

Product ST-5500  
 Revision Date 5/15/2015  
 Revision I



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

Product Name	ST-5500
Identifier Uses	Cleaner
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, amber liquid.
Odor	Sweet.

Pictogram(s)



Signal

Word	Danger
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Hazard Statements	H314 Causes severe skin burns and eye damage
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Precautionary Statements	P280 Wear protective gloves/ protective clothing/eye protection/face protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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
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Contains	potassium hydroxide disodium metasilicate
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GHS Classification

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

OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
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Inhalation	There may be shortness of breath with a burning sensation in the throat.
Ingestion	Do not ingest. Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract, and possible burns.
Skin contact	Corrosive! Can cause redness, pain, and severe skin burns.
Eye contact	Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious eye damage.
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.
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**SECTION 4: FIRST AID MEASURES**


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Description of first aid measures

<b>General Information</b>	General first aid, rest, warmth and fresh air.
<b>Inhalation</b>	Remove victim immediately from source of exposure. Keep the affected person warm and at rest. Get prompt medical attention.
<b>Ingestion</b>	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention immediately!
<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>	Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse. Continue to rinse for at least 15 minutes.

Most important symptoms and effects, both acute and delayed

<b>General Information</b>	The severity of the symptoms described will vary dependent of the concentration and the length of exposure.
<b>Inhalation</b>	There may be shortness of breath with a burning sensation in the throat.
<b>Ingestion</b>	Do not ingest. Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract, and possible burns.
<b>Skin contact</b>	Corrosive! Can cause redness, pain, and severe skin burns.
<b>Eye contact</b>	Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious eye damage.
<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**


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<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>Flashpoint</b>	No Information available.
<b>Extinguishing Media</b>	Use fire-extinguishing media appropriate for surrounding materials. Water, foam, dry chemical or carbon dioxide.
<b>Hazardous combustion products</b>	No hazardous decomposition products.
<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>	Use water to cool containers exposed to a fire. Avoid breathing fire vapors.
<b>Protective equipment for fire-fighters</b>	Wear full protective clothing and self-contained breathing apparatus, suitable gloves and boots.

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**SECTION 6: Accidental Release Measures**


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<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.
<b>Environmental Precautions</b>	Keep out of drains, municipal sewers, open bodies of water and water course.
<b>Spill Clean Up Methods</b>	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.

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**SECTION 7: Handling and Storage**


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<b>Handling</b>	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.
<b>Usage Description</b>	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.
<b>Storage Precautions</b>	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). Under ideal storage conditions, the shelf life is one (1) year. It is recommended that product be retested if stored for more than six (6) months. Keep away from oxidizing materials. Keep in a tightly closed container and store it in a cool, dry, ventilated area. Protect container against physical damage, direct sunlight, and freezing.
<b>Specific End Use(s)</b>	The identified uses are in section 1 of this Safety Data Sheet.

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**SECTION 8: Exposure Controls/Personal Protection**


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**Protective Equipment**

<b>Ingredient Comments</b>	No information for the control parameters
<b>Process Conditions</b>	Provide eyewash, quick drench.
<b>Engineering Measures</b>	Provide adequate ventilation.
<b>Respiratory Equipment</b>	Use of respirator protection is not generally required.
<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 Rubber. Use rubber or plastic gloves to minimize skin contact.
<b>Eye Protection</b>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Hygiene Measures</b>	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.

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**SECTION 9: Physical and Chemical Properties**


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**Information on Basic Physical and Chemical Properties**

<b>Appearance</b>	Liquid.
<b>Color</b>	Clear, amber liquid.
<b>Odor</b>	Sweet.
<b>Odor Threshold - Lower</b>	No Information available.
<b>Odor Threshold - Upper</b>	No Information available.
<b>pH-Value, Conc. Solution</b>	13.7
<b>Melting point</b>	31.8 °F
<b>Initial boiling point and boiling range</b>	212.0 °F
<b>Flashpoint</b>	No Information available.
<b>Evaporation rate</b>	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 0.0
Vapor Density (air=1)	No Information available.
Relative density	No Information available
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	Not known.
Volatile Organic Compound	No Information available.

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## SECTION 10: Stability and Reactivity

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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 pressures.
Hazardous Decomposition Products	None under normal conditions.
Conditions to Avoid	Avoid extreme temperatures and storing in large quantities and for long periods of time.
Materials to Avoid	Keep away from strong oxidizing materials and strong acids.

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## SECTION 11: Toxicological Information

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Toxicological Information	No Information available.
Acute Toxicity (Oral LD50)	>4037.00mg/kg Rat
Acute Toxicity (Dermal LD50)	>1586.00mg/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 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
potassium hydroxide	284mg/kg Rat		

## SECTION 12: Ecological Information

Eco toxicity No Information available.

Acute Toxicity - Fish LC50 96 Hours >195.00ppm Onchorhynchus mykiss (Rainbow Trout)  
Acute Toxicity - Aquatic Invertebrates LC50 96 Hours >1980.00ppm Daphnia magna

Acute Toxicity - Aquatic Plants No Information available.

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 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 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) 1760 - CORROSIVE LIQUID, (Potassium Hydroxide)

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

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

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

TDG Proper Shipping Name 1760 - CORROSIVE LIQUID, (Potassium 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 Pack Group	II
IMDG Pack Group	II
Air Pack Group	II
EMS	F-A, S-B
Environmentally Hazardous Substance/Marine Pollutant	No

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## SECTION 15: Regulatory Information

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### US Federal Regulations

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

The Following ingredients are listed

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

The Following ingredients are listed      potassium hydroxide

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

The Following ingredients are listed

#### **SARA 313 Emission Reporting**

The Following ingredients are listed

#### **CAA Accidental Release Prevention**

The Following ingredients are listed

#### **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

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

The Following ingredients are listed

#### **Massachusetts "Right To Know" List**

The Following ingredients are listed      potassium hydroxide

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

The Following ingredients are listed      potassium hydroxide

#### **Minnesota "Right To Know" List**

The Following ingredients are listed      potassium hydroxide  
Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated  
octan-1-ol

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

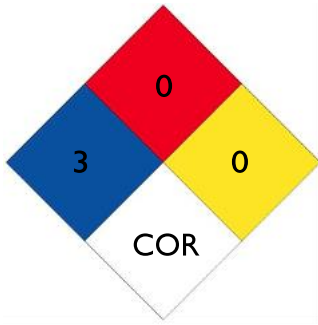
The Following ingredients are listed      potassium hydroxide

#### **Pennsylvania "Right To Know" List**

The Following ingredients are listed      potassium hydroxide  
decan-1-ol  
octan-1-ol

**SECTION 16: Other Information**

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**



**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

Health	3
Flammability	0
Physical Hazard	0
Personal Protection	C

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

**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.