
TOWER MP 560

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: TOWER MP 560
Common Name: MIXTURE
SDS Number: 0421
Revision Date: 1/12/2015
Version: 1
Internal ID: 200C
Product Use: Cooling Tower 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, 4 Oral
Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 B
Health, Specific target organ toxicity - Single exposure, 3

GHS Label elements, including precautionary statements

GHS Signal Word: WARNING

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

H302 - Harmful if swallowed
H315 - Causes skin irritation
H320 - Causes eye irritation
H335 - May cause respiratory irritation

GHS Precautionary Statements:

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.

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

P315 - Get immediate medical advice/attention.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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
1310-73-2	5-10	Sodium hydroxide
2809-21-4	5-10	Phosphonic acid, (1-hydroxyethylidene)bis-
37971-36-1	5-10	1,2,4-Butanetricarboxylic acid, 2-phosphono-

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FIRST AID MEASURES

Inhalation: Remove from contamination. If symptoms persist, seek medical attention.

Skin Contact: Wash off with soap and plenty of water. Consult a physician if irritation develops.

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

Ingestion: Drink several glasses of water. Seek 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: Nonflammable

Flash Point: None

Burning Rate: No data available

Autoignition Temp: No data available

LEL: Not applicable

UEL: Not applicable

Extinguishing Media:

Suitable: Use extinguishing media suitable for surrounding fire.

Unsuitable: No information available

Hazardous combustion products: Hazardous decomposition products formed under fire conditions- CO_x, SO_x, and other potentially hazardous compounds

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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. For industrial use only!

Storage Requirements: 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: 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
OSHA (TWA)/PEL): 2 mg/m³
NIOSH (REL): No data available

TOWER MP 560**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear to amber liquid	Odor:	Acrid odor
Physical State:	Liquid	Solubility:	Soluble
Odor Threshold:	No data available	Freezing/Melting Pt.:	14°F
Spec Grav./Density:	9.67 lb/gal	Flash Point:	None
Viscosity:	No data available	Vapor Density:	Same as water
Boiling Point:	Not determined	Auto-Ignition Temp:	No data available
Partition Coefficient:	No data available	UFL/LFL:	No data available
Vapor Pressure:	Same as water		
pH:	5.5		
Evap. Rate:	Not Determined		
Decomp Temp:	No data available		

10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal storage and use conditions.
Conditions to Avoid:	Avoid temperature extremes. Protect from freezing. Keep container closed when not in use.
Materials to Avoid:	Strong oxidizing agents, strong acids
Hazardous Decomposition:	Thermal decomposition, as under fire conditions, may produce oxides of phosphorous, acrylic monomers, and other potentially hazardous compounds.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	
For NaOH (5%-10% of product)	
Oral: Rabbit, lowest published lethal dose:	500 mg/kg
Skin Corrosion/Irritation:	Severe irritant (rabbit) for NaOH
Serious eye damage/irritation:	Severe irritant (rabbit) for NaOH
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No components listed as a carcinogen
Reproductive Toxicity:	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

TOWER MP 560**12 ECOLOGICAL INFORMATION****Aquatic Toxicity**

Daphnia magna 48h LC₅₀ 4950 mg/L Survival NOEC 3500 mg/L Survival LOEC 7000 mg/L
Rainbow Trout 96h LC₅₀ 12.4 g/L Survival NOEC 8.8 g/L Survival LOEC 17.5 g/L

Chronic Toxicity:

Daphnia magna 21 days IC₅ 180mg/L IC₁₀ 195mg/L IC₂₅ 241 mg/L IC₅₀ 318mg/L
Reproduction NOEC 179 mg/L Reproduction LOEC 448 mg/L Survival NOEC 448 mg/L Survival LOEC 1120 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

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

Proper Shipping Name: Non-regulated

DOT Transportation data (49 CFR 172.101)

15 REGULATORY INFORMATION**Component (CAS#) [%] - CODES**

RQ(1000LBS), Sodium hydroxide (1310-73-2) [5-10] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4) [5-10] TSCA

1,2,4-Butanetricarboxylic acid, 2-phosphono- (37971-36-1) [5-10] TSCA