Product CT-1600P

Revision Date 06/05/2015

Revision |



# Safety Data Sheet

### **SECTION 1: IDENTIFICATION**

Product Name CT-1600P

**Identifier Uses** Cooling Water Treatment.

**Supplier** Clear Water Technologies, LLC

13560 Colombard Court Fontana, California 92337 Tel: 844-429-8324

Contact Person <u>info@clearwatertech.com</u>

Emergency Telephone 24-HOUR EMERGENCY TELEPHONE: INFOTRAC: I-800-535-5053 INTERNATIONAL#: I-

352-323-3500

#### **SECTION 2: HAZARDS IDENTIFICATION**

Appearance Clear, dark amber liquid.
Color Clear, dark amber liquid.
Odor Musty aromatic.

Pictogram(s)



Signal Word Danger

Hazard Statements H314 Causes severe skin burns and eye damage

 $\label{precautionary Statements} P280 \, \text{Wear protective gloves/ protective clothing/eye protection.}$ 

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

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 sodium hydroxide

phosphonic acid

 $sodium\ 4 (or\ 5) - methyl-I\ H-benzotriazolide$ 

GHS Classification

Physical and Chemical Hazards Not classified
Human Health Skin Corr. 1A - H314
Environment Not classified

OSHA Regulatory Status This product is Hazardous under the OSHA Hazard communication Standard.

**Inhalation** Inhalation of vapors or fumes may be irritating to mucous membranes and respiratory tract.

Avoid contact.

**Ingestion** Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth,

esophagus and gastrointestinal tract, and possible burns. Do NOT ingest.

**Skin contact** Exposure to liquid product may cause moderate to severe irritation to skin, and possible

burns. Symptoms of exposure may include redness, itching, swelling or pain. Effects of

contact are typically an irritant dermatitis. Avoid contact.

Exposure to liquid product may cause severe irritation to eyes, and possibly burns or eye

damage. Symptoms of exposure may include redness, itching, swelling, tearing or pain.

Effects of contact may be delayed. Avoid contact.

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.

#### **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 and symptoms occur, 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.

Skincontact If this product contacts the skin, immediately flush the affected area with soap and 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 this 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** No information available

Inhalation Inhalation of vapors or fumes may be irritating to mucous membranes and respiratory tract.

Avoid contact.

Ingestion Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth,

esophagus and gastrointestinal tract, and possible burns. Do NOT ingest.

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contact are typically an irritant dermatitis. Avoid contact.

Eye contact Exposure to liquid product may cause severe irritation to eyes, and possibly burns or eye

damage. Symptoms of exposure may include redness, itching, swelling, tearing or pain.

Effects of contact may be delayed. Avoid contact.

**Routes of Exposure** No Information available.

Most important symptoms and effects, both acute and delayed

Notes to the Physician This product is severely irritating to eyes, skin and mucous membranes. Treat exposure

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 water, foam, dry chemical or carbon dioxide to extinguish fire.

**Hazardous combustion products** 

**Unusual Fire & Explosion Hazards** Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.

**Special Fire Fighting Procedures** 

Protective equipment for firefighters

Use water to cool containers exposed to a fire.

Fire fighters should wear full protective equipment, and have self-contained breathing

apparatus available.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Use proper personal protection (refer to Section 8).

**Environmental Precautions** Run off from fire control or dilution water may cause pollution. 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. 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 at an approved chemical waste reprocessing facility. Flush spill area with large amounts of water.

#### **SECTION 7: HANDLING AND STORAGE**

Handling Use proper personal protection when handling (refer to Section 8). Use under well-ventilated

conditions. Avoid contact with eyes, skin and clothing. 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 (	I5mins)	Notes
sodium hydroxide	OSHA		2mg/m3			

Ingredient Comments OSHA

**Process Conditions** Provide eyewash, quick drench.

Engineering Measures General mechanical ventilation is recommended for enclosed areas.

**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, dark amber liquid.
Color Clear, dark amber liquid.

Odor Musty aromatic.

Odor Threshold -Lower No Information available.

Odor Threshold - Upper No Information available.

pH-Value, Conc. Solution 13.0

Melting point 32.0 °F

Initial boiling point and boiling

range

212.0 °F

No Information available. **Flashpoint** 

**Evaporation rate** No Information available.

Flammability State No Information available.

FlammabilityLimit-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.

1.20 @ 68.0°F Relative density

**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.

No Information available. Viscosity

**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 strong oxidizing materials and strong acids.

**Stability** This product is stable at ambient temperatures and atmospheric pressures.

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

CT-1600P

Hazardous Decomposition Products Unknown.

Conditions to Avoid Avoid contact with strong oxidizing materials and strong acids.

Materials to Avoid Keep away from strong oxidizing materials and strong acids.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Toxicological Information** No toxicological information for the overall finished product.

>1818.00mg/kg Rat Acute Toxicity (Oral LD50) Acute Toxicity (Dermal LD50) >1090.00mg/kg Rabbit

Acute Toxicity (Inhalation LC50) >5000.00mg/l (vapors) Rabbit

Skin Corrosion/Irritation No Information available.

No Information available. Respiratory Sensitization Skin Sensitization No Information available. Reproductive Toxicity: No Information available. Germ Cell Mutagenicity:

**Genotoxicity - In Vitro** 

Genotoxicity - In Vivo

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**Carcinogenicity:** 

Carcinogenicity No Information available.

NTP - Carcinogenicity

OSHA - 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		I 350mg/kg Rabbit	
sodium chloride	3g/kg Rat	10g/kg Rabbit	42g/m3 Rat I Hours
sodium 4(or 5)-methyl-1H-benzotriazolide	920mg/kg		

# **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No Information available.

Acute Toxicity - Fish LC50 96 Hours >4000.00ppm Onchorhynchus mykiss (Rainbow Trout)

Acute Toxicity - LC50 48 Hours >3500.00ppm Daphnia magna

**Aquatic Invertebrates** 

Acute Toxicity - Aquatic Plants EC50 72 Hours > 4000.00ppm

**Degradability** No information available.

Bioaccumulative Potential No data available on bioaccumulation.

**Mobility** Completely soluble in water.

Results of PBT and vPvB Assessment The product does not contain any PBT or vPvB substances.

Other AdverseEffects None known.

Name	Acute I oxicity (Fish)	Acute Toxicity (Aquatic	Acute Toxicity (Aquatic
sodium hydroxide		EC50 100.00ppm Daphnia magna	
sodium 4(or 5)-methyl-1H-benzotriazolide	LC50 96 Hours 191.20mg/ILepomis macrochirus (Bluegill)LC50 96 Hours 23.70 Onchorhynchus mykiss (Rainbow Trout)	LC50 48 Hours 245.70mg/IDaphnia 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) 1760 - CORROSIVE LIQUID, (Sodium Hydroxide)

UN No. (IMDG) 1760 - CORROSIVE LIQUID, (Sodium Hydroxide)

UN No. (ICAO) 1760 - Corrosive liquid (Sodium Hydroxide)

**DOT Proper Shipping Name** 1760 - CORROSIVE LIQUID, (Sodium Hydroxide)

TDG Proper Shipping Name 1760 - CORROSIVE LIQUID, (Sodium Hydroxide)

**DOT Hazard Class** 8

**DOT Hazard Label** Class 8 - Corrosive

TDG Class 8

TDG Label(s) 8

IMDG Class 8

ICAO Class 8

**Transport Labels** 



DOT PackGroup

IMDG Pack Group

Air Pack Group ||

**EMS** F-A, S-B

Environmentally Hazardous Substance/Marine Pollutant

Nο

### **SECTION 15: REGULATORY INFORMATION**

#### **US Federal Regulations**

#### SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

The Following ingredients are listed None Listed.

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

The Following ingredients are listed sodium hydroxide

#### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

The Following ingredients are listed None Listed.

SARA 313 Emission Reporting

The Following ingredients are listed None Listed.

**CAA Accidental Release Prevention** 

The Following ingredients are listed None Listed.

**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 sodium hydroxide

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

The Following ingredients are listed None Listed.

#### Massachusetts "Right To Know" List

The Following ingredients are listed sodium hydroxide

Rhode Island "Right To Know" List

The Following ingredients are listed sodium hydroxide

Minnesota "Right To Know" List

The Following ingredients are listed sodium hydroxide

New Jersey "Right To Know" List

The Following ingredients are listed sodium hydroxide phosphonic acid

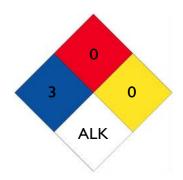
Pennsylvania "Right To Know" List

The Following ingredients are listed sodium hydroxide

phosphonic acid

# **SECTION 16: OTHER INFORMATION**

# NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



#### HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

Health	3
Flammability	0
Physical Hazard	0
Personal Protection	С

**Revision Comments** 

Revision Date 06/05/2015 Revision I

#### Disclaimer

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