



SAFETY DATA SHEET

CT-1200P

1. IDENTIFICATION

Product Name: CT-1200P

Identified Uses: Cooling Water Treatment

Supplier: Clear Water Technologies, LLC
13560 Colombard Court
Fontana, CA 92337
United States

Contact Information: 951-681-9697
info@clearwatertech.com

24-Hour Emergency Telephone: INFOTRAC: 1-800-535-5053
International: 1-352-323-3500

2. HAZARDS IDENTIFICATION

This product is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012)

Appearance: Clear, light yellow to colorless liquid

Odor: None

Pictogram(s):



Signal Word: DANGER

GHS Classification: Skin Corrosion/Irritation Category 1
Eye Damage Irritation Category 1

Hazard Statement: Causes severe skin burns and serious eye damage.

PRECAUTIONARY STATEMENTS

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Do not breathe dust or mist. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection, and face protection.

Response: If swallowed: Rinse mouth. Do NOT induce vomiting.



If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash contaminated clothing before reuse. If exposed, immediately call a poison center/doctor. For specific treatment see Section 4 of the SDS.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local regulations.

Hazard(s) not otherwise classified (HNOC) None known.

3. COMPOSTION / INFORMATION ON INGREDIENTS

Chemical	Common Name and Synonyms	CAS Number	Percent (%)
Acrylic polymer	---	Proprietary	20 – 30
Phosphoric acid	H ₃ PO ₄	7664-38-2	8.0 – 12.0
1-hydroxy ethylidene-1,1-diphosphonic acid	HEDP	2809-21-4	2.0 – 4.0
Benzotriazole	BZT	95-14-7	2.0 – 4.0
Zinc sulfate monohydrate	ZnSO ₄	7446-19-7	4.0 – 8.0

4. FIRST-AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contaminated clothing. For minor skin contact, avoid spreading material onto unaffected skin. Immediately call a poison center or doctor. Wash contaminated clothing before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Ingestion: Do NOT induce vomiting unless instructed to by a physician. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed: Corrosive. Exposure to liquid product may cause moderate to severe irritation to skin, and possible burns, and severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, itching, swelling, blisters or pain.

Indication of any immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Symptoms may be delayed.



General Information: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use dry chemical, carbon dioxide, foam or water spray. Do not use water jets.
Unsuitable extinguishing media:	No data available.
Specific hazards arising from the chemical:	Fire or heat will produce irritating, toxic and/or corrosive gases, including oxides of phosphorus.
Special protective equipment and precautions for firefighters:	Liquid-tight chemical protective clothing (splash suit) in combination with self-contained breathing apparatus (SCBA) should be used.
Firefighting equipment/instructions:	Contain runoff from fire control or dilution water – runoff may be toxic and/or corrosive and may pollute waterways.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards:	The product is not flammable, combustible, or explosive.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	Keep unnecessary people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate PPE. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up:	Stop the flow of material, if possible, without risk. Dike the spilled material, where possible. Absorb the spill with inert materials, dry sand or earth and place into suitable containers for disposal. Following product recovery flush area with water. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental Precautions:	Avoid discharge into drain, municipal sewers, water courses or onto ground.

7. HANDLING AND STORAGE

Precautions for safe handling:	Use proper personal protective equipment when handling. Do not eat, drink, or smoke in work areas. Wash thoroughly after handling. Rinse container before disposal. Safety showers and eyewash stations should be provided within the immediate area for emergency use.
Conditions for safe storage and incompatible materials:	Store locked up. Store in original and tightly closed container in a cool, dry, and well-ventilated area. Store away from incompatible materials (see Section 10 of the SDS). The recommended storage temperature is above 32°F, preferably at room temperature (70°F). Protect container against physical damage, direct sunlight, and freezing.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:	No value assigned for the overall material. Phosphoric Acid (CAS# 7664-38-2) – OSHA PEL: TWA = 1 mg/m ³
Biological limit values:	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls:	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Eye/face protection:	Wear safety goggles and face shield in case of splash risk. Wear appropriate safety goggles.
Skin protection:	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.
Respiratory protection:	Use of respirator protection is not generally required. However, if exposure is above the stated limits or ventilation is inadequate, use a chemical respirator with organic vapor cartridge and full facepiece.
Thermal protection:	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Do NOT eat or smoke in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless to light yellow liquid
Odor:	None.
Odor threshold:	Not available.
pH:	< 1.0
Melting point / freezing point:	32°F (0°C) estimated.
Initial boiling point and boiling range:	212°F (100°C) estimated.



Flash point:	Not applicable.
Evaporation rate:	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Flammability limit – lower (%): Not available Flammability limit – upper (%): Not available Explosive limit – lower (%): Not available Explosive limit – upper (%): Not available
Vapor pressure:	Not available.
Vapor density:	Not available.
Relative density:	1.191 (water = 1.0)
Solubility(ies):	Solubility in water: Soluble. Solubility (other): Not available.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Density:	9.94 lbs./gal
Explosive properties:	Not explosive.
Oxidizing properties:	Not oxidizing.

10. STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage, and transport. The substance is a medium-strong acid; can react violently with bases.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Material is stable under normal conditions.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents, reducing agents, strong caustic materials.
Hazardous decomposition products:	May release irritating, toxic and/or corrosive gases, including oxides of phosphorus, zinc and sulfur in a fire.



11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:	No data available.
Skin contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Symptoms related to the physical, chemical, and toxicological characteristics:

Corrosive. Exposure to liquid product may cause moderate to severe irritation to skin, and possible burns, and severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, itching, swelling, blisters or pain.

Information on toxicological effects

No toxicological information available on the overall finished product.

Acute toxicity:

Calculated ATE values for this mixture are:
ATE oral = 5,382 mg/kg

Skin corrosion / irritation:

Corrosive. May cause severe skin burns or irritation.

Serious eye damage / eye irritation:

Corrosive. May cause serious eye irritation or permanent eye damage.

Respiratory or skin sensitization:

No information available.

Germ cell mutagenicity:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity:	Not listed.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053):	Not listed.
US. National Toxicology Program (NTP) Report on Carcinogens:	Not listed.

Reproductive toxicity:

Not classified.

Specific target organ toxicity – single exposure:

Not classified.

Specific target organ toxicity – repeated exposure:

Not classified.

Aspiration hazard:

No data available.

12. ECOLOGICAL INFORMATION



Ecotoxicity:	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability:	No data available.
Bioaccumulation potential:	No data available.
Mobility in soil:	No data available.
Other adverse effects:	No other adverse environmental effects are expected from this product.

13. DISPOSAL CONSIDERATIONS

Disposal instructions:	Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations:	Dispose in accordance with all applicable regulations.
Waste from residues / unused products:	Dispose of product in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging:	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORTATION INFORMATION

DOT Information:

UN Number	UN 3264
UN Proper shipping name:	CORROSIVE LIQUIDS, ACIDIC, INORGANIC, (PHOSPHORIC ACID)
Transportation hazards class(es):	8 - CORROSIVE
Packing group:	III
Marine pollutant:	Not regulated.

Transport information on packaging may be different from that listed.

15. REGULATORY INFORMATION

US federal regulations:	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Toxic substance control act (TSCA)	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):	Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4):	Phosphoric acid (RQ: 5,000 lbs.) Zinc sulfate (RQ: 1,000 lbs.)
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053):	Not Listed.
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
SARA 304 Emergency release notification:	Not Listed.

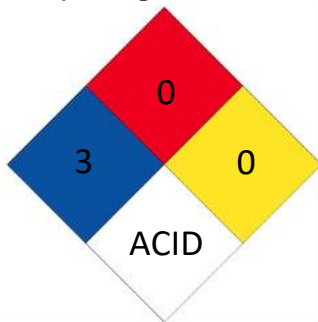


SARA 302 Extremely hazardous substance:	Not Listed.
SARA 311/312 Hazardous chemical:	Yes
Classified hazard categories:	Corrosive.
SARA 313 (TRI reporting):	Zinc sulfate
Other federal regulations	
Clean Water Act (CWA) Section 113 Hazardous Substances (40 CFR 122.21 & 122.42)	Zinc sulfate – CWA Toxic Pollutants.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):	Not Listed.
US state regulations	
California Proposition 65	Zinc sulfate.
New Jersey Worker and Community Right-to-Know Act	Zinc sulfate.
Massachusetts RTK – Substance List	Not Listed.
Minnesota RTK – Substance List	Phosphoric acid.
Pennsylvania RTK – Hazardous Substances	Phosphoric acid, Zinc sulfate.
Rhode Island RTK	Phosphoric acid.

16. OTHER INFORMATION

National Fire Protection Association (NFPA) ratings:

Health: 3
 Flammability: 0
 Instability: 0
 Other: ACID



Hazardous Material Information System (HMIS) ratings:

Health: 3
 Flammability: 0
 Physical Hazard: 0
 Personal Protection: D

Health	3
Flammability	0
Physical Hazard	0
Personal Protection	D

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Disclaimer:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



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