardous Decomposition Products Oxides of nitrogen.

Hazardous Polymerization Will not occur

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry	:	Inhalation, skin and eye contact, ingestion
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.
Irritancy	:	No Data Available
Carcinogenicity	:	There are no known carcinogenic chemicals in this product.
Teratogenicity	:	Multiple reproductive tests indicate that sodium nitrite is not teratogenic.
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.
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SECTION 14 – TRANSPORT INFORMATION

Shipping Regulations	UN 1500, Sodium Nitrite, Class 5.1 (9.2), PG III
Domestic Substances List	All ingredients are listed on the DSL or are not required to be listed.

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification	Class C: Oxidizing Material Class D1B: Toxic Material 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, ON L4K 1L7
Preparation Date:	October 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.