

447-LM

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

2 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.



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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)

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

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

FIRST AID MEASURES 4

Inhalation: Remove from contamination. If person has stopped breathing administer artificial respiration.

Seek medical attention.

Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy. Skin Contact:

Seek medical attention if irritation develops.

Flush eyes with plenty of running water for at least 15 minutes. Seek immediate medical Eye Contact:

attention.

If conscious, give plenty of water. Seek immediate medical attention. Do not induce vomiting Ingestion:

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

5 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.

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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

6 **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.

HANDLING 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!

Keep away from children. Store in closed containers away from temperature **Storage Requirements:**

extremes and incompatible materials. Store in properly labeled containers in

accordance with all local, state and federal guidelines.

8 **EXPOSURE 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:



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Ingredient	CAS#	NIOSH (REL)	OSHA (PEL)
Sodium Nitrite	7632-00-0	NE	NE
Sodium Tetraborate Decahydrate	1303-96-4	5mg/m ³	15mg/m³ (total dust) 5mg/m³ (resp. dust)
Sodium Metaborate Dihydrate	16800-11-6	5mg/m ³	15mg/m³ (total dust) 5mg/m³ (resp. dust)
Potassium Hydroxide	1310-58-3	2mg/m³ (C)	NE
Sodium Tolytriazole	64665-57-2	NE	NE

^{*}NE = "Not Established

9 PHYSICAL AND CHEMICAL PROPERTIES

Color, Physical State: Clear, colorless to yellow liquid
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 available 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: 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 incompatibilities above.

Decomposition: May relase toxic products under fire conditions. See section 5.

Hazardous Will not occur.

Polymerization:

11 TOXICOLOGICAL INFORMATION

Exposure Routes & Acute Toxicity:

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C = Ceiling



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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 Eve 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
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):

	ACUTE	ACUTE	ACUTE	ACUTE
SPECIES	LC ₅₀	LC ₅₀	Survival	Survival
	48hr	96hr	NOEC	LOEC
Fathead minnow	-	58.0 mg/L	60 mg/L	120 mg/L
(Pimephales promelas)				AT.
Water Flea	14.0 mg/L	-	7.5 mg/L	15mg/L
(Daphnia magna)				

Elimination (persistency and degradability): No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

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DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

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TRANSPORT INFORMATION

UN3287, Toxic liquid, inorganic, n.o.s., 6.1, PGIII

Contains: Sodium Nitrite Packaging Group: PG III

DOT Transportation data (49 CFR 172.101)

See section 15 of SDS for information on Reportable Quantity chemicals (RQ)

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REGULATORY INFORMATION

Component (CAS#) [%] - CODES

RQ(100LBS), Sodium nitrite (7632-00-0) [30-40%] CERCLA, CSWHS, MASS, PA, SARA313, TSCA Borates, tetra, sodium salts (decahydrate) (1303-96-4) [2-10%] MASS, OSHAWAC, PA, TSCA, TXAIR RQ(1000LBS), Potassium hydroxide (1310-58-3) [<2%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions

RQ = Reportable Quantity

CERCLA = Superfund clean up substance

CSWHS = Clean Water Act Hazardous substances

MASS = MA Massachusetts Hazardous Substances List

PA = PA Right-To-Know List of Hazardous Substances

SARA313 = SARA 313 Title III Toxic Chemicals

TSCA = Toxic Substances Control Act

OSHAWAC = OSHA Workplace Air Contaminants

TXAIR = TX Air Contaminants with Health Effects Screening Level

Extremely Hazardous Substance: This product does not contain any extremely hazardous substances subject to emergency planning requirements.

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

	CAS#	Percent	RQ
Sodium Nitrite	7632-00-0	38 - 39	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.

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

16 OTHER INFORMATION

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



Author: U.S. Water Services

Revision Notes: Updated to GHS format

Disclaimer:

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