Product CT-1400M **Revision Date** 5/29/2015

Revision 1



Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name CT-1400M

Identifier Uses Cooling WaterTreatment.

Supplier Clear Water Technoogies, LLC

> 13560 Colombard Court Fontana, California 92337 Tel: 844.429.8324

Contact Person info@clearwatertech.com

24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 **Emergency Telephone**

INTERNATIONAL#: 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Appearance Clear, pale yellow liquid. Color Colorless to pale yellow Odor

Bland.

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 Potassium Hydroxide

GHS Classification

Eye contact

Physical and Chemical Hazards Not classified

Human Health Skin Irrit. 2 - H315, Eye Irrit. 2 - H319

Environment Not classified

This Product is Hazardous under the OSHA Hazard Communication Standard. **OSHA Regulatory Status**

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 if any discomfort continues. 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.

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

Eye contact

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 $15\ \text{minutes}$. Get

medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed

General Information As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER

induce swallowing in an unconscious person.

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 if any discomfort continues. 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.

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)

Flammability Limit - Lower (%)

Flammability Limit - Upper (%)

Flash point

No Information available
No Information available

Extinguishing Media Use fire-extinguishing media appropriate for surrounding materials. Water spray, foam, dry

Oxides of carbon, possibly toxic phosphines.

powder or carbon dioxide.

Hazardous combustion products Unusual Fire & Explosion Hazards Special Fire Fighting Procedures Protective equipment for fire-

fighters

Dried residue can thermally decompose, giving off irritating and possibly toxic fumes. Ventilate closed spaces before entering them. Water spray should be used to cool containers.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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. No Information available.

Environmental Precautions Spill Clean Up Methods Do not discharge into drains, water courses or onto the ground.

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 Product for external use - do not swallow. Avoid all contact with skin, eyes and clothes.

Handle in accordance with user instructions on label do not use contact lenses.

Usage Description Cooling WaterTreatment.

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.

Specific End Use(s) The identified uses for this product are detailed in Section 1

SECTION 8: Exposure Controls/Personal Protection

Protective Equipment





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

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 EquipmentNot 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.

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 Nitrile. Gloves should be replace immediately if sign of degradation is observed. Full contact: Material: butyl-rubber

 $\label{lem:minimum} \textit{Minimum layer thickness: 0.3} \\ \textit{mm Breakthrough time: 480} \\ \textit{minSplash contact: Nitrile rubber}$

Minimum layer thickness: 0.2mm Breakthrough time: 38min

Eye Protection Wear approved safety goggles. Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene Measures 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

AppearanceClear, pale yellow liquid.ColorColorless to pale yellow

Odor Bland.

Odor Threshold - Lower No Information available.

Odor Threshold - Upper No Information available.

pH-Value, Conc. Solution 2.3

Melting point 32 °F

Initial boiling point and boiling

range

212°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

Vapor Density (air=1) Not determined.

Relative density 1.063 68 °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 Not determined

SECTION 10: Stability and Reactivity

Reactivity There are no known reactivity hazards associated with this product.

Stability Stable under normal temperature conditions and recommended use.

Hazardous Polymerization Hazardous polymerization is not expected to occur under normal temperatures and

pressures..

Hazardous Decomposition Products Hazardous decomposition will result in the release of oxides of carbon, possibly toxic

phosphines.

Conditions to Avoid Avoid exposing to heat and contact with strong oxidizing substances.

Materials to Avoid Do not mix with other chemicals unless listed on directions. Keep away from strong oxidizing

materials and strong acids.

SECTION 11: ToxicologicalInformation

Toxicological Information No toxicological information for the overall finished product.

Acute Toxicity (Oral LD50)>5012 mg/kg RatAcute Toxicity (Dermal LD50)>1426 mg/kg RabbitAcute Toxicity (Inhalation LD50)Not determined.

Skin Corrosion/Irritation No Information available.

Respiratory SensitizationNo Information available.Skin SensitizationNo Information available.Reproductive Toxicity:No Information available.

Germ Cell Mutagenicity: Genotoxicity - In Vitro Genotoxicity - In Vivo

Carcinogenicity:

Carcinogenicity No Information available.

NTP - Carcinogenicity

OSHA - Carcinogenicity

The product and its components are not listed.

The product and its components are not listed.

IARC Carcinogenicity

The product and its components are not listed.

 $Specific\ Target\ Organ\ Toxicity\ \hbox{-}\ Single\ Exposure:$

STOT - Single Exposure No Information available.

Specific Target Organ Toxicity - Repeated Exposure:

STOT - Repeated Exposure No Information available.

Name	LD50 Oral	LD50 Dermal	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			
nitrilotrimethylenetris(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

Eco toxicity No Information available

No Information available

Acute Toxicity - Fish LC50 96 Hours >4200 ppm Onchorhynchus mykiss (Rainbow Trout)

Acute Toxicity - Aquatic LC50 48 Hours >4500 ppm Daphnia magna

Invertebrates

Acute Toxicity - Aquatic Plants EC50 72 Hours > 1900 ppm

Degradability No information available.

Bio accumulative Potential No Information available.

Mobility No Information available.

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

SECTION 13: Disposal Considerations

Waste Management Observe all local, national and international regulations.

Disposal Methods No specific disposal method required.

SECTION 14: Transport Information

UN No. (DOT/TDG) Not applicable.

UN No. (IMDG) Not applicable.

UN No. (ICAO) Not applicable.

DOR 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

$SARA Section 302 \, Extremely \, Hazardous \, Substances \, Tier \, II \, Threshold \, Planning \, Quantities \, Tier \, II \, Threshold \, Planning \, Quantities \, Tier \, II \, Threshold \, Planning \, Quantities \, Tier \, Tie$

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 ReleasePrevention

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 ... %

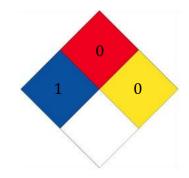
maleic acid

propan-2-ol isopropyl alcohol isopropanol

potassium hydroxide

SECTION 16: OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)



Revision Comments

Revision Date 5/29/2015

Revision

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.