

# SAFETY DATA SHEET

Ultra-Lyte®

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union REACH Regulations

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ultra-Lyte®  
PRODUCT DESCRIPTION: Electro-Chemically Activated solution of sodium chloride (0.5% or less)  
CHEMICAL FAMILY NAME: Diluted Mixture of Oxychlorine Compounds  
U.N. NUMBER: None  
U.N. DANGEROUS GOODS CLASS: Non-Regulated Material  
SUPPLIER/MANUFACTURER'S NAME: Clarentis Technologies, LLC  
ADDRESS: 22 St. James Drive, Palm Beach Gardens, FL 33418  
EPA ESTABLISHMENT NO. 86854-FL-001  
EMERGENCY PHONE: (561) 776-3106  
BUSINESS PHONE: (561)776-3106 (Product Information)  
E-MAIL: info@clarentis.com  
DATE OF PREPARATION: June 12, 2012  
DATE OF LAST REVISION: May 1, 2024

## SECTION 2 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

**Product Description:** This product is a colorless with chlorine-like odor.

**Health Hazards:** Exposure to this product is not expected to cause any adverse health hazards.

**Flammability Hazards:** This product is Non-Flammable.

**Reactivity Hazards:** None known.

**Environmental Hazards:** The environmental effects of this product have not been investigated; however, it is not expected to cause any adverse effects.

**Emergency Considerations:** Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

GHS Hazard Symbols

Non-Regulated Material

Not Controlled

None

Signal Word: **None!**

### EU LABELING AND CLASSIFICATION:

Classification of the substance or mixture according to Regulation (EC) No1272/2008 Annex 1

EC# 231-791-2 This substance is not classified in the Annex I of Directive 67/548/EEC

EC# 231-598-3 This substance is not classified in the Annex I of Directive 67/548/EEC

EC# 232-232-5 This substance is not classified in the Annex I of Directive 67/548/EEC

GHS Hazard Classification(s):

None

Hazard Statement(s):

None

Precautionary Statement(s):

None

### HEALTH HAZARDS OR RISKS FROM EXPOSURE:

**ACUTE:** Exposure to this product is not expected to cause any adverse health effects.

**CHRONIC:** None known.

**TARGET ORGANS:**

**ACUTE:** None known

**CHRONIC:** None known

## SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENTS:                | CAS #     | EINECS #  | ICSC #     | WT %   | HAZARD CLASSIFICATION;<br>RISK PHRASES            |
|---------------------------------------|-----------|-----------|------------|--------|---------------------------------------------------|
| Water                                 | 7732-18-5 | 231-791-2 | Not Listed | 99.5%  | HAZARD CLASSIFICATION: None<br>RISK PHRASES: None |
| Sodium Chloride                       | 7647-14-5 | 231-598-3 | Not Listed | 0.450% | HAZARD CLASSIFICATION: None<br>RISK PHRASES: None |
| Hypochlorous Acid/Sodium Hypochlorite | 7790-92-3 | 232-232-5 | Not Listed | 0.046% | HAZARD CLASSIFICATION: None<br>RISK PHRASES: None |

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Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

**NOTE:** ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

## SECTION 4 - FIRST-AID MEASURES

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.

**SKIN CONTACT:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and reduce over-exposure.

## SECTION 5 - FIRE-FIGHTING MEASURES

**FLASH POINT:**

**AUTOIGNITION TEMPERATURE:**

**FLAMMABLE LIMITS (in air by volume, %):**

**FIRE EXTINGUISHING MATERIALS:**

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Non-Flammable

Not Established

Lower (LEL): Not Established Upper (UEL): Not Established

Use water fog, alcohol foam, dry chemical, or carbon dioxide

No known fire or explosion hazards.

Explosion Sensitivity to Mechanical Impact:

Not Sensitive.

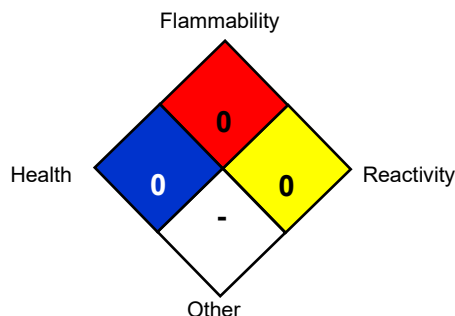
Explosion Sensitivity to Static Discharge:

Not Sensitive

**SPECIAL FIRE-FIGHTING PROCEDURES:**

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

### NFPA RATING SYSTEM



### HMIS RATING SYSTEM

| HAZARDOUS MATERIAL IDENTIFICATION SYSTEM                                            |             |                                                                                       |            |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|------------|
| HEALTH HAZARD (BLUE)                                                                |             |                                                                                       | 0          |
| FLAMMABILITY HAZARD (RED)                                                           |             |                                                                                       | 0          |
| PHYSICAL HAZARD (YELLOW)                                                            |             |                                                                                       | 0          |
| PROTECTIVE EQUIPMENT                                                                |             |                                                                                       |            |
| EYES                                                                                | RESPIRATORY | HANDS                                                                                 | BODY       |
|  | See Sect 8  |  | See Sect 8 |
| For Routine Industrial Use and Handling Applications                                |             |                                                                                       |            |

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Cover or absorb spilled liquid with sand, earth or other inert material. Clean up spill immediately and place in appropriate containers. Some localities allow this to be sent to open storm sewers, however local environmental regulatory requirements should be followed. If desired, spills can be washed to sewer with plenty of water, or neutralized by sodium sulfite or sodium thiosulfate. Dispose of in accordance with applicable

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Federal, State, and local procedures (see Section 13, Disposal Considerations).

## SECTION 7 - HANDLING and STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices.

**STORAGE AND HANDLING PRACTICES:** Store in a cool dry location. Protect from physical damage.

## SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

### EXPOSURE LIMITS/GUIDELINES:

| Chemical Name                         | CAS#      | ACGIH TWA  | OSHA TWA   | WEEL       |
|---------------------------------------|-----------|------------|------------|------------|
| Water                                 | 7732-18-5 | Not Listed | Not Listed | Not Listed |
| Sodium Chloride                       | 7647-14-5 | Not Listed | Not Listed | Not Listed |
| Hypochlorous Acid/Sodium Hypochlorite | 7790-92-3 | Not Listed | Not Listed | Not Listed |

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards or the European Standard EN149, or EU member states.

**HAND PROTECTION:** Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada or the European Standard EN149, or EU member states.

**BODY PROTECTION:** Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

## SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| <b>PHYSICAL STATE:</b>                   | Liquid                                     |
| <b>APPEARANCE &amp; ODOR:</b>            | Clear, colorless with a chlorine like odor |
| <b>ODOR THRESHOLD (PPM):</b>             | Not Applicable                             |
| <b>VAPOR PRESSURE (mmHg):</b>            | Negligible                                 |
| <b>RELATIVE DENSITY:</b>                 | 1.0088                                     |
| <b>EVAPORATION RATE (nBuAc = 1):</b>     | Not Applicable                             |
| <b>BOILING POINT (C°):</b>               | 100°C (212°F)                              |
| <b>MELTING/FREEZING POINT (C°):</b>      | 0°C (32°F)                                 |
| <b>pH:</b>                               | 5.8 – 6.2                                  |
| <b>SPECIFIC GRAVITY 20°C: (WATER =1)</b> | 1                                          |
| <b>SOLUBILITY IN WATER (%)</b>           | Complete                                   |

## SECTION 10 - STABILITY and REACTIVITY

**STABILITY:** Product is stable

**DECOMPOSITION PRODUCTS:** When heated to decomposition this product produces carbon dioxide and carbon monoxide.

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**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** None known

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None known

## SECTION 11 - TOXICOLOGICAL INFORMATION

**TOXICITY DATA:** No Toxicity data is available for this product:

No LD 50 Data Available

**SUSPECTED CANCER AGENT:** None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT:** Contact with this product can be irritating to exposed skin and eyes.

**SENSITIZATION OF PRODUCT:** This product is not considered a skin sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No information concerning the effects of this product and its components on the human reproductive system

## SECTION 12 - ECOLOGICAL INFORMATION

**ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

**ENVIRONMENTAL STABILITY:** No specific data is available for this product; however, this product is expected to be readily biodegradable.

**EFFECT OF MATERIAL ON PLANTS or ANIMALS:** No evidence is currently available on this product's effects on plants or animals.

**EFFECT OF CHEMICAL ON AQUATIC LIFE:** No evidence is currently available on this product's effects on aquatic life. However, it has been reported that it could harm fish.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

**RCRA WASTE CODE:** Not Listed

**EU WASTE CODE:** Not Listed

## SECTION 14 - TRANSPORTATION INFORMATION

**US DOT; IATA; IMO; ADR:**

**THIS PRODUCT IS NOT CLASSIFIED AS DANGEROUS GOODS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.**

**PROPER SHIPPING NAME:** Non-Regulated Material

**HAZARD CLASS NUMBER and DESCRIPTION:** None

**UN IDENTIFICATION NUMBER:** None

**PACKING GROUP:** None

**DOT LABEL(S) REQUIRED:** None

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004):** None

**MARINE POLLUTANT:** These products ingredients are not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

**TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:**

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

**INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):**

This product is not classified as Dangerous Goods, by rules of IATA:

**INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:**

This product is not classified as Dangerous Goods by the International Maritime Organization.

**EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):**

This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

## SECTION 15 - REGULATORY INFORMATION

**UNITED STATES REGULATIONS**

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**SARA REPORTING REQUIREMENTS:** This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

**SARA 311/312:**

Acute Health: No      Chronic Health: No      Fire: No      Reactivity: No

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None.

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** None of the ingredients are on the California Proposition 65 lists.

**CANADIAN REGULATIONS:**

**CANADIAN DSL/NDL INVENTORY STATUS:** All of the components of this product are on the DSL Inventory

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** No component of this product is on the CEPA First Priorities Substance Lists.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** This product is categorized as Not Controlled, as per the Controlled Product Regulations

**EUROPEAN ECONOMIC COMMUNITY INFORMATION:**

**EU LABELING AND CLASSIFICATION:**

**Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.**

**AUSTRALIAN INFORMATION FOR PRODUCT:**

**AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS:** All components of this product are listed on the AICS.

**STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS:** Not applicable.

**JAPANESE INFORMATION FOR PRODUCT:**

**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

**INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

|                                                                     |        |
|---------------------------------------------------------------------|--------|
| Asia-Pac:                                                           | Listed |
| Australian Inventory of Chemical Substances (AICS):                 | Listed |
| Korean Existing Chemicals List (ECL):                               | Listed |
| Japanese Existing National Inventory of Chemical Substances (ENCS): | Listed |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS): | Listed |
| Swiss Giftliste List of Toxic Substances:                           | Listed |
| U.S. TSCA:                                                          | Listed |

## SECTION 16 - OTHER INFORMATION

**PREPARED BY:** Paul Eigbrett

Disclaimer: The information and recommendations in this document are accurate to the best of our knowledge. User must conduct their own tests to determine the suitability of these products for their particular purposes. Because of numerous factors affecting results, Clarentis Technologies, LLC MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR PURPOSE, other than the material conforms to our applicable current specifications. Clarentis Technologies, LLC assumes no legal responsibility for use or reliance on the information contained in this Material Safety Data Sheet.