Product CT-1300
Revision Date 5/15/2015
Revision 1

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name CT-1300
Identifier Uses Cooling Water Treatment

Supplier
Clear Water Technologies, LLC
13560 Colombard 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 Liquid.
Color Clear, pale yellow liquid.
Odor Bland.

Pictogram(s)

Signal Word Warning

Hazard Statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction

Precautionary Statements
P280 Wear protective gloves/ protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
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
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Contains
etidronic acid
phosphoric acid ... %, orthophosphoric acid ... %
maleic acid
potassium hydroxide
phosphonic acid

GHS Classification
Physical and Chemical Hazards: Not classified
Human Health: Skin Irrit.2 - H315, Eye Irrit.2A - H315, Skin. Sens 1 - H317
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 Rinse mouth thoroughly. Get medical attention if any discomfort continues.
Skin contact Skin irritation. May cause allergic reactions.
Eye contact irritation of eyes may cause redness, swelling, pain and tearing. Causes moderated to severe irritation to eyes.
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 MEASURES

Description of first aid measures

General Information	General first aid, rest, warmth and fresh air. Get medical attention.
Inhalation	Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly. Get medical attention if any discomfort continues.
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	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

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	Rinse mouth thoroughly. Get medical attention if any discomfort continues.
Skin contact	Skin irritation. May cause allergic reactions.
Eye contact	irritation of eyes may cause redness, swelling, pain and tearing. Causes moderated to severe irritation to eyes.
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 (%)	0.0
Flash point	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			
propan-2-ol isopropyl alcohol isopropanol	OSHA	400ppm	980mg/m3			

Ingredient Comments
OSHA

Process Conditions
Provide eyewash, quick drench.

Engineering Measures
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
Liquid.

Color
Clear, pale yellow liquid.

Odor
Bland.

Odor Threshold - Lower
No Information available.

Odor Threshold - Upper
No Information available.

pH-Value, Conc. Solution	2.3
Melting point	32.0 °F
Initial boiling point and boiling range	212.0 °F
Flash point	No Information available.
Evaporation rate	0.0
Flammability State	No Information available.
Flammability Limit - Lower (%)	No Information available.
Flammability Limit - Upper (%)	0.0
Vapor pressure	23.8 mm Hg 0.0
Vapor Density (air=1)	Not determined.
Relative density	1.04 @ 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)	>4456.00mg/kg Rat
Acute Toxicity (Dermal LD50)	>1107.00mg/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 **propan-2-ol isopropyl alcohol isopropanol**: 3 IARC Group 3 Not classifiable as to its carcinogenicity to humans.

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
benzotriazole	675mg/kg Rat	>2000mg/kg Rabbit	
potassium hydroxide	284mg/kg Rat		

SECTION 12: Ecological Information

Eco toxicity No Information available.

Acute Toxicity - Fish LC50 96 Hours >2000.00ppm Onchorhynchus mykiss (Rainbow Trout)
Acute Toxicity - Aquatic Invertebrates LC50 48 Hours >1950.00ppm Daphnia magna

Acute Toxicity - Aquatic Plants EC50 72 Hours >2000.00ppm

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

Name	Acute Toxicity	Acute Toxicity (Aquatic Invertebrates)	Acute Toxicity (Aquatic Plants)
phosphonic acid			
benzotriazole		LC50 96 Hours 21.40mg/l Onchorhynchus mykiss (Rainbow Trout)	

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: 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

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

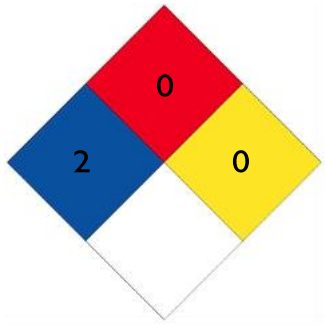
Pennsylvania "Right To Know" List

The Following ingredients are listed

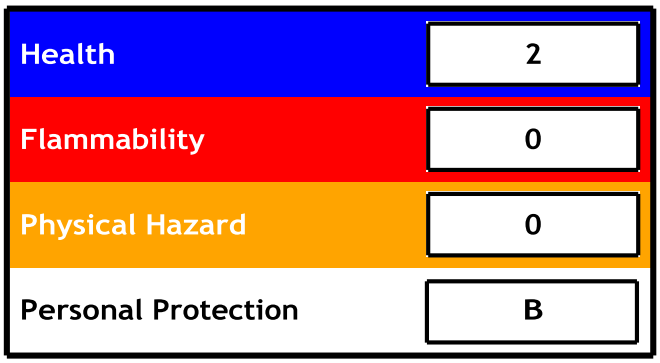
nitrilotrimethylenetris(phosphonic acid)
phosphoric acid ... %, orthophosphoric acid ... %
maleic acid
propan-2-ol isopropyl alcohol isopropanol
potassium hydroxide
phosphonic acid

SECTION 16: Other Information

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)



Revision Comments No Information available.
Revision Date 5/15/2015
Revision 1

Disclaimer

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