

Product LT-2510
 Revision Date 06/05/2015
 Revision 1




Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name	LT-2510
Identifier Uses	Closed Loop Treatment.
Supplier	Clear Water Technologies, LLC 13560 Colombar 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	Colorless to Pale Amber Liquid.
Color	Colorless to Pale Amber Liquid.
Odor	Slight.
Pictogram(s)	
Signal Word	Danger
Hazard Statements	H314 Causes severe skin burns and eye damage H335 May cause respiratory irritation.
Precautionary Statements	P271 Use only outdoors or in a well-ventilated area. 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 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 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
Contains	Silicic acid, sodium salt sodium hydroxide sodium 4(or 5)-methyl-1H-benzotriazolide
GHS Classification	
Physical and Chemical Hazards	Not classified
Human Health	Skin Corr. 1B - H314, STOT SE 3 - H335
Environment	Not classified
OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
Inhalation	Inhalation may irritate nose, mouth, throat, and respiratory tract.
Ingestion	Exposure to liquid product causes severe irritation and burns. May cause damage to the mouth, throat, stomach, gastrointestinal tract.
Skin contact	Exposure to liquid product causes severe irritation to skin, and burns. Symptoms of exposure may include redness, itching, swelling or pain.
Eye contact	Exposure to liquid product causes severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, itching, swelling, tearing or pain. Effects of contact may be delayed. Avoid contact.

Routes of Exposure 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, drink a quart 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 Inhalation may irritate nose, mouth, throat, and respiratory tract.

Ingestion Exposure to liquid product causes severe irritation and burns. May cause damage to the mouth, throat, stomach, gastrointestinal tract.

Skin contact Exposure to liquid product causes severe irritation to skin, and burns. Symptoms of exposure may include redness, itching, swelling or pain.

Eye contact Exposure to liquid product causes severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, itching, swelling, tearing or pain. Effects of contact may be delayed. Avoid contact.

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.

SECTION 5: FIREFIGHTING MEASURES

Auto Ignition Temperature (°C) No Information available.

Flammability Limit–Lower (%) No Information available.

Flammability Limit–Upper (%) No Information available.

Flashpoint No Information available.

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

Hazardous combustion products Combustion may lead to the release of oxides of nitrogen. May leave a caustic residue.

Unusual Fire & Explosion Hazards Dried residue can stimulate the combustion of organic materials.

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, including a self-contained breathing apparatus.

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. Dike

spill area and soak up material with sand or other absorbent. Place into chemical waste container for disposal according to local, state or federal regulations. Flush spill area with water.

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.
Specific End Use(s)	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 Engineering Measures Respiratory Equipment

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 chemical splash goggles. 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	Colorless to Pale Amber Liquid.
Color	Colorless to Pale Amber Liquid.
Odor	Slight.
Odor Threshold -Lower	No Information available.
Odor Threshold - Upper	No Information available.
pH-Value, Conc. Solution	13.1
Melting point	32.0 °F
Initial boiling point and boiling	212.0 °F

range

Flashpoint	No Information available.
Evaporation rate	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	1.119 @ 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 strong acids, strong reducing agents, ammonia salts, amines, phthalic acid and cyanides.
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	Oxides of nitrogen. May leave a caustic residue.
Conditions to Avoid	Avoid contact with strong acids, strong reducing agents, ammonia salts, amines, phthalic acid and cyanides.
Materials to Avoid	Keep away from strong acids, strong reducing agents, ammonia salts, amines, phthalic acid and cyanides.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	>1295.00mg/kg Rat
Acute Toxicity (Dermal LD50)	>592.00mg/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
Silicic acid, sodium salt	1153mg/kg Rat		
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		

SECTION 12: ECOLOGICAL INFORMATION


Ecotoxicity	No Information available.
Acute Toxicity - Fish	LC50 96 Hours >7600.00ppm Onchorhynchus mykiss (Rainbow Trout)
Acute Toxicity - Aquatic Invertebrates	LC50 48 Hours >960.00ppm Daphnia magna
Acute Toxicity - Aquatic Plants	EC50 72 Hours >190.00ppm
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.

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

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)	3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (Sodium Hydroxide)
UN No. (IMDG)	3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (Sodium Hydroxide)
UN No. (ICAO)	3266 - Corrosive liquid, basic, inorganic (Sodium Hydroxide)
DOT Proper Shipping Name	3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (Sodium Hydroxide)
TDG Proper Shipping Name	3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (Sodium 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	III
IMDG Pack Group	III
Air Pack Group	III
EMS	F-A, S-B
Environmentally Hazardous Substance/Marine Pollutant	No

SECTION 15: REGULATORY INFORMATIONUS 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 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 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

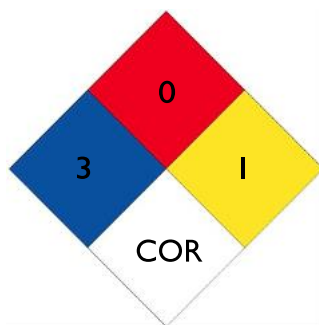
The Following ingredients are listed sodium hydroxide

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 06/05/2015
Revision I

Disclaimer

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