

Product LT-2400P  
 Revision Date 08/25/2016  
 Revision 1



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	<b>LT-2400P</b>
<b>Identifier Uses</b>	Closed Loop Treatment.
<b>Supplier</b>	Clear Water Technologies, LLC 13560 Colombard Court Fontana, California 92337 Tel: 844-429-8324
<b>Contact Person</b>	<a href="mailto:info@clearwatertech.com">info@clearwatertech.com</a>
<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, pale yellow liquid.
<b>Odor</b>	Odorless.

**Pictogram(s)**



**Signal Word**

Danger

**Hazard Statements**

H314 Causes severe skin burns and eye damage  
 H361 Suspected of damaging fertility or the unborn child [\*].  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P310 Immediately call a POISON CENTER or doctor/physician

**Contains**

sodium hydroxide  
 sodium 4(or 5)-methyl-1H-benzotriazolide  
 BORIC ACID (HBO<sub>2</sub>), SODIUM SALT, TETRAHYDRATE SODIUM METABORATE  
 TETRAHYDRATE sodium oxido(oxo)borane

**GHS Classification**

**Physical and Chemical Hazards**  
**Human Health**  
**Environment**

Not classified  
 Skin Corr. 1B - H314, Repr. 2 - H361,  
 Aquatic Chronic 3 - H412

**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,

<b>Skincontact</b>	esophagus and gastrointestinal tract, and possible burns. Do NOT ingest.
<b>Eye contact</b>	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. Avoid contact. Exposure to liquid product may cause severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, swelling, tearing or pain. Avoid contact.
<b>Routes of Exposure</b>	No Information available.

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### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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<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

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#### 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 and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
<b>Ingestion</b>	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.
<b>Skincontact</b>	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.
<b>Eye contact</b>	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

<b>General Information</b>	No information available
<b>Inhalation</b>	Inhalation of vapors or fumes may be irritating to mucous membranes and respiratory tract. Avoid contact.
<b>Ingestion</b>	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.
<b>Skincontact</b>	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. Avoid contact.
<b>Eye contact</b>	Exposure to liquid product may cause severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, swelling, tearing or pain. Avoid contact.
<b>Routes of Exposure</b>	No Information available.

#### 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 water, foam, dry chemical or carbon dioxide to extinguish fire.
<b>Hazardous combustion products</b>	Unknown.
<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.
<b>Protective equipment for fire-fighters</b>	Fire fighters should wear full protective equipment, and have self-contained breathing apparatus available.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Use proper personal protection (refer to Section 8).
<b>Environmental Precautions</b>	Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.
<b>Spill Clean Up Methods</b>	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. Soak up spills with sand or other absorbent, squeegee and collect or vacuum the spillage. Place into containers for reuse or disposal. Dispose 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**

<b>Handling</b>	Use proper personal protection when handling (refer to Section 8).
<b>Usage Description</b>	Use only according to directions.
<b>Storage Precautions</b>	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 the recommended storage temperature is above 32°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**

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

<b>Ingredient Comments</b>	OSHA
<b>Process Conditions</b>	Keep container tightly sealed when not in use. Provide eyewash, quick drench.
<b>Engineering Measures</b>	General mechanical ventilation is recommended for enclosed areas.
<b>Respiratory Equipment</b>	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.
<b>Hand Protection</b>	Use rubber or plastic gloves to minimize skin contact.
<b>Eye Protection</b>	To avoid contact with eyes, use chemical splash goggles and a face shield. Eye wash station should be available in the work area.
<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.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Information on Basic Physical and Chemical Properties**

<b>Appearance</b>	Liquid.
<b>Color</b>	Clear, pale yellow liquid.
<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>	12.3
<b>Melting point</b>	32.0 °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.
<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>	23.80 mm Hg 0.00
<b>Vapor Density (air=1)</b>	No Information available.
<b>Relative density</b>	1.22 @ 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>	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>	Reactions may occur with strong oxidizing materials and strong acids.
<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>	Unknown.
<b>Conditions to Avoid</b>	Avoid contact with strong oxidizing materials and strong acids.
<b>Materials to Avoid</b>	Keep away from strong oxidizing materials and strong acids.

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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>	>1642.00mg/kg Rat
<b>Acute Toxicity (Dermal LD50)</b>	>791.00mg/kg Rabbit
<b>Acute Toxicity (Inhalation LC50)</b>	No Information available.
<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>	
<b>Genotoxicity - In Vitro</b>	
<b>Genotoxicity - In Vivo</b>	
<b>Carcinogenicity:</b>	
<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 available.
<b>Specific Target Organ Toxicity - Repeated Exposure:</b>	
<b>STOT - Repeated Exposure</b>	No Information available.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
sodium hydroxide		1350mg/kg Rabbit	
sodium chloride	3g/kg Rat	10g/kg Rabbit	42g/m3 Rat 1 Hours
sodium 4(or 5)-methyl-1H-benzotriazolide	920mg/kg		
BORIC ACID (HBO <sub>2</sub> ), SODIUM SALT, TETRAHYDRATE SODIUM METABORATE TETRAHYDRATE sodium oxido(oxo)borane	2330mg/kg Rat		

## SECTION 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No Information available.
<b>Acute Toxicity - Fish</b>	LC50 96 Hours >1380.00ppm Onchorhynchus mykiss (Rainbow Trout)
<b>Acute Toxicity - Aquatic Invertebrates</b>	LC50 48 Hours >1260.00ppm Daphnia magna
<b>Acute Toxicity - Aquatic Plants</b>	EC50 72 Hours >225.00ppm
<b>Degradability</b>	No information available.
<b>Bioaccumulative Potential</b>	
<b>Mobility</b>	Completely soluble in water.
<b>Results of PBT and vPvB Assessment</b>	The product does not contain any PBT or vPvB substances.
<b>Other Adverse Effects</b>	None known.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic Invertebrates)	Acute Toxicity (Aquatic)
sodium hydroxide		EC50 100.00ppm 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

<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>	1760 - CORROSIVE LIQUID, (Sodium Hydroxide)
<b>UN No. (IMDG)</b>	1760 - CORROSIVE LIQUID, (Sodium Hydroxide)
<b>UN No. (ICAO)</b>	1760 - Corrosive liquid (Sodium Hydroxide)
<b>DOT Proper Shipping Name</b>	1760 - CORROSIVE LIQUID, (Sodium Hydroxide)
<b>TDG Proper Shipping Name</b>	1760 - CORROSIVE LIQUID, (Sodium Hydroxide)
<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

**Transport Labels**

<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>	Yes

**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      sodium hydroxide

**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**

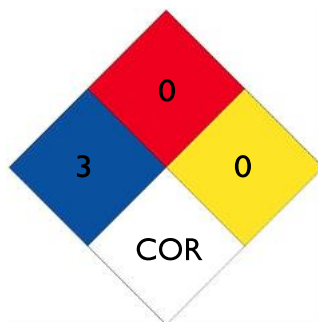
The Following ingredients are listed sodium hydroxide

**Pennsylvania "Right To Know" List**

The Following ingredients are listed sodium hydroxide

**SECTION 16: OTHER INFORMATION**

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**



**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

Health	3
Flammability	0
Physical Hazard	0
Personal Protection	D

**Revision Comments**

**Revision Date** 07/09/2015  
**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.