

Product ST-5100  
 Revision Date 11/02/2016  
 Revision 2



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	ST-5100
<b>Identifier Uses</b>	Neutralizer
<b>Supplier</b>	Clear Water Technologies 13560 Colombard Court Fontana, California 92337 Tel: 844.429.8324
<b>Website</b>	info@cheminc.com
<b>Emergency Telephone</b>	24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500

### SECTION 2: HAZARDS IDENTIFICATION

<b>Appearance</b>	Solid.
<b>Color</b>	Granular white.
<b>Odor</b>	Odorless.
<b>Pictogram(s)</b>	
<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	H319 Causes serious eye irritation.
<b>Precautionary Statements</b>	P264 Wash hands thoroughly after handling. 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.
<b>Contains</b>	Not Applicable
<b>GHS Classification</b>	
<b>Physical and Chemical Hazards</b>	Not classified
<b>Human Health</b>	Eye Irrit.2A - H319
<b>Environment</b>	Not classified
<b>OSHA Regulatory Status</b>	This product is Hazardous under the OSHA Hazard communication Standard.
<b>Inhalation</b>	Exposure to excessive levels of product dust may cause irritation to mucous membranes and upper respiratory tract. Symptoms of exposure may include nasal irritation, coughing and wheezing.
<b>Ingestion</b>	Ingestion is not expected to be a likely route of exposure.
<b>Skin contact</b>	Exposure to product is generally non-irritating to intact skin. However, product may cause irritation where skin has been damaged or after long exposures when moisture is present. Symptoms of exposure may include red, dry and cracked skin.
<b>Eye contact</b>	Exposure to product may cause irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
<b>Routes of Exposure</b>	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, rinse the mouth with water. Give the exposed person one (1) to two (2) glasses 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.

**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 excessive levels of product dust may cause irritation to mucous membranes and upper respiratory tract. Symptoms of exposure may include nasal irritation, coughing and wheezing.

**Ingestion**

Ingestion is not expected to be a likely route of exposure.

**Skin contact**

Exposure to product is generally non-irritating to intact skin. However, product may cause irritation where skin has been damaged or after long exposures when moisture is present. Symptoms of exposure may include red, dry and cracked skin.

**Eye contact**

Exposure to product may cause 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**

Treat Symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****Auto Ignition Temperature (°C)**

No Information available.

**Flammability Limit-Lower (%)**

No Information available.

**Flammability Limit-Upper (%)**

No Information available.

**Flash point**

No Information available.

**Extinguishing Media**

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

**Hazardous combustion products**

Fumes of sodium oxide.

**Unusual Fire & Explosion Hazards**

Irritating smoke 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).

**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. This product, if spilled, can be recovered and re-used if contamination does not present a problem. Vacuum or sweep up material. If the spill product is unusable due to contamination,

dispose according to local, state or federal regulations.

## SECTION 7: HANDLING AND STORAGE

<b>Handling</b>	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. When mixing, slowly add to water to minimize heat generation and splattering.
<b>Usage Description</b>	Use only according to directions.
<b>Storage Precautions</b>	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 container tightly closed. Do not store in heat or direct sunlight. Keep in dry, cool, and well ventilated place. The recommended storage temperature is 34°F to 129 °F, preferably at room temperature 70 °F
<b>Specific End Use(s)</b>	The identified uses are in section 1 of this Safety Data Sheet.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Protective Equipment



### Ingredient Comments

No occupational exposure limits noted for the ingredients(s).

### 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

<b>Appearance</b>	Solid.
<b>Color</b>	Granular white.
<b>Odor</b>	Odorless.
<b>Odor Threshold -Lower</b>	No Information available.
<b>Odor Threshold - Upper</b>	No Information available.
<b>pH-Value, Conc. Solution</b>	11.37
<b>Melting point</b>	1564.0 °F
<b>Initial boiling point and boiling range</b>	No Information available.
<b>Flashpoint</b>	No Information available.

<b>Evaporation rate</b>	No Information available.
<b>Flammability State</b>	No Information available.
<b>Flammability Limit-Lower (%)</b>	No Information available.
<b>Flammability Limit-Upper (%)</b>	No Information available.
<b>Vapor pressure</b>	No Information available.
<b>Vapor Density (air=1)</b>	No Information available.
<b>Relative density</b>	20.93
<b>Bulk Density</b>	No Information available.
<b>Solubility</b>	33.2% maximum.
<b>Decomposition temperature</b>	No Information available.
<b>Partition coefficient; n-octanol/water</b>	No Information available.
<b>Auto Ignition Temperature (°C)</b>	No Information available.
<b>Viscosity</b>	No Information available.
<b>Explosive Properties</b>	No information available.
<b>Oxidizing Properties</b>	No Information available.
<b>Molecular Weight</b>	No Information available.
<b>Volatile Organic Compound</b>	No Information available.

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## SECTION 10: STABILITY AND REACTIVITY

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<b>Reactivity</b>	Reacts with acids with release of large volumes of carbon dioxide gas and heat. Also avoid aluminum powder, fluorine, molten lithium.
<b>Stability</b>	This product is stable at ambient temperatures and atmospheric pressures.
<b>Hazardous Polymerization</b>	Hazardous polymerization is not expected to occur under normal temperatures and pressures.
<b>Hazardous Decomposition Products</b>	Fumes of sodium oxide.
<b>Conditions to Avoid</b>	Avoid contact with aluminum powder, fluorine, molten lithium.
<b>Materials to Avoid</b>	Keep away from aluminum powder, fluorine, molten lithium.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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<b>Toxicological Information</b>	No Information available.
<b>Acute Toxicity (Oral LD50)</b>	4090.00mg/kg Rat
<b>Acute Toxicity (Dermal LD50)</b>	No Information available.
<b>Acute Toxicity (Inhalation LC50)</b>	2.30mg/l (vapors) Rat
<b>Skin Corrosion/Irritation</b>	No Information available.
<b>Respiratory Sensitization</b>	No Information available.
<b>Skin Sensitization</b>	No Information available.
<b>Reproductive Toxicity:</b>	No Information available.
<b>Germ Cell Mutagenicity:</b>	No Information available.
<b>Genotoxicity - In Vitro</b>	No Information available.
<b>Genotoxicity - In Vivo</b>	No Information available.

<b>Carcinogenicity:</b>	No Information available.
<b>Carcinogenicity</b>	No Information available.
<b>NTP - Carcinogenicity</b>	The product and its components are not listed.
<b>OSHA - Carcinogenicity</b>	The product and its components are not listed.
<b>IARC Carcinogenicity</b>	The product and its components are not listed.

<b>Specific Target Organ Toxicity - Single Exposure:</b>	
<b>STOT - Single Exposure</b>	No information required.
<b>Specific Target Organ Toxicity - Repeated Exposure:</b>	
<b>STOT - Repeated Exposure</b>	No Information available.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
sodium carbonate	4090mg/kg Rat		2.3mg/l (vapors) Rat

## SECTION 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No Information available.
<b>Acute Toxicity - Fish</b>	LC50 96 Hours 320.00ppm Lepomis macrochirus (Bluegill)
<b>Acute Toxicity - Aquatic Invertebrates</b>	LC50 96 Hours 565.00ppm Daphnia magna
<b>Acute Toxicity - Aquatic Plants</b>	No Information available.
<b>Degradability</b>	No information available.
<b>Bioaccumulative Potential</b>	No Information available.
<b>Mobility</b>	No information available.
<b>Results of PBT and vPvB Assessment</b>	No information available.
<b>Other Adverse Effects</b>	No information available.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic Invertebrates)	Acute Toxicity (Aquatic)
sodium carbonate	LC50 96 Hours <320.00mg/l Lepomis macrochirus (Bluegill)	LC50 96 Hours <565.00mg/l Daphnia magna	

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste Management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Disposal Methods</b>	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

<b>UN No. (DOT/TDG)</b>	Not applicable.
<b>UN No. (IMDG)</b>	Not applicable.
<b>UN No. (ICAO)</b>	Not applicable.
<b>DOT Proper Shipping Name</b>	Not applicable.
<b>TDG Proper Shipping Name</b>	Not applicable.
<b>DOT Hazard Class</b>	Not applicable.

<b>DOT Hazard Label</b>	Not applicable.
<b>TDG Class</b>	Not applicable.
<b>TDG Label(s)</b>	Not applicable.
<b>IMDG Class</b>	Not applicable.
<b>ICAO Class</b>	Not applicable.
<b>Transport Labels</b>	
<b>DOT Pack Group</b>	Not applicable.
<b>IMDG Pack Group</b>	Not applicable.
<b>Air Pack Group</b>	Not applicable.
<b>EMS</b>	Not applicable.
<b>Environmentally Hazardous Substance/Marine Pollutant</b>	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      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**

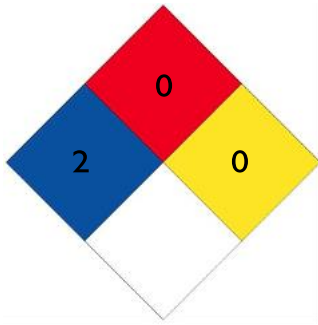
The Following ingredients are listed      None Listed.

#### **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	2
Flammability	0
Physical Hazard	0
Personal Protection	B

**Revision Comments**

Revision Date                      11/02/2016  
 Revision                              2

**Disclaimer**

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