



Material Safety Data Sheet

Revision Date: 11-June-2013
Replaces: N/A

Section 1 - Chemical Product and Company Identification

Emergency Response No. (800) 255-3924 (ChemTel)

Product/Chemical Name: Loop Pro N

Product Description/Use: Corrosion Inhibitor

Company: U.S. Water Services

12270 43rd St. NE
St. Michael, MN 55376

Section 2 - Composition/Information on Ingredients

Ingredient Name	CAS Number	Wt %	NIOSH REL	OSHA PEL
Sodium Nitrite	7632-00-0	60-70	NE	NE

*NE = "Not Established"

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

DANGER: STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE A FIRE. HARMFUL IF SWALLOWED. CAUSES EYE, SKIN, AND RESPIRATORY TRACT IRRITATION. MAY CAUSE METHEMOGLOBINEMIA. MAY CAUSE ADVERSE REPRODUCTIVE AND FETAL EFFECTS IN ANIMALS.

TARGET ORGANS: Blood, cardiovascular system, smooth muscle.

PRECAUTIONARY STATEMENT: Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist. Keep container tightly closed. Wash thoroughly after handling.

Potential Health Effects

EYES: Causes eye irritation. May cause conjunctivitis. May cause permanent corneal opacification.

SKIN: Causes skin irritation.

INGESTION: Harmful if swallowed. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, and death.

(blush discoloration of skin due to deficient oxygenation of the blood), convulsions, and death. Causes digestive tract irritation. Ingestion may cause weakness, muscular incoordination, fine tremors, loss of reflexes, convulsions and possible death from circulatory collapse. Ingestion may cause a decrease in blood pressure, rapid pulse and visual disturbances.

INHALATION: May be fatal if inhaled. May cause methemoglobinemia, cyanosis (bluish discoloration of the blood), convulsions, tachycardia, dyspnea (labored breathing), and death.

CHRONIC: May cause reproductive and fetal effects. Sodium nitrite may react with secondary or tertiary amines to form nitrosamines (certain nitrosamines are cancer suspect agents).

GENERAL INFORMATION: Read the entire SDS for a more thorough evaluation of the hazards.



Section 4 - First Aid Measures

Eye Contact: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After 15 minutes check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.

Skin Contact: Get medical attention immediately. Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Destroy contaminated shoes.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately and keep in position comfortable for breathing. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Ingestion: Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed. Chemical burns must be treated promptly by a physician.

Notes to Physician: Absorption of sodium nitrite into the body leads to the formation of methemoglobin which, in sufficient concentration causes cyanosis.

Section 5 - Fire-Fighting Measures

NOTE: Solid product. Product will melt and combustion may occur when exposed to fire.

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. May react with reducing agents.

Extinguishing Media: Use agents appropriate for surrounding fire such as water spray or foam. Do NOT use straight streams of water.

Section 6 - Accidental Release Measures

Spill/Leak Procedures: Remove sources of ignition. Ventilate area. Use appropriate personal protective equipment as indicated in Section 8 of the SDS when risk assessment indicates this is necessary.

Cleanup: Use non-sparking tools and equipment. Sweep or shovel spilled materials into suitable containers. Do not allow product or residues to enter waterway or any source of drinking water.

Section 7 - Handling and Storage

Handling Precautions: Use appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in the original container. Store and use away from heat, sparks, open flame or any other ignition source. Do not reuse container.

Storage Requirements: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from oxidizing materials and acids. Keep container tightly closed and sealed until ready for use.



Section 8 - Exposure Controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower (ANSI Z358.1). Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

COMPONENT	CAS NUMBER	ACGIH TWA	ACGIH STEL	ACGIH CEILING	OSHA FINAL PEL TWA	IDLH
Sodium Nitrite	7632-00-0	-	-	-	-	-

Administrative Controls: No recommendations.

Respiratory Protection: A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Eye Protection: Wear chemical splash goggles that meet the requirements of 29 CFR 1910.133 or European Standard EN 166.

Skin Protection: Wear appropriate protective gloves to prevent skin exposure (29 CFR 1910.138 or EN 374).

Clothing: Wear appropriate protective clothing to prevent skin exposure.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Appearance: Tan to Brown
Odor: Mild
Boiling Point: Not determined
Freezing/Melting Point: Not determined
Specific Gravity (H₂O=1 at 4°C): Not determined
PH: ~9.5 @ 1%

Water Solubility: Complete over time in water
Vapor Pressure: Not determined
Vapor Density (Air=1): Not determined
% Volatile: Not determined
Volatile Organic Content: Not determined
Evaporation Rate: Not determined

Section 10 - Stability and Reactivity

Stability: Product stable under normal storage and use conditions.
Polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.
Chemical Incompatibilities: Reactive or incompatible with the following materials: reducing materials, acids, ammonium salts, organic matter, amines, cyanides, chlorates.
Hazardous Decomposition Products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sodium oxide, oxides of nitrogen (toxic and irritating).

Section 11 - Toxicological Information

TOXICITY: No Data Available for Product
Carcinogenicity: No component of this product is listed as a known or suspected carcinogen by NTP, IARC, or OSHA

Section 12 - Ecological Information

Environmental Information: No Data Available For Product



Material Safety Data Sheet

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Section 13 - Disposal Considerations

Disposal: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classifications are listed in 40CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14 - Transport Information

U.S. DOT Bill of Lading Description: UN 3087, Oxidizing solid, toxic, n.o.s. (sodium nitrite) 5.1 (6.1), III

Section 15 - Regulatory Information

International Inventories:

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL), U.S. Regulations

California Proposition 65: None of the components of this product are listed.

State Right to Know (RTK)

INGREDIENT(S)	CAS#	MA	NJ	PA	MN
Sodium Nitrite	7632-00-0	X	X	X	-

CERCLA/SARA 302

INGREDIENT(S)	CAS#	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Sodium Nitrite	7632-00-0	60-70	100	-	-

SARA 311/312 Hazard Categories

Immediate: X
Delayed: X
Fire: -
Reactivity: X
Sudden Release of Pressure: -

SARA 313:

This material contains sodium nitrite (CAS 7632-00-0), which is subject to the reporting requirements of SARA 313 title III and 40CFR Part 373.

Clean Air Act: This material does not contain any hazardous air pollutants.

Clean Water Act:

COMPONENT(S)	HAZARDOUS SUBSTANCE	REPORTABLE QUANTITIES	TOXIC POLLUTANTS	PRIORITY POLLUTANTS
Sodium Nitrite	YES	100 lbs.	-	-

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

O T N

Risk Phrases:

R 25 Toxic if swallowed.
R 8 Contact with combustible material may cause fire.
R 50 Very toxic to aquatic organisms.



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Safety Phrases:

5.45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
5.61 Avoid release to the environment. Refer to special instructions/safety data sheets.
WHMIS (Canada)
Class C: Oxidizing material
Class D-1B: Material causing immediate and serious toxic effects (Toxic).
Class D-2B: Material causing other toxic effects.



Section 16 - Other Information

HMIS and NFPA use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of 0 means that the substance possesses essentially no hazard; a rating of 4 indicates high hazard.

Hazardous Material Information System (U.S.A.)	Health: 3	Flammability: 0	Reactivity: 1
	Health: 3	Flammability: 0	Reactivity: 1

Prepared By: U.S. Water Services

Revision Notes: Original

Disclaimer:

USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during storage, handling and use of the product. Each aspect of your operation should be examined to determine if additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.