

Product LT-2500  
 Revision Date 5/15/2015  
 Revision 1



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	<b>LT-2500</b>
<b>Identifier Uses</b>	Closed Loop Treatment
<b>Supplier</b>	Clear Water Technologies, LLC 13560 Colombar Court Fontana, California 92337 Tel: 844-429-8324
<b>Contact Person</b>	info@clearwatertech.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>	Liquid.
<b>Color</b>	Clear, faint yellow liquid.
<b>Odor</b>	Sweet.

**Pictogram(s)**



<b>Signal Word</b>	Danger
<b>Hazard Statements</b>	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage

<b>Precautionary Statements</b>	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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<b>Contains</b>	sodium hydroxide sodium nitrite sodium 4(or 5)-methyl-1H-benzotriazolide
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<b>GHS Classification</b>	
<b>Physical and Chemical Hazards</b>	Not classified
<b>Human Health</b>	Acute Tox 4 - H302, Skin Corr. 1C - H314
<b>Environment</b>	Not classified

<b>OSHA Regulatory Status</b>	This product is Hazardous under the OSHA Hazard communication Standard.
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<b>Inhalation</b>	No specific symptoms noted, inhalation is not believed to be a likely route of exposure.
<b>Ingestion</b>	May cause chemical burns in mouth and throat. Harmful if swallowed.
<b>Skin contact</b>	Corrosive! Can cause redness, pain, and severe skin burns.
<b>Eye contact</b>	Causes severe eye burns.
<b>Routes of Exposure</b>	Unknown

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Composition Comments</b>	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**Description of first aid measures

<b>General Information</b>	General first aid, rest, warmth and fresh air.
<b>Inhalation</b>	If this product is inhaled, move the exposed person to fresh air promptly. Get medical attention if any discomfort continues.
<b>Ingestion</b>	If the product is ingested, seek 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>	If the 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.

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>	No specific symptoms noted, inhalation is not believed to be a likely route of exposure.
<b>Ingestion</b>	May cause chemical burns in mouth and throat. Harmful if swallowed.
<b>Skin contact</b>	Corrosive! Can cause redness, pain, and severe skin burns.
<b>Eye contact</b>	Causes severe eye burns.
<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**

<b>Auto Ignition Temperature (°C)</b>	Not known.
<b>Flammability Limit - Lower (%)</b>	No Information available.
<b>Flammability Limit - Upper (%)</b>	No Information available.
<b>Flash point</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>	Oxides of nitrogen. May leave a caustic residue.
<b>Unusual Fire &amp; Explosion Hazards</b>	Dried residue can stimulate the combustion of organic materials.
<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.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<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. <b>DO NOT TOUCH SPILLED MATERIAL!</b> Wash thoroughly after dealing with a spillage.

**SECTION 7: HANDLING AND STORAGE**

<b>Handling</b>	Use proper personal protection when handling. Provide good ventilation. Avoid contact with
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<b>Usage Description</b>	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>Storage Precautions</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>Specific End Use(s)</b>	The identified uses are in section I of this Safety Data Sheet.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Protective Equipment



Component	STD	TWA (8 Hrs.)		STEL (15mins)		Notes
sodium hydroxide	OSHA		2mg/m3			

### Ingredient Comments

OSHA

### 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 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

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.

### Eye Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### 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>	Liquid.
<b>Color</b>	Clear, faint yellow 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>	12.7
<b>Melting point</b>	32.0 °F
<b>Initial boiling point and boiling</b>	212.0 °F

range

<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>	23.8 mm Hg 0.0
<b>Vapor Density (air=1)</b>	Not determined.
<b>Relative density</b>	1.13 @ 68.0 °F
<b>Bulk Density</b>	No Information available.
<b>Solubility</b>	Completely soluble in water.
<b>Decomposition temperature</b>	No Information available.
<b>Partition coefficient; n-octanol/water</b>	No Information available.
<b>Auto Ignition Temperature (°C)</b>	Not known.
<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>	Strong acids, strong reducing agents, ammonia salts, amines, phthalic acid and cyanides.
<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>	Oxides of nitrogen. May leave a caustic residue.
<b>Conditions to Avoid</b>	Avoid extreme temperatures and storing in large quantities and for long periods of time.
<b>Materials to Avoid</b>	Do not mix with other chemicals unless listed on directions.

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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>	>1270.00mg/kg Rat
<b>Acute Toxicity (Dermal LD50)</b>	>589.00mg/kg Rabbit
<b>Acute Toxicity (Inhalation LC50)</b>	Not determined.
<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>	

**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	LC50 Inhalation
sodium nitrite	157.9mg/kg Rat 175mg/kg Mouse 186mg/kg Rabbit 85mg/kg Rat		5.5mg/l (vapors) Rat 4 Hours
sodium 4(or 5)-methyl-1H-benzotriazolide	920mg/kg		

**SECTION 12: ECOLOGICAL INFORMATION****Eco toxicity**

No Information available.

**Acute Toxicity - Fish**

LC50 96 Hours &gt;7600.00ppm Onchorhynchus mykiss (Rainbow Trout)

**Acute Toxicity - Aquatic Invertebrates**

LC50 48 Hours &gt;945.00ppm Daphnia magna

**Acute Toxicity - Aquatic Plants**

EC50 72 Hours &gt; 185.00ppm

**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.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic Invertebrates)	Acute Toxicity (Aquatic Invertebrates)
sodium nitrite	LC50 96 Hours 0.13mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours 100.00mg/l Daphnia magna	
sodium 4(or 5)-methyl-1H-benzotriazolide	LC50 96 Hours 191.20mg/l Lepomis macrochirus (Bluegill) LC50 96 Hours 23.70 Onchorhynchus mykiss (Rainbow Trout)	LC50 48 Hours 245.70mg/l Daphnia 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**

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)**

3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (SODIUM NITRITE SOLUTION)

<b>UN No. (IMDG)</b>	3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (Sodium Nitrite Solution)
<b>UN No. (ICAO)</b>	3266 - Corrosive liquid, basic, inorganic (Sodium Nitrite Solution)
<b>DOT Proper Shipping Name</b>	3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (SODIUM NITRITE SOLUTION)
<b>TDG Proper Shipping Name</b>	3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (SODIUM NITRITE SOLUTION)
<b>DOT Hazard Class</b>	8
<b>DOT Hazard Label</b>	Class 8 - Corrosive
<b>TDG Class</b>	8
<b>TDG Label(s)</b>	8
<b>IMDG Class</b>	8
<b>ICAO Class</b>	8
<b>Transport Labels</b>	
<b>DOT Pack Group</b>	II
<b>IMDG Pack Group</b>	II
<b>Air Pack Group</b>	II
<b>EMS</b>	F-A, S-B
<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

#### **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

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

The Following ingredients are listed

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

The Following ingredients are listed      sodium nitrite

#### **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      sodium hydroxide

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

