

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

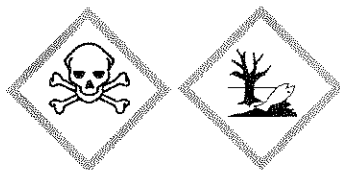
EMERGENCY RESPONSE: (ChemTel)
US & Canada: 800-255-3924
International: +01-813-248-0585

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)

3 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

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

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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.

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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!

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.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide local exhaust ventilation as needed to control misting.

Personal Protective Equipment: 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/m ³ (total dust) 5mg/m ³ (resp. dust)
Sodium Metaborate Dihydrate	16800-11-6	5mg/m ³	15mg/m ³ (total dust) 5mg/m ³ (resp. dust)
Potassium Hydroxide	1310-58-3	2mg/m ³ (C)	NE
Sodium Tolytriazole	64665-57-2	NE	NE

*NE = "Not Established"

C = Ceiling

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 Decomposition: None under normal storage and use conditions. See chemical incompatibilities above. May release toxic products under fire conditions. See section 5.

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Exposure Routes & Acute Toxicity:

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Oral (LD 50): No testing has been conducted on this product. However, the following data is available for sodium nitrite, which comprises 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

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

Elimination (persistence 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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13 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.

14 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)

15 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

OSHA WAC = 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.

	<u>CAS #</u>	<u>Percent</u>	<u>RQ</u>
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.

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

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

HMIS	
HEALTH	■ 3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

Author: U.S. Water Services

Revision Notes: Updated to GHS format

Disclaimer:

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