



Product CT-1700P
 Revision Date 5/22/2015
 Revision 1

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name	CT-1700P
Identifier Uses	Cooling Water Treatment.
Supplier	Clear Water Technologies, LLC 13560 Colombar Court Fontana, California 92337 Tel: 844-429-8324
Contact Person	info@clearwatertech.com
Emergency Telephone	24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Appearance	Clear, amber liquid.
Color	Clear, amber liquid.
Odor	Mild.

Pictogram(s)



Signal Word	Danger
Hazard Statements	H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction H373 May cause damage to organs [*] through prolonged or repeated exposure [*].
Precautionary Statements	P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. 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
Contains	etidronic acid phosphonic acid hydroxyphosphonoacetic acid phosphoric acid ... %, orthophosphoric acid ... % phosphorous acid maleic acid sodium 4(or 5)-methyl-1H-benzotriazolide
GHS Classification	
Physical and Chemical Hazards	Not classified
Human Health	Skin Irrit.2 - H315, Eye Dam. 1 - H318, Skin. Sens 1 - H317, STOT RE 2 - H373
Environment	Not classified

OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
Inhalation	No specific symptoms noted; inhalation is not believed to be a likely route of exposure.
Ingestion	Exposure to liquid product is not expected to result in significant adverse effects.
Skin contact	Slightly irritating to skin. Symptoms of exposure may include redness, swelling or pain.
Eye contact	Exposure to liquid product may cause moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
Routes of Exposure	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.
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SECTION 4: FIRST AID MEASURES

Description of first aid measures

General Information	General first aid, rest, warmth and fresh air.
Inhalation	If this product is inhaled, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
Ingestion	If this product is ingested, drink small amounts of water and seek medical attention promptly. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Skin contact	If this product contacts the skin, immediately flush the affected area with plenty of clean running water for at least fifteen (15) minutes. If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Seek medical attention if irritation persists.
Eye contact	If the product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn. Seek medical attention if irritation persists.

Most important symptoms and effects, both acute and delayed

General Information	
Inhalation	No specific symptoms noted; inhalation is not believed to be a likely route of exposure.
Ingestion	Exposure to liquid product is not expected to result in significant adverse effects.
Skin contact	Slightly irritating to skin. Symptoms of exposure may include redness, swelling or pain.
Eye contact	Exposure to liquid product may cause moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
Routes of Exposure	No Information available.

Most important symptoms and effects, both acute and delayed

Notes to the Physician	Treat Symptomatically
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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	Oxides of carbon, possibly toxic phosphines.
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.
rotective equipment for fire- fighters breathing apparatus available.	Fire fighters should wear full protective equipment, and have self-contained

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	For personal protection, see section 8.
Environmental Precautions	Keep out of drains, municipal sewers, open bodies of water and water course.
Spill Clean Up Methods	Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. For small spills, neutralize with baking soda and flush to sewer. For large spills, dike spill area and soak up material with sand or other absorbent. 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.

SECTION 7: HANDLING AND STORAGE

Handling	Use proper personal protection when handling (refer to Section 8). Avoid contact with eyes, skin and clothing. Use under well-ventilated conditions. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.
Usage Description	Use only according to directions.
Storage Precautions	The recommended shelf life is two (2) years. It is recommended that products be retested if stored for more than two (2) years. Under ideal storage conditions, the shelf life is almost indefinite.
Specific End Use(s)	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
phosphoric acid ... %, orthophosphoric acid ... %	OSHA		1mg/m3	

Ingredient Comments	OSHA
Process Conditions	Provide eyewash, quick drench.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	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	Use rubber or plastic gloves to minimize skin contact.
Eye Protection	To avoid contact with eyes, use safety glasses or 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**

Appearance	Clear, amber liquid.
Color	Clear, amber liquid.
Odor	Mild.
Odor Threshold -Lower	No Information available.
Odor Threshold - Upper	No Information available.
pH-Value, Conc. Solution	10.0
Melting point	32.0 °F
Initial boiling point and boiling range	212.0 °F
Flash point	No Information available.
Evaporation rate	No Information available.
Flammability State	No Information available.
Flammability Limit-Lower (%)	No Information available.
Flammability Limit- Upper (%)	No Information available.
Vapor pressure	23.8 mm Hg 0.0
Vapor Density (air=1)	No Information available.
Relative density	1.131 @ 68.0 °F
Bulk Density	No Information available.
Solubility	Completely soluble in water.
Decomposition temperature	No Information available.
Partition coefficient; n-octanol/water	No Information available.
Auto Ignition Temperature (°C)	No Information available.
Viscosity	No Information available.
Explosive Properties	No information available.
Oxidizing properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Reactions may occur with oxides of carbon, possibly toxic phosphine.
Stability	This product is stable at ambient temperatures and atmospheric pressures.
Hazardous Polymerization	Hazardous polymerization is not expected to occur under normal temperatures and pressures.
Hazardous Decomposition Products	Oxides of carbon, possibly toxic phosphine.
Conditions to Avoid	Avoid exposing to heat and contact with strong alkali and oxidizing materials.
Materials to Avoid	Keep away from strong alkali and oxidizing materials.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information	No toxicological information for the overall finished product
Acute Toxicity (Oral LD50)	~5012.00mg/kg Rat
Acute Toxicity (Dermal LD50)	>1426.00mg/kg Rabbit
Acute Toxicity (Inhalation LC50)	No Information available.
Skin Corrosion/Irritation	No Information available.
Respiratory Sensitization	No Information available.
Skin Sensitization	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	
Genotoxicity - In Vitro	
Genotoxicity - In Vivo	
Carcinogenicity:	
Carcinogenicity	No Information available.
NTP - Carcinogenicity	The product and its components are not listed.
OSHA - Carcinogenicity	The product and its components are not listed.
IARC Carcinogenicity	The product and its components are not listed.
Specific Target Organ Toxicity - Single Exposure:	
STOT - Single Exposure	No Information available.
Specific Target Organ Toxicity - Repeated Exposure:	
STOT - Repeated Exposure	No Information available.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
sodium metaphosphate	6200mg/kg Rat	>7940mg/kg Rabbit	
sodium 4(or 5)-methyl-1H-benzotriazolide	920mg/kg		

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No Information available.
Acute Toxicity - Fish	LC50 96 Hours >4200.00 Onchorhynchus mykiss (Rainbow Trout)
Acute Toxicity - Aquatic Invertebrates	LC50 48 Hours >4500.00ppm Daphnia magna
Acute Toxicity - Aquatic Plants	EC50 72 Hours > 1900.00ppm
Degradability	No information available.
Bioaccumulative Potential	No Information available.
Mobility	Completely soluble in water.
Results of PBT and vPvB Assessment	The product does not contain any PBT or vPvB substances
Other Adverse Effects	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

Waste Management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Disposal Methods	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. Dispose in accordance with all applicable federal, state and local laws and regulations.

SECTION 14: TRANSPORT INFORMATION

UN No. (DOT/TDG)	Not applicable.
UN No. (IMDG)	Not applicable.
UN No. (ICAO)	Not applicable.
DOT Proper Shipping Name	Not applicable.
TDG Proper Shipping Name	Not applicable.
DOT Hazard Class	Not applicable.
DOT Hazard Label	Not applicable.
TDG Class	Not applicable.
TDG Label(s)	Not applicable.
IMDG Class	Not applicable.
ICAO Class	Not applicable.
Transport Labels	
DOT Pack Group	Not applicable.
IMDG Pack Group	Not applicable.
Air Pack Group	Not applicable.
EMS	Not applicable.
Environmentally Hazardous Substance/Marine Pollutant	No

SECTION 15: REGULATORY INFORMATION

US Federal Regulations**SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

The Following ingredients are listed maleic acid

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

The Following ingredients are listed phosphoric acid ... %, orthophosphoric acid ... %
maleic acid

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

The Following ingredients are listed maleic acid

SARA 313 Emission Reporting

The Following ingredients are listed maleic acid

CAA Accidental Release Prevention

The Following ingredients are listed sodium metaphosphate
maleic acid

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 phosphoric acid ... %, orthophosphoric acid ... %

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

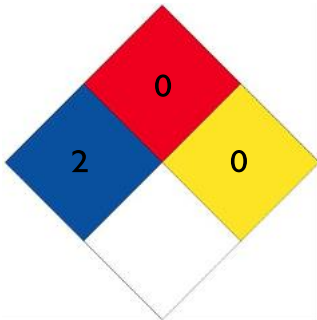
The Following ingredients are listed None Listed.

Massachusetts "Right To Know" ListThe Following ingredients are listed sodium metaphosphate
phosphoric acid ... %, orthophosphoric acid ... %
maleic acid**Rhode Island "Right To Know" List**The Following ingredients are listed phosphoric acid ... %, orthophosphoric acid ... %
maleic acid**Minnesota "Right To Know" List**

The Following ingredients are listed phosphoric acid ... %, orthophosphoric acid ... %

New Jersey "Right To Know" ListThe Following ingredients are listed phosphonic acid
phosphoric acid ... %, orthophosphoric acid ... %
maleic acid**Pennsylvania "Right To Know" List**The Following ingredients are listed sodium metaphosphate
phosphonic acid
phosphoric acid ... %, orthophosphoric acid ... %
maleic acid

SECTION 16: OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

Healt	2
Flammabilit	0
Physical	0
Personal Protection	B

Revision Comments

Revision Date 5/22/2015

Revision 1

Disclaimer

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