



Product CT-1500P
 Revision Date 07/26/2016
 Revision 1

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name	CT-1500P
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, pale yellow liquid.
Color	Clear, pale yellow liquid.
Odor	Aromatic

Pictogram(s)



Signal Word

Warning

Hazard Statements

H315 Causes skin irritation.
 H319 Causes serious eye irritation.

Precautionary Statements

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.
 P280 Wear protective gloves/ protective clothing/eye protection/face protection. P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P202 Do not handle until all safety precautions have been read and understood.

Contains

etidronic acid
 phosphoric acid ... %, orthophosphoric acid ... %
 sodium hydroxide
 phosphonic acid

GHS Classification

Physical and Chemical Hazards
Human Health
Environment

Not classified
 Skin Irrit.2 - H315, Eye Dam. 1 - H318
 Not classified

OSHA Regulatory Status

This product is Hazardous under the OSHA Hazard communication Standard.

Inhalation
Ingestion

No specific symptoms noted, inhalation is not believed to be a likely route of exposure.
 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
Eye contact

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

Routes of Exposure

Unknown

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 MEASURESDescription 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

No specific symptoms noted, inhalation is not believed to be a likely route of exposure.

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

May cause irritation, redness, and pain.

Eye contact

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

Routes of Exposure

Unknown

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

Oxides of carbon and 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. 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

Keep out of drains, municipal sewers, open bodies of water and water course.

Spill Clean Up Methods

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

Handling	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.
Usage Description	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.
Storage Precautions	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). 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. Keep away from alkali and oxidizing materials.
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			
sodium hydroxide	OSHA		2mg/m3			

Ingredient Comments

OSHA

**Process Conditions
Engineering Measures**

Provide eyewash, quick drench.

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

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

When handling this product, it is recommended to wear chemical resistant gloves. The choice of suitable protective gloves depends on work conditions and what chemicals are handled, but we have positive experience with gloves made of Rubber.

Eye Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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, pale yellow liquid.
Color	Clear, pale yellow liquid.
Odor	Aromatic
Odor Threshold -Lower	No Information available.
Odor Threshold - Upper	No Information available.
pH-Value, Conc. Solution	2.1

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)	Not determined.
Relative density	1.6 @ 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	Reaction may occur with strong alkali and oxidizing materials.
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	Hazardous decomposition may result in oxides of carbon and possibly toxic phosphines.
Conditions to Avoid	Avoid extreme temperatures and storing in large quantities and for long periods of time.
Materials to Avoid	Avoid contact with strong alkali and oxidizing materials.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information	No Information available.
Acute Toxicity (Oral LD50)	>4465.00mg/kg Rat
Acute Toxicity (Dermal LD50)	>1245.00mg/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 hydroxide		1350mg/kg Rabbit	

SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity	No Information available.
Acute Toxicity - Fish	LC50 96 Hours >2500.00ppm Onchorhynchus mykiss (Rainbow Trout)
Acute Toxicity - Aquatic Invertebrates	LC50 48 Hours >1950.00ppm Daphnia magna
Acute Toxicity - Aquatic Plants	EC50 48 Hours >1900.00ppm
Degradability	No information available.
Bio accumulative 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)	Acute Toxicity (Aquatic Plants)
sodium hydroxide		EC50 100.00ppm 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	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

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

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

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

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

The Following ingredients are listed

SARA 313 Emission Reporting

The Following ingredients are listed

CAA Accidental Release Prevention

The Following ingredients are listed

OSHA Highly Hazardous Chemicals

The Following ingredients are listed

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

The Following ingredients are listed

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

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

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

The Following ingredients are listed

Massachusetts "Right To Know" List

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

Rhode Island "Right To Know" List

The Following ingredients are listed nitrilotrimethylenetris(phosphonic acid)
phosphoric acid ... %, orthophosphoric acid ... %
sodium hydroxide

Minnesota "Right To Know" List

The Following ingredients are listed

nitrilotrimethylenetris(phosphonic acid)
 phosphoric acid ... %, orthophosphoric acid ... %
 sodium hydroxide

New Jersey "Right To Know" List

The Following ingredients are listed

nitrilotrimethylenetris(phosphonic acid)
 phosphoric acid ... %, orthophosphoric acid ... %
 sodium hydroxide
 phosphonic acid

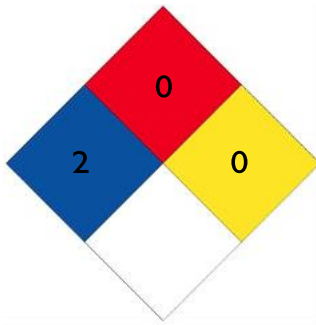
Pennsylvania "Right To Know" List

The Following ingredients are listed

nitrilotrimethylenetris(phosphonic acid)
 phosphoric acid ... %, orthophosphoric acid ... %
 sodium hydroxide
 phosphonic acid

SECTION 16: OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	B

Revision Comments No Information available.
Revision Date 5/15/2015
Revision I

Disclaimer

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