

Product ST-5310
 Revision Date 06/18/2015
 Revision I



Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name	ST-5310
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	Clear pale yellow liquid.
Color	Clear pale yellow liquid.
Odor	Mild.

Pictogram(s)



Signal

Word

Warning

Hazard Statements

H400 Very toxic to aquatic life.

Precautionary Statements

P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains

Polixetonium chloride

GHS Classification

Physical and Chemical Hazards
 classified Human Health
 classified
 Environment

Not
 Not

Aquatic Acute 1 - H400

OSHA Regulatory Status

This product is Hazardous under the OSHA Hazard communication Standard.

Inhalation

Ingestion

Skin contact

Eye contact

Routes of Exposure

Exposure to product mists or vapors may cause slight irritation to the respiratory system.
 Ingestion is not believed to be a likely route of exposure.
 Exposure to liquid product may cause slight irritation to skin. Symptoms of exposure may include redness, scaling, itchiness or (occasionally) blistering.
 Exposure to liquid product may cause slight irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
 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. If the exposed person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
Ingestion	If this product is ingested, rinse with copious amounts of water or milk 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. Irrigate the esophagus and dilute stomach contents by slowly give one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol-related products.
Skin contact	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	Exposure to product mists or vapors may cause slight irritation to the respiratory system.
Ingestion	Ingestion is not believed to be a likely route of exposure.
Skin contact	Exposure to liquid product may cause slight irritation to skin. Symptoms of exposure may include redness, scaling, itchiness or (occasionally) blistering.
Eye contact	Exposure to liquid product may cause slight irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
Routes of Exposure	No Information available.

Most important symptoms and effects, both acute and delayed

Notes To The Physician	Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
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SECTION 5: Firefighting Measures

Auto Ignition Temperature (°C)	No Information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	Not known.
Flashpoint	212.0 °F
Extinguishing Media	Use water, foam, dry chemical or carbon dioxide to extinguish fire.
Hazardous combustion products	Combustion may lead to the release of carbon monoxide.
Unusual Fire & Explosion Hazards	Irritating vapors or fumes may be emitted during a fire.
Special Fire Fighting Procedures	Use water to cool containers exposed to a fire.
Protective equipment for fire-fighters	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). Use caution as product dries to form glass film which can cut easily. Spilled material is very slippery. Product can etch glass if not properly removed.
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. Squeegee and collect the spillage or vacuum the spillage. Place collected spillage into containers for reuse or disposal according to local, state or federal regulations at an approved chemical waste reprocessing facility. Recover product residue using clay, soil or absorbent. Place into chemical waste container for disposal according to local, state or federal regulations.

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. The recommended storage temperature is above 32°F, preferably at room temperature (70°F).
Specific End Use(s)	The identified uses are in section I of this Safety Data Sheet.

SECTION 8: Exposure Controls/Personal Protection**Protective Equipment****Ingredient Comments**

No information for the control parameters

Process Conditions
Engineering Measures
Respiratory Equipment

Keep container tightly sealed when not in use. Provide eyewash, quick drench. General mechanical ventilation is recommended for enclosed areas. 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
Eye Protection

Use rubber or plastic gloves to minimize skin contact. 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, pale yellow liquid.
Color	Clear, pale yellow liquid.
Odor	Mild.
Odor Threshold - Lower	No Information available.
Odor Threshold - Upper	No Information available.
pH-Value, Conc. Solution	7.0
Melting point	3.2 °F
Initial boiling point and boiling range	212.0 °F
Flashpoint	212.0 °F
Evaporation rate	No Information available.
Flammability State	No Information available.
Flammability Limit - Lower(%)	No Information available.

Flammability Limit - Upper(%)	Not known.
Vapor pressure	No Information available.
Vapor Density (air=1)	No Information available.
Relative density	1.15 @ 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	Reactions may occur with anionic polymers.
Stability	This product is stable at ambient temperatures and atmospheric pressures.
Hazardous Polymerisation	Hazardous polymerization is not expected to occur under normal temperatures and pressures.
Hazardous Decomposition Products	Carbon monoxide may be released upon burning.
Conditions to Avoid	Avoid contact with anionic polymers.
Materials to Avoid	Keep away from anionic polymers.

SECTION 11: Toxicological Information

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	1951.00mg/kg Rat
Acute Toxicity (Dermal LD50)	>2000.00mg/kg Rabbit
Acute Toxicity (Inhalation LC50)	No Information available.
Skin Corrosion/Irritation	No Information available.
Respiratory Sensitisation	No Information available.
Skin Sensitisation	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.

SECTION 12: Ecological Information

Ecotoxicity	No Information available.
Acute Toxicity - Fish	LC50 96 Hours 0.21 ppm <i>Lepomis macrochirus</i> (Bluegill)
Acute Toxicity - Aquatic Invertebrates	LC50 48 Hours 0.37 ppm
Acute Toxicity - Aquatic Plants	No Information available.
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 Adverse Effects	None known.

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)	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 None Listed.

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

The Following ingredients are listed None Listed.

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 None Listed.

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

The Following ingredients are listed None Listed.

Massachusetts "Right To Know" List

The Following ingredients are listed None Listed.

Rhode Island "Right To Know" List

The Following ingredients are listed None Listed.

Minnesota "Right To Know" List

The Following ingredients are listed None Listed.

New Jersey "Right To Know" List

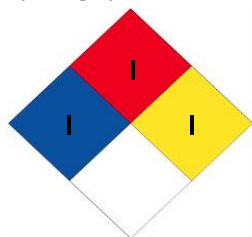
The Following ingredients are listed None Listed.

Pennsylvania "Right To Know" List

The Following ingredients are listed None Listed.

SECTION 16: Other Information

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

Health	1
Flammability	1
Physical	1
Personal Protection	C

Revision Comments

Revision Date

06/18/2015

Revision

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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.