

1	PRODUCT AND COMPANY IDENTIFICATION
Product Identifier:	447-LM
Common Name:	MIXTURE
SDS Number:	0301
Product Code:	BT0079
Revision Date:	3/25/2015
Version:	3
Internal ID:	300C
Product Use:	Closed Loop Water Treatment Additive, Corrosion and Scale Inhibitor
Supplier Details:	U. S. Water Services 12270 43rd St. NE St. Michael, MN 55376
Contact:	Non-emergency #: 866-663-7632
Email:	SDS@uswaterservices.com
Web:	www.uswaterservices.com

### EMERGENCY RESPONSE: (ChemTel) US & Canada: 800-255-3924 International: +01-813-248-0585

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### HAZARDS IDENTIFICATION

### **Classification of the substance or mixture**

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 5 Dermal Health, Acute toxicity, 3 Oral Health, Serious Eye Damage/Eye Irritation, 2 A Environmental, Hazards to the aquatic environment - Acute, 1

### GHS Label elements, including precautionary statements

#### GHS Signal Word: DANGER

#### **GHS Hazard Pictograms:**



### **GHS Hazard Statements:**

- H313 May be harmful in contact with skin
- H301 Toxic if swallowed
- H319 Causes serious eye irritation
- H400 Very toxic to aquatic life

### **GHS Precautionary Statements:**

P302+352 - IF ON SKIN: Wash with soap and water. P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice.





P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P501 - Dispose of contents/container in accordance with local and federal regulations.

P273 - Avoid release to the environment.

#### Hazards not otherwise classified (HNOC) or not covered by GHS

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

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### COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients:

Cas#	*	Chemical Name
7632-00-0	30-40%	Sodium nitrite
1303-96-4	2-10%	Borates, tetra, sodium salts (decahydrate)
1310-58-3	<2%	Potassium hydroxide

4	FIRST AID MEASURES
Inhalation:	Remove from contamination. If person has stopped breathing administer artificial respiration. Seek medical attention.
Skin Contact:	Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy. Seek medical attention if irritation develops.
Eye Contact:	Flush eyes with plenty of running water for at least 15 minutes. Seek immediate medical attention.
Ingestion:	If conscious, give plenty of water. Seek immediate medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms & effects (acute & delayed): No data available Indication of need for immediate medical attention: No data available Special treatment needs: No data available

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### FIRE FIGHTING MEASURES

Flammability:	Non flammable
Flash Point:	None
Flash Point Method:	Pensky Martens Closed cup
Burning Rate:	Not applicable
Autoignition Temp:	Not applicable
LEL:	Not applicable
UEL:	Not applicable

### **Extinguishing Media:**

Suitable: Use extinguishing media suitable for surrounding fire.



Unsuitable: No information available

**Hazardous combustion products:** Thermal decomposition under fire conditions may produce toxic nitrogen oxide fumes.

Unusual Fire or Explosion Hazards: None known

Special protective equipment/precautions: Wear self-contained breathing apparatus

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## ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective equipment, emergency procedures:** Avoid contact with the material. See section 8 of SDS for PPE recommendations

Environmental Precautions: Keep runoff from entering drains or waterways

**Spill/Leak procedures:** Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. Place into closed container for disposal.

**Regulatory Requirements:** Dispose of recovered material in accordance with all applicable state and federal regulations.

7 HAN	DLING AND STORAGE
Handling Precautions:	Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. Do not mix with acids as toxic fumes may be produced. For industrial use only!
Storage Requirements:	Keep away from children. Store in closed containers away from temperature extremes and incompatible materials. Store in properly labeled containers in accordance with all local, state and federal guidelines.
8 EXP	OSURE CONTROLS/PERSONAL PROTECTION
Engineering Controls: Personal Protective Equipment:	Provide local exhaust ventilation as needed to control misting. HMIS PP, C   Safety Glasses, Gloves, Apron
	Respiratory protection: Not required under normal use conditions. If needed use MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)
	Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
	General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.
	PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)
Exposure Limits:	



Ingredient	CAS#	NIOSH (REL)	OSHA (PEL)
Sodium Nitrite	7632-00-0	NE	NE
Sodium Tetraborate Decahydrate	1303-96-4	5mg/m <sup>3</sup>	15mg/m <sup>3</sup> (total dust) 5mg/m <sup>3</sup> (resp. dust)
Sodium Metaborate Dihydrate	16800-11-6	5mg/m <sup>3</sup>	15mg/m <sup>3</sup> (total dust) 5mg/m <sup>3</sup> (resp. dust)
Potassium Hydroxide	1310-58-3	2mg/m <sup>3</sup> (C)	NE
Sodium Tolytriazole	64665-57-2	NE	NE

\*NE = "Not Established

C = Ceiling

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## PHYSICAL AND CHEMICAL PROPERTIES

Color, Physical State: Clear, colorless to yellow liqu	id Odor: Slightly Pungent
Odor Threshold: No data available	Melting/Freezing point: -3°F
Boiling Point: No data available	Flash Point: Non flammable, Pensky-Martens closed cup
Flammability (gas/solid): No data available	Ignition Temperature: No data available
Upper/Lower Limits of flammability: No data availab	le Decomposition temperature: No data available
Vapor pressure: No data available	Vapor density: Similar to water
Viscosity: No data available	Evaporation rate: No data available
Water Solubility: Complete	Partition coefficient: No data available
Density (lbs/gal): 11.20	pH value: 11-12

10	STABILITY AND REACTIVITY
Stability:	Product is stable under normal storage and use conditions.
Conditions to Avoid	d: Avoid temperature extremes. Protect from freezing
Materials to Avoid:	Acids, ammonium compounds, cyanides, thiocyanates, thiosulfates. Contact with acids causes release of toxic oxides of nitrogen.
Hazardous	None under normal storage and use conditions. See chemical incompatibilites above.
Decomposition:	May relase toxic products under fire conditions. See section 5.
Hazardous Polymerization:	Will not occur.

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## TOXICOLOGICAL INFORMATION

## **Exposure Routes & Acute Toxicity:**





Oral (LD 50): No testing has been contucted on this product. However, the following data is available for sodium nitrite, whice compromises 38-39% of this product: Oral LD50 (Rat) 88mg/kg (moderately toxic).

Inhalation (LC 50): No data available

Skin irritation: No data available

Eye irritation: No data available

#### DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

Embryotoxicity: No data available

NOEL : No data available

NOEL : No data available

28-day Inhalation Study: No data available

90-day Inhalation Study : No data available

Dose levels: No data available

#### **Toxicity Data:**

Eye Effects:	No data available
Skin Effects:	No data available
Accute Inhalation Effects:	No data available
Ingestion:	No data available
Carcinogenicity:	No carcinogenic effects are known for the components of this product
Mutagenicity:	No mutagenic effects are known for the components of this product
Teratogenicity:	No teratogenic effects are known for the components of this product

### 12 ECOLOGICAL INFORMATION

**Ecotoxicity** (aquatic & terrestrial):

SPECIES	ACUTE LC50 48hr	ACUTE LC50 96hr	ACUTE Survival NOEC	ACUTE Survival LOEC
Fathead minnow (Pimephales promelas)	-	58.0 mg/L	60 mg/L	120 mg/L
Water Flea (Daphnia magna)	14.0 mg/L	-	7.5 mg/L	15mg/L

Elimination (persistency and degradability): No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available



SARA TITLE III -CERCLA LIST: This product contains the following CERCLA Listed hazardous substances.

	CAS #	Percent	<u>RQ</u>
Sodium Nitrite	7632-00-0	<b>38 – 39</b>	100 lbs
Potassium Hydroxide	1310-58-3	< 2	1,000 lbs

SARA TITLE III-TOXIC CHEMICAL LIST (Sec. 313): This product contains the following chemicals subject to routine annual chemical release reporting.

	<u>CAS #</u>	Percent	RQ
Sodium Nitrite	7632-00-0	38-39	100 lbs

## 16 OTHER INFORMATION

HMIS III:Health = 3, Fire = 0, Physical Hazard = 0HMIS PPE:C - Safety Glasses, Gloves, Apron



Author: U.S. Water Services

Revision Notes: Updated to GHS format

#### Disclaimer:

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