Material Safety Data Sheet

TowerPro 400

Date of Preparation: 21-February-2012
Replaces: N/A

Section 1 - Chemical Product and Company Identification

Emergency Response No. (800) 255-3924 (Chemtel)

Product/Chemical Name: **TowerPro 400**
Cooling Tower Treatment

Manufacturer: **U.S. Water Services**
330 South Cleveland St
Cambridge, MN 55008

Section 2 - Composition/Information on Ingredients

Ingredient Name	CAS Number	% wt	Hazardous*
Tolytriazole, Sodium Salt	64665-57-2	5-10	yes
Sodium Salt of Hydroxy-ethylidenediphosphonic Acid	3794-83-0	1 - 15	Yes
Sodium Salt of Phosphono-butanetricarboxylic Acid	40372-66-5	1 - 10	Yes
Polymer/Solid	151006-66-5	10-20	Yes
Sodium Salt of HPA	23783-26-8	10-20	yes
Sodium salt of POCA	156105-39-4	10-20	yes
Sodium Polyacrylate	9003-04-07	10-15	Yes

* By OSHA definition, 29 CFR 1910.1200 (See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines)

Section 3 - Hazards Identification

Potential Health Effects:
Can cause irritation or damage to eyes and skin. Harmful if swallowed
Primary Entry Routes: Contact, Ingestion
Inhalation: Irritating to the respiratory tract..
Eyes: Causes irritation and, with extended contact, burns. Can result in severe damage.
Skin: Causes irritation with reddening and itching
Ingestion: Causes irritation to the mucous membranes or other tissues contacted. .
Carcinogenity: No listed carcinogens.
Medical Conditions Aggravated by Long-term Exposure: None known

HMIS

Health	**2**	Moderate hazard
Flammability	**0**	Minimal hazard
Physical Hazard	**0**	Minimal hazard
PPE	**C**	Goggles, gloves, apron

Section 4 - First Aid Measures

Eyes: Flush with clean cool water for 15 minutes holding eyelids open. See a physician immediately.
Skin: Immediately flush skin with plenty of water while removing contaminated clothing and boots. See a physician.
Ingestion: Drink plenty of water or milk. Do not induce vomiting. See a physician immediately.
Inhalation: Remove to fresh air. If not breathing give artificial respiration. See a physician.
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Section 5 - Fire-Fighting Measures

Flash Point: N/A solid product
Flash Point Method: N/A.
Burning Rate: Not applicable
Auto-ignition Temperature: N/A
LEL: Not established
UEL: Not established
Extinguishing Media: Water, ABC dry chemical
Unusual Fire or Explosion Hazards: None known.
Hazardous Combustion Products: Oxides of carbon, nitrogen, phosphorous, zinc
Fire-Fighting Instructions: Cool containers/exposed structures with water spray.
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill/Leak Procedures: Confine large spills. Do not flush with water. Collect spilled material into approved hazardous waste container. Residue may be cleaned up with water but rinse water may require collection and treatment prior to disposal. Spray residue of small spills with plenty of water. Follow all Federal, State and local regulations.
Containment and Cleanup: Absorb spill with inert material and collect for disposal. Dispose of according to federal, state and local regulations.

Section 7 – Handling & Storage

Handling Precautions: Avoid contact. Do not touch face or eyes when handling. Storage: When not in use keep container closed. Store in a cool dry location**.** Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not inhale mists. Use with adequate ventilation. For Industrial use only!
Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Store in closed container away from incompatible materials, heat and sources of ignition.
Regulatory Requirements: Store materials according to all local, state and federal guidelines that are established for corrosive materials.

Section 8 - Exposure Controls/Personal Protection

NIOSH REL limits not established for any of the ingredients listed in section 2.

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Eye Protection: Chemical goggles with face shield.

Skin Protection: Neoprene or natural rubber gloves,

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Other Protective Equipment: As required to minimize skin contact. Eye wash, safety shower,

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section – 9 Physical and Chemical Properties

Physical State: Solid
Appearance and Odor: Tan to brown amorphous solid.
Odor: slight Characteristic odor
Vapor Pressure: N/A
Vapor Density (Air=1): N/A
Specific Gravity (H_2O=1, at 4°C): 11 lb/gal
PH: 8-9 (1% solution)

Water Solubility: Complete but dissolves slowly
Other Solubilities: Not tested
Softening Point: 120-130 F
Boiling Point: Not determined
Freezing/Melting Point: Not determined
% Volatile: Not determined
Evaporation Rate: Not determined

Section 10 - Stability and Reactivity

Stability: Product stable under normal use conditions and temperatures.
Polymerization: Hazardous polymerization will not occur.
Chemical Incompatibilities: Strong oxidizing agents, strong alkalis, strong acids.
Conditions to Avoid: Keep container closed when not in use.
Hazardous Decomposition Products: Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, oxides of nitrogen, phosphorous, or other toxic by-products.

Section 11 - Toxicological Information

Acute Toxicity
Toxicology of this product has not been established. See also Section 3

Section 12 - Ecological Information

Eco-toxicity: Environmental effects of this product have not been established.

Section 13 - Disposal Considerations

Disposal: Review federal, state and local government requirements prior to disposal.
Disposal Regulatory Requirements: Follow all Federal, State and local regulations.
Container Cleaning and Disposal: Review federal, state and local government requirements prior to disposal.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: DOT: Non-regulated

Section 15 - Regulatory Information

All components are listed on the TSCA inventory.

SARA TITLE III –CERCLA LIST: This product does not contain any CERCLA Listed hazardous substance.

SARA TITLE III-TOXIC CHEMICAL LIST: This product does not contain any toxic chemicals subject to routine annual toxic chemical release reporting.

SARA TITLE III-EXTREMELY HAZARDOUS SUBSTANCE: This product does not contain any of the extremely hazardous listed substances subject to the emergency planning requirements.

Section 16 - Other Information

Prepared By: U.S. Water Services
Revision Notes: New

Disclaimer:

USERS RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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