SAFETY DATA SHEET

TOWER MP 1000

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: TOWER MP 1000
Common Name: MIXTURE
SDS Number: 0435
Product Code: CT0074
Revision Date: 10/29/2019
Version: 1
Product Use: Cooling Water Treatment

Supplier Details: U. S. Water, a Kurita company
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, Acute toxicity, 4 Inhalation
Health, Skin corrosion/irritation, 1 A
Physical, Corrosive to Metals, 1
Physical, Oxidizing Liquids, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:

GHS Hazard Statements:

H302 - Harmful if swallowed
H332 - Harmful if inhaled
H314 - Causes severe skin burns and eye damage
H290 - May be corrosive to metals
H272 - May intensify fire; oxidizer

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.

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)

3 COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Ingredients:

CAS#	%	Chemical Name:
37971-36-1	2-10	1,2,4-Butanetricarboxylic acid, 2-phosphono-
7664-93-9	40%	Sulfuric acid
7664-38-2	2-5	Phosphoric acid
95-14-7	3-6	1H-Benzotriazole

4 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: Do not attempt to neutralize. Get 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

Extinguishing Media:

Suitable: Use extinguishing media suitable for surrounding fire.

Unsuitable: No information available

Hazardous combustion products: Hazardous decomposition products formed under fire conditions- Carbon oxides, and other hazardous compounds

Unusual Fire or Explosion Hazards: Nonflammable but a powerful oxidizer

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: Spill may be slippery. 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. 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:

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:	Sulfuric Acid	Phosphoric Acid
NIOSH (REL):	1 mg/m^3	3 mg/m^3

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Golden liquid		
Physical State:	Liquid	**Odor:**	Acridic odor
Odor Threshold:	No data available	**Solubility:**	Complete in water
Particle Size:	No data available	**Freezing/Melting Pt.:**	Did Not Freeze
Spec Grav./Density:	10.87 lb/gal	**Flash Point:**	None
Viscosity:	No data available	**Vapor Density:**	Same as water
Boiling Point:	No data available	**Auto-Ignition Temp:**	No data available
Partition Coefficient:	No data available	**UFL/LFL:**	No data available
Vapor Pressure:	Same as water		
pH:	<0.5		
Evap. Rate:	Not Determined		
Decomp Temp:	No data available		

10 STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal storage and use conditions.

Conditions to Avoid: Avoid temperature extremes. Protect from freezing. Keep container clsoed when not in use.

Materials to Avoid: Strong oxidizing agents, strong alkalis, strong acids. Sulfuric acid is a powerful

	oxidizer, can react explosively with water, steam and organic matter.
Hazardous Decomposition:	Reaction with metals produces hydrogen, which can form explosive mixtures in tanks, vessels, confined spaces. Reaction with sulfides will release hydrogen sulfide.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available
Skin Corrosion/Irritation: No data availble
Serious eye damage/irritation: No data available
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

12 ECOLOGICAL INFORMATION

Aquatic Toxicity: No data available
Elimination (persistency & 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

UN1760, Corrosive liquids, n.o.s., (Sulfuric acid, Phosphoric acid), 8, PG II

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

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

RQ(1000LBS), Sulfuric acid (7664-93-9) [30-50] CERCLA, CSWHS, EHS302, EPCRAWPC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

RQ(5000LBS), Phosphoric acid (7664-38-2) [2-5] CERCLA, CSWHS, EPCRAWPC, MASS, NJHS, OSHAWAC, TSCA, TXAIR

1H-Benzotriazole (95-14-7) [3-6] TSCA

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory CODE Descriptions

RQ = Reportable Quantity
TSCA = Toxic Substances Control Act
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
EHS302 = Extremely Hazardous Substance
EPCRAWPC = EPCRA Water Priority Chemicals
MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TXAIR = TX Air Contaminants with Health Effects Screening Level

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory
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.
SARA 312: Acute, Reactive
RCRA: Corrosive, D002

16 OTHER INFORMATION

PPE

Author: U.S. Water, a Kurita company

Revision Notes: Updated to GHS format

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or application of the product described herein. This information is given in good faith and based on our current knowledge of the product.

Revision Date: 10/29/2019