

**TOWER MP 1000****1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** TOWER MP 1000  
**Common Name:** MIXTURE  
**SDS Number:** 0435  
**Revision Date:** 1/12/2015  
**Version:** 1  
**Internal ID:** 312D  
**Product Use:** 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, 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.

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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.  
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 ON INGREDIENTS****Ingredients:**

Cas#	%	Chemical Name
37971-36-1	2-10	1,2,4-Butanetricarboxylic acid, 2-phosphono-
7664-93-9	30-50	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**

**Flammability:** Nonflammable  
**Flash Point:** None  
**Flash Point Method:** Pensky Martens Closed cup  
**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

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**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:** HMIS PP, D | Face Shield and Eye Protection, 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)

<b>Exposure Limits:</b>	Sulfuric Acid	Phosphoric Acid
<b>NIOSH (REL):</b>	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>

**TOWER MP 1000****9****PHYSICAL AND CHEMICAL PROPERTIES**

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

**10****STABILITY AND REACTIVITY**

<b>Stability:</b>	Product is stable under normal storage and use conditions.
<b>Conditions to Avoid:</b>	Avoid temperature extremes. Protect from freezing. Keep container closed when not in use.
<b>Materials to Avoid:</b>	Strong oxidizing agents, strong alkalis, strong acids. Sulfuric acid is a powerful oxidizer, can react explosively with water, steam and organic matter.
<b>Hazardous Decomposition:</b>	Reaction with metals produces hydrogen, which can form explosive mixtures in tanks, vessels, confined spaces. Reaction with sulfides will release hydrogen sulfide.
<b>Hazardous Polymerization:</b>	Will not occur.

**11****TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity:</b>	No data available
<b>Skin Corrosion/Irritation:</b>	No data available
<b>Serious eye damage/irritation:</b>	No data available
<b>Respiratory or skin sensitization:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	No components listed as a carcinogen
<b>Reproductive Toxicity:</b>	No data available
<b>Specific target organ toxicity (single exposure):</b>	No data available
<b>Specific target organ toxicity (repeated exposure):</b>	No data available
<b>Aspiration hazard:</b>	No data available

**12****ECOLOGICAL INFORMATION**

<b>Aquatic Toxicity</b>	No data available
<b>Elimination (persistence &amp; degradability):</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Mobility in soil:</b>	No data available
<b>Other adverse effects:</b>	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**

UN1760, Corrosive liquids, n.o.s., 8, PGII, (Contains: Sulfuric acid, Phosphoric acid)

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**

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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

**Regulatory CODE Descriptions**

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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

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**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**

HMIS III: Health = 3, Fire = 1, Physical Hazard = 1

HMIS PPE: D - Face Shield and Eye Protection, Gloves, Apron

HMIS		
HEALTH	■	3
FLAMMABILITY		1
PHYSICAL HAZARD		1
PERSONAL PROTECTION		D

**Author:** U.S. Water Services

**Revision Notes:** Updated to GHS format

**Disclaimer:**

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