
TOWERASSURE A510

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: TOWERASSURE A510
Common Name: MIXTURE
SDS Number: 0561
Revision Date: 5/4/2017
Version: 1
Internal ID: 200C
Product Use: Cooling Water Treatment
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

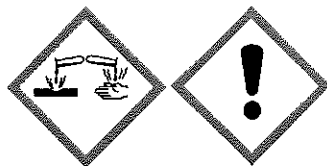
EMERGENCY RESPONSE: (ChemTel)
US & Canada: 800-255-3924
International: +01-813-248-0585

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, 5 Inhalation
Health, Acute toxicity, 4 Oral
Health, Serious Eye Damage/Eye Irritation, 1
Health, Skin corrosion/irritation, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

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

H313 - May be harmful in contact with skin
H333 - May be harmful if inhaled
H302 - Harmful if swallowed
H318 - Causes serious eye damage
H315 - Causes skin irritation

GHS Precautionary Statements:

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P281 - Use personal protective equipment as required.
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.
P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P313 - Get medical advice/attention.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS**3 COMPOSITION/INFORMATION OF INGREDIENTS****Ingredients:**

Cas#	%	Chemical Name
97953-25-8	5-10%	2-Propenoic acid, telomer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and sodium hydrogen sulfite, sodium salt
26099-09-2	1-5%	2-Butenedioic acid (2Z)-, homopolymer
64665-57-2	1-5%	1H-Benzotriazole, 4(or 5)-methyl-, sodium salt
2809-21-4	1-5%	Phosphonic acid, (1-Hydroxyethylidene) Bis-(HEDP)
1310-73-2	1-5%	Sodium hydroxide

4 FIRST AID MEASURES

Inhalation: Remove from contamination. Seek medical attention if symptoms persist.
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 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 data available

5 FIRE FIGHTING MEASURES

Flash Point: None
Burning Rate: Not applicable
Autoignition Temp: Not applicable
LEL: Not applicable
UEL: Not applicable

Extinguishing Media:

Suitable: Material will not burn. Use extinguishing media suitable for surrounding fire.

Unsuitable: No information available

Hazardous combustion products: Hazardous decomposition products formed under fire conditions- Carbon

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oxides, oxides of nitrogen, oxides of sulfur, and other hazardous compounds

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.

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 closed containers away from temperature extremes and incompatible materials. Protect from freezing. Store in properly labeled containers in accordance with all local, state and federal guidelines.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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:	Sodium Hydroxide
NIOSH (REL):	2 mg/m ³
OSHA (PEL):	2 mg/m ³

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow-amber

Physical State: Liquid

Odor: Acridic

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Odor Threshold:	Not determined	Solubility:	Complete in water
Spec Grav./Density:	9.34 lb/gal	Freezing/Melting Pt.:	28°F
Viscosity:	Not determined	Flash Point:	None
Boiling Point:	Not determined	Vapor Density:	Not determined
Partition Coefficient:	Not determined	Auto-Ignition Temp:	Not determined
Vapor Pressure:	Not determined	UFL/LFL:	Not determined
pH:	12.3		
Evap. Rate:	Not determined		
Decomp Temp:	Not determined		

10 STABILITY AND REACTIVITY

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

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Based on the available data for individual components, the acute oral toxicity is estimated to be >2500mg/kg
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	
<i>Daphnia magna</i> : 48h LC ₅₀ : 3186 mg/L; NOEC: 2500 mg/L	
Fathead Minnow: 96h LC ₅₀ : 2639 mg/L; NOEC: 2000 mg/L	
Rainbow Trout: 96h LC ₅₀ : 238 mg/L; NOEC 111 mg/L	
Elimination (persistence & degradability):	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

TOWERASSURE A510**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

UN1824, Sodium hydroxide solution, 8, PGIII, (Sodium Hydroxide)

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

2-Propenoic acid, telomer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and sodium hydrogen sulfite, sodium salt (97953-25-8) [5-10%] TSCA

2-Butenedioic acid (2Z)-, homopolymer (26099-09-2) [1-5%] TSCA

1H-Benzotriazole, 4(or 5)-methyl-, sodium salt (64665-57-2) [1-5%] TSCA

Phosphonic acid, (1-Hydroxyethylidene) Bis-(HEDP) (2809-21-4) [1-5%] TSCA

RQ(1000LBS), Sodium hydroxide (1310-73-2) [1-5%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions

RQ = Reportable Quantity

TSCA = Toxic Substances Control Act

CERCLA = Superfund clean up substance

CSWHS = Clean Water Act Hazardous substances

MASS = MA Massachusetts Hazardous Substances List

OSHAWAC = OSHA Workplace Air Contaminants

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

TXAIR = TX Air Contaminants with Health Effects Screening Level

EPA / CERCLA / SARA TITLE III:

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.

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SARA 312: Acute**California Proposition 65:** This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or any other reproductive harm.**RCRA:** Corrosive, D002**TSCA:** All components of this product are listed (or are not required to be listed) in the TSCA inventory**16****OTHER INFORMATION**

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

HMIS PPE: C - Safety Glasses, Gloves, Apron

HMIS	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

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

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