

RO 510 N**1 PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: RO 510 N
Common Name: MIXTURE
SDS Number: 0550
Revision Date: 5/7/2015
Version: 1
Internal ID: 200C
Product Use: Reverse Osmosis Scale Inhibitor
Supplier Details: U. S. Water Services
12270 43rd St. NE
St. Michael, MN 55376

Contact: Non-emergency #: 866-663-7632
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2 HAZARDS IDENTIFICATION**Classification of the Substance or Mixture****GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Health, Acute toxicity, 5 Oral
Health, Acute toxicity, 5 Dermal
Health, Specific target organ toxicity - Single exposure, 3
Health, Skin corrosion/irritation, 1 B

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:**GHS Hazard Statements:**

H303 - May be harmful if swallowed
H313 - May be harmful in contact with skin
H335 - May cause respiratory irritation
H314 - Causes severe skin burns and eye damage

GHS Precautionary Statements:

P281 - Use personal protective equipment as required.

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P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P313 - Get medical advice/attention.

P351 - Rinse continuously with water for several minutes.

P302+352 - IF ON SKIN: Wash with soap and water.

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 OF INGREDIENTS**Ingredients:**

Cas#	%	Chemical Name
2809-21-4	15-20%	Phosphonic acid, (1-Hydroxyethylidene) Bis-(HEDP)
97953-25-8	<5%	Acrylic Acid/2-Acrylamido-2-methylpropane Sulfonic Acid Copolymer
26099-09-2	1-2%	2-Butenedioic acid (2Z)-, homopolymer

4 FIRST AID MEASURES

- Inhalation:** Remove from contamination. If person has stopped breathing administer artificial respiration. Seek medical attention.
- Skin Contact:** Rinse affected area with 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 medical attention.
- Ingestion:** If conscious, give plenty of water. Do not induce vomiting. Seek medical attention.

Most important symptoms & effects (acute & delayed): No data available

Indication of need for immediate medical attention: No data available

Special treatment needs: No specific data has been determined but based on similar materials: the materials may cause tissue destruction leading to stricture. If lavage is performed, suggest entotracheal and/or esophagoscopy control. If burn is present, treat as any thermal burn, after decontamination. No special antidote.

5 FIRE FIGHTING MEASURES

- Flash Point:** None
- Burning Rate:** Not applicable
- Autoignition Temp:** Does not burn
- LEL:** Not applicable
- UEL:** Not applicable

Extinguishing Media:

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Suitable: Use extinguishing media suitable for surrounding fire.

Unsuitable: No information available

Hazardous combustion products: Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, oxides of nitrogen, oxides of sulfur and other potentially hazardous substances.

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. Spill may be slippery. Barricade and control area. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. After spill is collected dilute with inorganic acid. Place into closed container for disposal. Flush away remaining traces with large quantity of water.

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

7 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. For industrial use only!

Storage Requirements: Store in tightly closed container away from incompatible materials and protect from freezing. Keep away from children. Store in accordance with all local, state and federal guidelines

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: No recommendations.

Personal Protective Equipment: HMIS PPE, C | Safety Glasses, Gloves, Apron

Respiratory protection: 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:

OSHA (TWA)/PEL): Not Established

ACGIH (TWA/TLV): Not Established

RO 510 N**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear, colorless to pale yellow	Odor:	Acridic
Physical State:	Liquid	Solubility:	Complete in water
Odor Threshold:	No data available	Freezing/Melting Pt.:	28°F
Spec Grav./Density:	9.51 lb/gal	Flash Point:	None
Viscosity:	Not determined	Vapor Density:	Similar to water (Air = 1)
Boiling Point:	Similar to water	Auto-Ignition Temp:	No data available
Partition Coefficient:	Not determined	UFL/LFL:	Not determined
Vapor Pressure:	Similar to water		
pH:	1-2		
Evap. Rate:	Not determined		
Decomp Temp:	Not determined		

10 STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal storage and use conditions and temperatures.
Conditions to Avoid:	Excessive temperatures. Protect from freezing. Keep container closed when not in use.
Materials to Avoid:	Strong oxidizing agents, strong alkalis
Hazardous Decomposition:	None under normal storage and use conditions. See section 5 of SDS
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin Corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Specific target organ toxicity (single exposure):	No data available
Specific target organ toxicity (repeated exposure):	No data available
Aspiration hazard:	No data available
Carcinogenicity:	No carcinogenic effects are known for the components of this product
Germ Cell 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

Aquatic Toxicity	No data available
Elimination (persistence & degradability):	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

RO 510 N**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

UN1760, Corrosive liquids, n.o.s., 8, PGIII, (Phosphonic acid, (1-Hydroxyethylidene) Bis-(HEDP))

DOT Transportation data (49 CFR 172.101)

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Phosphonic acid, (1-Hydroxyethylidene) Bis-(HEDP) (2809-21-4) [15-20%] TSCA

Acrylic Acid/2-Acrylamido-2-methylpropane Sulfonic Acid Copolymer (97953-25-8) [<5%] TSCA

2-Butenedioic acid (2Z)-, homopolymer (26099-09-2) [1-2%] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

EPA / CERCLA / SARA TITLE III:

CERCLA List: This product does not contain any CERCLA listed hazardous substances.

Toxic Chemical List (SARA 313): This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

Extremely Hazardous Substance (SARA 302/304): This product does not contain any extremely hazardous substances subject to emergency planning requirements.

SARA 312: Acute

RCRA: Corrosive, D002

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory

RO 510 N**16****OTHER INFORMATION**

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0

HMIS PPE: C - Safety Glasses, Gloves, Apron

HMIS		
HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	0
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	C

Author: U.S. Water Services**Revision Notes:** Updated to GHS format**Disclaimer:**

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