
TOWERASSURE A5000

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: TOWERASSURE A5000
Common Name: Mixture
SDS Number: 0212
Product Code: CT0154
Revision Date: 3/19/2015
Version: 2
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 Oral
Health, Specific target organ toxicity - Single exposure, 3
Health, Skin corrosion/irritation, 1 A

GHS Label elements, including precautionary statements

GHS Signal Word: DANGER

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

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

GHS Precautionary Statements:

P102 - Keep out of reach of children.
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.

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
7778-53-2	15-40%	Phosphoric acid, tripotassium salt
1310-58-3	3-7%	Potassium hydroxide
29385-43-1	1-5%	1H-Benzotriazole, 4(or 5)-methyl-
2809-21-4	1-5%	Phosphonic acid, (1-hydroxyethylidene)bis-

4 FIRST AID MEASURES

- Inhalation:** Remove from contamination. If person has stopped breathing administer artificial respiration. If symptoms persist, seek medical attention.
- Skin Contact:** Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy. Consult a physician if irritation develops.
- Eye Contact:** Flush eyes with plenty of running water for 15 minutes. Seek medical attention if irritation persists.
- Ingestion:** If conscious, give plenty of water. If discomfort or other symptoms develop, 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

5 FIRE FIGHTING MEASURES

- Flash Point:** Not applicable
- 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: Unknown but oxides of carbon and nitrogen may be released on burning.

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: Keep away from children. 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, C | Safety Glasses, Gloves, Apron

Respiratory protection: If needed use MSHA/NIOSH approved respirator for dusts and mists. 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: Potassium Hydroxide
NIOSH (REL): 2mg/m³

TOWERASSURE A5000**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear, yellow	Odor:	Slight
Physical State:	Liquid	Solubility:	Compelte in water
Odor Threshold:	Not detemined	Freezing/Melting Pt.:	20°F
Spec Grav./Density:	11.43 lb/gal	Flash Point:	None
Viscosity:	Not detemined	Vapor Density:	Not detemined
Boiling Point:	Similar to water	Auto-Ignition Temp:	Not detemined
Partition Coefficient:	Not detemined	UFL/LFL:	Not detemined
Vapor Pressure:	Similar to water		
pH:	>13		
Evap. Rate:	Not detemined		
Decomp Temp:	Not detemined		

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 may produce carbon oxides and other toxic compounds.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	
Oral LD ₅₀ (rat)	> 5000 mg/kg (est.)
Dermal LD ₅₀ (rabbit)	> 5000 mg/kg (est.)
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

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12 ECOLOGICAL INFORMATION**Aquatic Toxicity**

Daphnia magna (48 Hr Static Acute Bioassay (pH adjusted)) LC₅₀ 2290 mg/L; NOEC 2048 mg/L
Fathead Minnow (96 Hr Static Acute Bioassay (pH adjusted)) LC₅₀ 1075 mg/L; NOEC 845 mg/L
Rainbow Trout (96 Hr Static Acute Bioassay (pH adjusted)) LC₅₀ 825 mg/L; NOEC 156 mg/L

Elimination (persistence & degradability):

BOD ₅	BOD ₂₈	COD	TOC
3 mg/g	12 mg/g	187 mg/g	68 mg/g

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

UN3266, Corrosive liquid, basic, inorganic, n.o.s., 8, PGIII, (Potassium Hydroxide)

DOT Transportation data (49 CFR 172.101)

See section 15 for information on Reportable Quantity chemicals (RQ)

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

Phosphoric acid, tripotassium salt (7778-53-2) [15-40%] TSCA

RQ(1000LBS), Potassium hydroxide (1310-58-3) [3-7%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

1H-Benzotriazole, 4(or 5)-methyl- (29385-43-1) [1-5%] TSCA

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

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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

OSHA WAC = OSHA Workplace Air Contaminants

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

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.

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

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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: New

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