

TOWERASSURE A560**1 PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: TOWERASSURE A560
Common Name: Mixture
SDS Number: 0214
Product Code: CT0180
Revision Date: 3/19/2015
Version: 4
Internal ID: 200C
Product Use: Water Treatment
Supplier Details: U.S. Water Services
12270 43rd St. NE
St. Michael, MN 55376

Contact: Non-emergency #: 866-663-7632
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2 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
Health, Acute toxicity, 4 Oral

GHS Label elements, including precautionary statements

GHS Signal Word: WARNING

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

H302 - Harmful if swallowed

GHS Precautionary Statements:

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. Seek medical Attention.
P311 - Call a POISON CENTER or doctor/physician.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+341 - IF INHALED: If breathing is difficult, 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

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

4 FIRST AID MEASURES

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

- Flammability:** Not flammable
- Flash Point:** Not applicable
- Flash Point Method:** Not applicable
- 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: Thermal decomposition under fire conditions may produce carbon dioxide, carbon monoxide, oxides of nitrogen, phosphorus and sulfur, hydrogen chloride, and other potentially hazardous compounds

Unusual Fire or Explosion Hazards: None known

Special protective equipment/precautions: Wear self-contained breathing apparatus

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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 UV light. Use within one year of receipt. 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. 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

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to amber

Physical State: Liquid

Odor Threshold: Not determined

Spec Grav./Density: 9.76 lb/gal

Viscosity: Not determined

Boiling Point: Not determined

Partition Coefficient: Not determined

Vapor Pressure: Not determined

Odor: Acridic odor

Solubility: Soluble in water

Freezing/Melting Pt.: Not determined

Flash Point: None

Vapor Density: Not determined

Auto-Ignition Temp: Not determined

UFL/LFL: Not determined

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pH: 5.25
Evap. Rate: Not determined
Decomp Temp: Not determined

10 STABILITY AND REACTIVITY

Stability: Product is stable under normal storage and use conditions.
Conditions to Avoid: Avoid temperature extremes. Protect from freezing. Exposure to UV light may cause product degradation.
Materials to Avoid: Strong Acids
Hazardous Decomposition: None under normal storage conditions.
Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: No testing has been conducted with this product blend; however for the components which make up this product the following data is available.

Listed in 21 CFR 184, "Direct Food Substances Affirmed as Generally Recognized as Safe (GRAS)"

Oral: (Rabbit) Lowest published lethal dose: 500 mg/kg

Skin Corrosion/Irritation: Severe (rabbit)

Serious eye damage/irritation: Severe (rabbit)

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

Ecotoxicity (aquatic & terrestrial):

Species	Test Duration	LC ₅₀	Survival NOEC	Survival LOEC
Daphnia Magna	48 Hr	4950mg/L	3500 mg/L	7000mg/L
Rainbow Trout	96 Hr	12.4 g/L	8.8g/L	17.5g/L

Species	Test Duration	IC ₅	IC ₁₀	IC ₂₅	IC ₅₀	Reproduction NOEC	Reproduction LOEC	Survival NOEC	Survival LOEC
Daphnia Magna	21 days	180 mg/L	195 mg/L	241 mg/L	318 mg/L	179mg/L	448mg/L	448mg/L	1120mg/L

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Elimination (persistence and 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

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

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

RQ(1000LBS), Sodium hydroxide (1310-73-2) [2-10%] 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

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory

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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: No data available

RCRA: No data available

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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

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Revision Notes: Updated to GHS format

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