

Product CT-1200P  
 Revision Date 07/28/2016  
 Revision 2




## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	CT-1200P
<b>Identifier Uses</b>	Cooling Water Treatment.
<b>Supplier</b>	Clear Water Technologies, LLC 13560 Colombar Court Fontana, California 92337 Tel: 844.429.8324
<b>Website</b>	<a href="http://www.aqua-serv.com">www.aqua-serv.com</a>
<b>Emergency Telephone</b>	24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500

### SECTION 2: HAZARDS IDENTIFICATION

<b>Appearance</b>	Clear, colorless liquid.
<b>Color</b>	Clear, colorless.
<b>Odor</b>	Sweet.
<b>Pictogram(s)</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statements</b>	H314 Causes severe skin burns and eye damage
<b>Precautionary Statements</b>	P280 Wear protective gloves/ protective clothing/eye protection/face protection. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician
<b>Contains</b>	sulfuric acid phosphonic acid sodium 4(or5)-methyl-1H-benzotriazolide
<b>GHS Classification</b>	
<b>Physical and Chemical Hazards</b>	Not classified
<b>Human Health</b>	Skin Corr. 1A - H314
<b>Environment</b>	Not classified
<b>OSHA Regulatory Status</b>	This product is Hazardous under the OSHA Hazard communication Standard.
<b>Inhalation</b>	There may be shortness of breath with a burning sensation in the throat.
<b>Ingestion</b>	Do not ingest. Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract, and possible burns.
<b>Skincontact</b>	Corrosive! Can cause redness, pain, and severe skin burns.
<b>Eye contact</b>	Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious eye damage.
<b>Routes of Exposure</b>	No Information available.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS****Composition Comments**

Confidential business information has been removed without affecting the overall safety information on the safety data sheet.

**SECTION 4: FIRST AID MEASURES**Description of first aid measures**General Information**

General first aid, rest, warmth and fresh air.

**Inhalation**

Remove victim immediately from source of exposure. Keep the affected person warm and at rest. Get prompt medical attention.

**Ingestion**

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention immediately!

**Skin contact**

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

**Eye contact**

Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse. Continue to rinse for at least 15 minutes.

Most important symptoms and effects, both acute and delayed**General Information**

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

**Inhalation**

There may be shortness of breath with a burning sensation in the throat.

**Ingestion**

Do not ingest. Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract, and possible burns.

**Skin contact**

Corrosive! Can cause redness, pain, and severe skin burns.

**Eye contact**

Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious eye damage.

**Routes of Exposure**

No Information available.

Most important symptoms and effects, both acute and delayed**Notes to the Physician**

Treat Symptomatically

**SECTION 5: FIREFIGHTING MEASURES****Auto Ignition Temperature (°C)**

No Information available.

**Flammability Limit-Lower (%)**

No Information available.

**Flammability Limit-Upper (%)**

No Information available.

**Flashpoint**

No Information available.

**Extinguishing Media**

Use fire-extinguishing media appropriate for surrounding materials. Water, foam, dry chemical or carbon dioxide.

**Hazardous combustion products**

No hazardous decomposition products.

**Unusual Fire & Explosion Hazards**

Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.

**Special Fire Fighting Procedures**

Use water to cool containers exposed to a fire. Avoid breathing fire vapors.

**Protective equipment for fire-fighters**

Wear full protective clothing and self-contained breathing apparatus, suitable gloves and boots.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal Precautions**

For personal protection, see section 8. In case of inadequate ventilation, use respiratory protection. Do not smoke, use open fire or other sources of ignition. In case of spills, beware of slippery floors and surfaces.

**Environmental Precautions  
Spill Clean Up Methods**

Keep out of drains, municipal sewers, open bodies of water and water course. Restrict non-essential personnel from the area. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer. Place into chemical waste container for disposal according to local, state or federal regulations. Neutralize residue with lime or soda ash and flush spill area. **DO NOT TOUCH SPILLED MATERIAL!** Wash thoroughly after dealing with a spillage.

**SECTION 7: HANDLING AND STORAGE**

<b>Handling</b>	Use proper personal protection when handling. Provide good ventilation. Avoid contact with skin and eyes and clothing. Do not use contact lenses. Avoid inhalation of vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.
<b>Usage Description</b>	Store in a cool, dry, and well-ventilated place away from incompatible materials. Vent containers frequently, and more often in warm weather to relieve pressure. Keep container tightly closed when not in use. Do not get in eyes, on skin, or on clothing.
<b>Storage Precautions</b>	Store closed containers in a cool, dry, well-ventilated area away from incompatible materials. This product is stable under normal conditions of handling and storage. Avoid cold temperatures. The recommended storage temperature is above 32°F, preferably at room temperature (70°F). Under ideal storage conditions, the shelf life is one (1) year. It is recommended that product be retested if stored for more than six (6) months. Keep away from oxidizing materials. Keep in a tightly closed container and store it in a cool, dry, ventilated area. Protect container against physical damage, direct sunlight, and freezing.
<b>Specific End Use(s)</b>	The identified uses are in section 1 of this Safety Data Sheet.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****Protective Equipment**

Component	STD	TWA (8 hrs.)		STEL (15mins)	Notes
sulfuric acid	OSHA		1mg/m3		

**Ingredient Comments**

OSHA

**Process Conditions  
Engineering Measures  
Respiratory Equipment**

Provide eyewash, quick drench.  
General mechanical ventilation is recommended for enclosed areas.  
Use of respirator protection is not generally required. However, if exposure is above the stated limits or ventilation is inadequate, use a NIOSH approved acid gas/organic vapor respirator to reduce potential for inhalation exposure. When using respirator cartridges, they must be changed frequently to assure breakthrough exposure does not occur.

**Hand Protection  
Eye Protection**

Use rubber gloves to minimize skin contact.  
To avoid contact with eyes, use chemical splash goggles. Face shield is recommended. Eye wash station should be available in the work area.

**Hygiene Measures**

**DO NOT SMOKE IN WORK AREA!** Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Information on Basic Physical and Chemical Properties**

<b>Appearance</b>	Clear, colorless liquid.
<b>Color</b>	Clear, colorless.
<b>Odor</b>	Sweet.

<b>Odor Threshold -Lower</b>	No Information available.
<b>Odor Threshold - Upper</b>	No Information available.
<b>pH-Value, Conc. Solution</b>	1.00
<b>Melting point</b>	25.0 °F
<b>Initial boiling point and boiling range</b>	212.0 °F
<b>Flashpoint</b>	No Information available.
<b>Evaporation rate</b>	No Information available.
<b>Flammability State</b>	No Information available.
<b>Flammability Limit-Lower (%)</b>	No Information available.
<b>Flammability Limit- Upper (%)</b>	No Information available.
<b>Vapor pressure</b>	23.8 mm Hg 0.0
<b>Vapor Density (air=1)</b>	No Information available.
<b>Relative density</b>	9.40 @ 68.0 °F
<b>Bulk Density</b>	No Information available.
<b>Solubility</b>	Completely soluble in water.
<b>Decomposition temperature</b>	No Information available.
<b>Partition coefficient; n-octanol/water</b>	No Information available.
<b>Auto Ignition Temperature (°C)</b>	No Information available.
<b>Viscosity</b>	No Information available.
<b>Explosive Properties</b>	No information available.
<b>Oxidizing properties</b>	No Information available.
<b>Molecular Weight</b>	No Information available.
<b>Volatile Organic Compound</b>	No Information available.

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## SECTION 10: STABILITY AND REACTIVITY

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<b>Reactivity</b>	Reactions may occur with strong oxidizing materials and strong acids.
<b>Stability</b>	This product is stable at ambient temperatures and atmospheric pressures.
<b>Hazardous Polymerization</b>	Hazardous polymerization is not expected to occur under normal temperatures and pressures.
<b>Hazardous Decomposition Products</b>	None under normal conditions.
<b>Conditions to Avoid</b>	Avoid extreme temperatures and storing in large quantities and for long periods of time.
<b>Materials to Avoid</b>	Keep away from strong oxidizing materials and strong acids.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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<b>Toxicological Information</b>	No toxicological information for the overall finished product.
<b>Acute Toxicity(OralLD50)</b>	>1853.00mg/kg Rat

<b>Acute Toxicity (Dermal LD50)</b>	>1105.00mg/kg Rabbit
<b>Acute Toxicity (Inhalation LC50)</b>	>1000.00mg/l (vapors) Rabbit
<b>Skin Corrosion/Irritation</b>	No Information available.
<b>Respiratory Sensitization</b>	No Information available.
<b>Skin Sensitization</b>	No Information available.
<b>Reproductive Toxicity:</b>	No Information available.
<b>Germ Cell Mutagenicity:</b>	
<b>Genotoxicity - In Vitro</b>	
<b>Genotoxicity - In Vivo</b>	
<b>Carcinogenicity:</b>	
<b>Carcinogenicity</b>	No Information available.
<b>NTP - Carcinogenicity</b>	sulfuric acid: Known human carcinogen.
<b>OSHA - Carcinogenicity</b>	The product and its components are not listed.
<b>IARC Carcinogenicity</b>	sulfuric acid: Not Listed.
<b>Specific Target Organ Toxicity - Single Exposure:</b>	
<b>STOT - Single Exposure</b>	No Information available.
<b>Specific Target Organ Toxicity - Repeated Exposure:</b>	
<b>STOT - Repeated Exposure</b>	No Information available.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
sodium 4(or 5)-methyl-1H-benzotriazolide	920mg/kg		

## SECTION 12: ECOLOGICAL INFORMATION


<b>Ecotoxicity</b>	No Information available.
<b>Acute Toxicity - Fish</b>	LC50 96 Hours >1890.00ppm Onchorhynchus mykiss (Rainbow Trout)
<b>Acute Toxicity - Aquatic Invertebrates</b>	LC50 48 Hours >2645.00ppm Daphnia magna
<b>Acute Toxicity - Aquatic Plants</b>	EC50 72 Hours >3730.00ppm
<b>Degradability</b>	No information available.
<b>Bioaccumulative Potential</b>	
<b>Mobility</b>	Completely soluble in water.
<b>Results of PBT and vPvB Assessment</b>	The product does not contain any PBT or vPvB substances.
<b>Other Adverse Effects</b>	None known.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic Invertebrates)	Acute Toxicity (Aquatic)
sodium 4(or 5)-methyl-1H-benzotriazolide	LC50 96 Hours 191.20mg/l Lepomis macrochirus (Bluegill) LC50 96 Hours 23.70 Onchorhynchus mykiss (Rainbow Trout)	LC50 48 Hours 245.70mg/l Daphnia magna	

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste Management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Disposal Methods</b>	Dispose of waste and residues in accordance with local authority requirements. Do NOT dump into any sewers, on the ground or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is emptied.

**SECTION 14: TRANSPORT INFORMATION**

<b>UN No. (DOT/TDG)</b>	1760 - CORROSIVE LIQUID, (Sulfuric Acid)
<b>UN No. (IMDG)</b>	1760 - CORROSIVE LIQUID, (Sulfuric Acid)
<b>UN No. (ICAO)</b>	1760 - Corrosive liquid (Sulfuric acid)
<b>DOT Proper Shipping Name</b>	1760 - CORROSIVE LIQUID, (Sulfuric Acid)
<b>TDG Proper Shipping Name</b>	1760 - CORROSIVE LIQUID, (Sulfuric Acid)
<b>DOT Hazard Class</b>	8
<b>DOT Hazard Label</b>	Class 8 - Corrosive
<b>TDG Class</b>	8
<b>TDG Label(s)</b>	8
<b>IMDG Class</b>	8
<b>ICAO Class</b>	8
<b>Transport Labels</b>	
<b>DOT Pack Group</b>	II
<b>IMDG Pack Group</b>	II
<b>Air Pack Group</b>	II
<b>EMS</b>	F-A, S-B
<b>Environmentally Hazardous Substance/Marine Pollutant</b>	No

**SECTION 15: REGULATORY INFORMATION**US Federal Regulations**SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

The Following ingredients are listed      None Listed.

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The Following ingredients are listed      None Listed.

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

The Following ingredients are listed      None Listed.

**SARA 313 Emission Reporting**

The Following ingredients are listed      None Listed.

**CAA Accidental Release Prevention**The Following ingredients are listed      sulfuric acid  
zinc sulfate**OSHA Highly Hazardous Chemicals**

The Following ingredients are listed      None Listed.

US State Regulations**California Proposition 65 Carcinogens and Reproductive Toxins**

The Following ingredients are listed      None Listed.

**California Air Toxics "Hot Spots" (A-I)**

The Following ingredients are listed      None Listed.

**California Air Toxics "Hot Spots" (A-II)**

The Following ingredients are listed      None Listed.

**Massachusetts "Right To Know" List**

The Following ingredients are listed      sulfuric acid  
zinc sulfate

**Rhode Island "Right To Know" List**

The Following ingredients are listed      None Listed.

**Minnesota "Right To Know" List**

The Following ingredients are listed      None Listed.

**New Jersey "Right To Know" List**

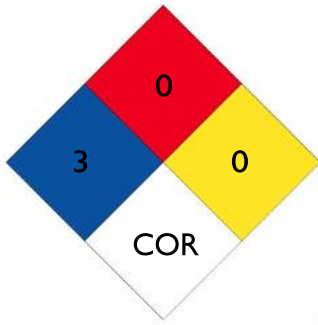
The Following ingredients are listed      sulfuric acid  
zinc sulfate  
phosphonic acid

**Pennsylvania "Right To Know" List**

The Following ingredients are listed      sulfuric acid  
zinc sulfate  
phosphonic acid

**SECTION 16: OTHER INFORMATION**

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**



**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

Health	3
Flammability	0
Physical Hazard	0
Personal Protection	D

**Revision Comments**

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**Disclaimer**

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