

Product CT-I400P  
 Revision Date 08/08/2016  
 Revision 2



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	CT-I400P
<b>Identifier Uses</b>	Cooling Water Treatment.
<b>Supplier</b>	Clear Water Technologies, LLC 13560 Colombard Court Fontana, California 92337 Tel: 844-429-8324
<b>Website</b> Emergency Telephone	info@cheminc.com 24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500

### SECTION 2: HAZARDS IDENTIFICATION

<b>Appearance</b>	Clear, pale yellow liquid.
<b>Color</b>	Clear pale yellow liquid.
<b>Odor</b>	Bland.

**Pictogram(s)**



<b>Signal Word</b>	Warning
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<b>Hazard Statements</b>	H315 Causes skin irritation. H319 Causes serious eye irritation.
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<b>Precautionary Statements</b>	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.
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<b>Contains</b>	Potassium Hydroxide
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<b>GHS Classification</b>	
<b>Physical and Chemical Hazards</b>	Not classified
<b>Human Health</b>	Skin Irrit. 2 – H315, Eye Irrit. 2 – H319
<b>Environment</b>	Not classified

<b>OSHA Regulatory Status</b>	This Product is Hazardous under the OSHA Hazard Communication Standard.
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<b>Inhalation</b>	Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
<b>Routes of Exposure</b>	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 MEASURES

#### Description of first aid measures

<b>General Information</b>	General first aid, rest, warmth and fresh air. Get medical attention.
<b>Inhalation</b>	Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly. Get medical attention if any discomfort continues.
<b>Skin contact</b>	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.
<b>Eye contact</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### Most important symptoms and effects, both acute and delayed

<b>General Information</b>	As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person.
<b>Inhalation</b>	Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
<b>Routes of Exposure</b>	Unknown

#### Most important symptoms and effects, both acute and delayed

<b>Notes to the Physician</b>	Treat Symptomatically.
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### SECTION 5: FIREFIGHTING MEASURES

<b>Auto Ignition Temperature (°C)</b>	No Information available
<b>Flammability Limit - Lower (%)</b>	No Information available
<b>Flammability Limit - Upper (%)</b>	No Information available
<b>Flash point</b>	No Information available
<b>Extinguishing Media</b>	Use fire-extinguishing media appropriate for surrounding materials. Water spray, foam, dry powder or carbon dioxide.
<b>Hazardous combustion products</b>	Oxides of carbon, possibly toxic phosphines.
<b>Unusual Fire &amp; Explosion Hazards</b>	Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.
<b>Special Fire Fighting Procedures</b>	Ventilate closed spaces before entering them. Water spray should be used to cool containers.
<b>Protective equipment for fire-fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	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. No Information available.
<b>Environmental Precautions</b>	Do not discharge into drains, water courses or onto the ground.
<b>Spill Clean Up Methods</b>	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>	Product for external use - do not swallow. Avoid all contact with skin, eyes and clothes.
<b>Usage Description</b>	Handle in accordance with user instructions on label do not use contact lenses.
<b>Storage Precautions</b>	Cooling Water Treatment. 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.
<b>Specific End Use(s)</b>	The identified uses for this product are detailed in Section I

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Protective Equipment



Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
Potassium Hydroxide	OSHA		2mg/m <sup>3</sup>			

<b>Process Conditions</b>	Provide eyewash, quick drench.
<b>Engineering Measures</b>	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
<b>Respiratory Equipment</b>	Not applicable in normal conditions of use. In case of insufficient ventilation, with the risk of Exceeding the Occupational Exposure Limits, wear suitable breathing apparatus. Particularly breathing apparatus, P2 type.
<b>Hand Protection</b>	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 Nitrile. Gloves should be replaced immediately if sign of degradation is observed. Full contact: Material: butyl-rubber Minimum layer thickness: 0.3mm Breakthrough time: 480min Splash contact: Nitrile rubber Minimum layer thickness: 0.2mm Breakthrough time: 38min
<b>Eye Protection</b>	Wear approved safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Hygiene Measures</b>	Wear approved safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

<b>Appearance</b>	Clear, pale yellow liquid.
<b>Color</b>	Clear pale yellow liquid.
<b>Odor</b>	Bland.
<b>Odor Threshold - Lower</b>	No Information available.
<b>Odor Threshold - Upper</b>	No Information available.
<b>pH-Value, Conc. Solution</b>	2.3
<b>Melting point</b>	32 °F
<b>Initial boiling point and boiling range</b>	212 °F
<b>Flash point</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
<b>Vapor Density (air=1)</b>	Not determined.
<b>Relative density</b>	8.86 @68 °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>	Not determined

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable under normal temperature conditions and recommended use.
<b>Hazardous Polymerization</b>	Hazardous polymerization is not expected to occur under normal temperatures and pressures..
<b>Hazardous Decomposition Products</b>	Hazardous decomposition will result in the release of oxides of carbon, possibly toxic phosphines.
<b>Conditions to Avoid</b>	Avoid exposing to heat and contact with strong oxidizing substances.
<b>Materials to Avoid</b>	Do not mix with other chemicals unless listed on directions. Keep away from strong oxidizing materials and strong acids.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Toxicological Information</b>	No toxicological information for the overall finished product.
<b>Acute Toxicity (Oral LD50)</b>	>5012 mg/kg Rat
<b>Acute Toxicity (Dermal LD50)</b>	>1426 mg/kg Rabbit
<b>Acute Toxicity (Inhalation LD50)</b>	Not determined.
<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</b>	
<b>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>	The product and its components are not listed.
<b>OSHA - Carcinogenicity</b>	The product and its components are not listed.
<b>IARC Carcinogenicity</b>	The product and its components are 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	LD50 Inhalation
1,3,6,8-Pyrenetetrasulfonic acid, sodium salt 1,3,6,8-Pyrenetetrasulfonic acid, tetrasodium salt hydrate Tetrasodium pyrene-1,3,6,8-tetrasulphonate			
etidronic acid			
nitrilotrimethylenetrakis(phosphonic acid)			
phosphoric acid ... %, orthophosphoric acid ... %			
(2R,3R)-2,3-dimethylbutanedioic acid 2-Butenedioic acid (2Z)-, homopolymer 2-Butenedioic acid (2Z)-, homopolymer 607-861-7 ACIDO POLIMALEICO Hydrolyzed Polymaleic Anhydride POLY(MALEIC ACID) Poly(maleic acid) Polymaleic acid poly(maleic acid) polymaleic acid			

maleic acid			
benzotriazole	675.00mg/kg Rat	>2000.00mg/kg Rabbit	
propan-2-ol isopropyl alcohol isopropanol	5480.00mg/kg Rat	13000.00mg/kg Rabbit	
potassium hydroxide	284.00mg/kg Rat		

## SECTION 12: ECOLOGICAL INFORMATION

<b>Eco toxicity</b>	No Information available No Information available
<b>Acute Toxicity - Fish</b>	LC50 96 Hours >4200 ppm Onchorhynchus mykiss (Rainbow Trout)
<b>Acute Toxicity - Aquatic Invertebrates</b>	LC50 48 Hours >4500 ppm Daphnia magna
<b>Acute Toxicity - Aquatic Plants</b>	EC50 72 Hours >1900 ppm
<b>Degradability</b>	No information available.
<b>Bio accumulative Potential</b>	No Information available.
<b>Mobility</b>	No Information available.
<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 Plants)
benzotriazole	LC50 96 Hours 21.40mg/l Onchorhynchus mykiss (Rainbow Trout)		

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste Management</b>	Observe all local, national and international regulations.
<b>Disposal Methods</b>	No specific disposal method required.

## SECTION 14: TRANSPORT INFORMATION

<b>UN No. (DOT/TDG)</b>	Not applicable.
<b>UN No. (IMDG)</b>	Not applicable.
<b>UN No. (ICAO)</b>	Not applicable.
<b>DOR Proper Shipping Name</b>	Not applicable.
<b>TDG Proper Shipping Name</b>	Not applicable.
<b>DOT Hazard Class</b>	Not applicable.
<b>DOT Hazard Label</b>	Not applicable.
<b>TDG Class</b>	Not applicable.
<b>TDG Label(s)</b>	Not applicable.
<b>IMDG Class</b>	Not applicable.
<b>ICAO Class</b>	Not applicable.

**Transport Labels**

<b>DOT Pack Group</b>	Not applicable.
<b>IMDG Pack Group</b>	Not applicable.
<b>Air Pack Group</b>	Not applicable.
<b>EMS</b>	Not applicable.
<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      maleic acid

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

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

**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  
    propan-2-ol isopropyl alcohol isopropanol

**CAA Accidental Release Prevention**

The Following ingredients are listed      maleic acid

**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 ... %

**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 ... %  
    maleic acid  
    benzotriazole  
    propan-2-ol isopropyl alcohol isopropanol  
    potassium hydroxide

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

The Following ingredients are listed      nitrilotrimethylenetris(phosphonic acid)  
    phosphoric acid ... %, orthophosphoric acid ... %  
    maleic acid  
    propan-2-ol isopropyl alcohol isopropanol  
    potassium hydroxide

**Minnesota "Right To Know" List**

The Following ingredients are listed      nitrilotrimethylenetris(phosphonic acid)  
    phosphoric acid ... %, orthophosphoric acid ... %  
    propan-2-ol isopropyl alcohol isopropanol  
    potassium hydroxide

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

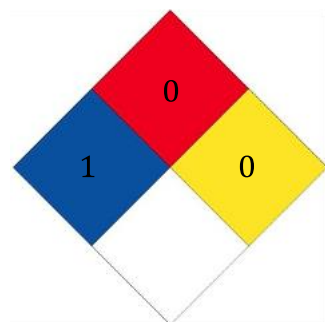
The Following ingredients are listed

phosphonic acid  
 nitrilotrimethylenetris(phosphonic acid)  
 phosphonic acid  
 phosphoric acid ... %, orthophosphoric acid ... %  
 maleic acid  
 benzotriazole  
 propan-2-ol isopropyl alcohol isopropanol  
 potassium hydroxide

**Pennsylvania "Right To Know" List**

The Following ingredients are listed

phosphonic acid  
 nitrilotrimethylenetris(phosphonic acid)  
 phosphonic acid  
 phosphoric acid ... %, orthophosphoric acid ... %  
 maleic acid  
 propan-2-ol isopropyl alcohol isopropanol  
 potassium hydroxide

**SECTION 16: OTHER INFORMATION****NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)****HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	0
<b>PHYSICAL HAZARD</b>	0
<b>PERSONAL PROTECTION</b>	B

**Revision Comments**

Revision Date 08/08/2016

Revision 2

**Disclaimer**

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