



PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

TEL 905 669 8262, FAX 905 669 8252, EMAIL pmcwater@aol.com, www.pmcwatersystems.com

MATERIAL 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

Potential Health Effects Signs and Symptoms of Short-Term (Acute) Exposure
Eye Contact Contact with the product may cause eye irritation with discomfort, tearing, or blurring of vision.
Skin Contact Concentrated aqueous solutions or prolonged contact with dust may cause local irritation. Skin contact with product may cause skin irritation with discomfort or rash. May cause sensitization by skin contact.
Inhalation May cause coughing. May cause irritation to the nasal membranes and upper respiratory tract. May reduce the blood's ability to transport oxygen (methemoglobinemia).
Ingestion Harmful if swallowed. May cause irritation to the nasal membranes and upper respiratory tract.

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 launder 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 None
Autoignition Not Applicable
Temperature
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. Oxides of nitrogen.

Hazardous Combustion Products

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:	January 3, 2017

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.