HOCL500

1. Chemical Product and Company Identification

Product Identifier:	Ultra-Lyte, HOCL500 Electro-Chemically Activated solution of sodium chloride (0.9% or less)
Other Means of Identification:	**EPA Establishment # 087148-CAN-001** **DIN: 02362546**
Chemical Family:	Diluted Mixture of Oxychlorine Compounds
CAS #:	None (Mixture)
Recommended Use:	Antimicrobial agent
Restrictions on Use:	Not available
Manufacturer:	SiO2 Innovation Labs
Address:	345 Wilson Ave, Suite 306, M3H 5W1 Toronto Ontario
Telephone Number:	

Emergency Telephone Number: Not available

2. Hazard Identification

***Hazard Classification*:** Not available.

2.1 Dangerous Components of the Product
Toxicity:
2.1.1. Identification: none
2.1.2. Danger symbol: none
2.1.3. Toxicity: none determined

Label elements:
Signal word: none
Hazard statement(s): none
Precautionary statement(s): Under normal use conditions the likelihood of any adverse health effect is low.

Hazards Not Otherwise Classified: Not available.

Percentage of Ingredients with Unknown Toxicity: Not available.

3. Composition/Information on Ingredients

99.500% Water, 0.450% sodium chloride, 0.004% other
0.046% oxidizer as hypochlorous acid/sodium hypochlorite

4. First-aid measures

***Skin contact*:** Where irritation appears, wash area with water.

***Eye contact*:** If irritated, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

***Ingestion*:** Drink water to flush through and dilute.

***Inhalation*:** If breathing problems develop, move into fresh air. If dizziness or nausea occurs seek immediate medical attention.

Most important symptoms and effects (acute or delayed): Not available.

Immediate medical attention and special treatment, if necessary: Not available.

5. Fire-fighting measures

Not flammable or explosive as product consists of 99.50% water. In a fire, cool containers to prevent release of free chlorine.

Suitable and unsuitable extinguishing media: Not available.

Hazardous combustion products: Not available.

Special protective equipment and precautions for fire-fighters: Not available.

6. Accidental release measures

***Personal precautions, protective equipment and emergency procedures*:** Not available.

***Methods and materials for containment and cleaning up*:** Not available.

Spills, Leaks, Effluent Handling Procedures: HOCL500™ is <0.9% sodium chloride (salt) solution and less than 0.05% available chlorine. 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.

7. Handling and storage

***Precautions for safe handling*:** Not available.

***Conditions for safe storage including incompatible materials*:** Not available.

8. Exposure Controls/Personal Protection

No personal protective equipment is required under normal conditions. The following suggestions should be considered in case of accidental chlorine release due to acidification.

***Ventilation*:** Open air or good room ventilation is normally adequate for the safe use of the product. Avoid breathing any vapours or fumes resulting from acidification ventilation.

***Respiratory Protection*:** In accordance with OSHA regulations (29 CFR 1910.134 and 29 CFR 1910.1000) fogging or spraying applications may require worker respiratory protection, such as: (1) NIOSH/MSHA approved air-purifying - respirators, or (2) NIOSH/MSHA approved canister/cartridge facial respirators approved for chlorine/acid vapours.

***Eye Protection*:** Although HOCL500 is a decontaminant designed not to irritate eyes or skin, good manufacturing/laboratory practice recommends use of chemical safety goggles for all applications involving chemical handling.

***Protective Clothing*:** Although HOCL500 is a decontaminant designed not to irritate eyes or skin, good manufacturing/laboratory practice recommends that, at a minimum, rubber, neoprene, or other chemically impervious gloves be worn for all applications involving chemical handling.

9. Physical and chemical properties

Physical state: Liquid
Appearance/Colour/Odour: Colourless with Chlorine-Like Odour
Boiling point: 100°C
Melting point//Freezing point Range: Comparable to Water
Specific gravity: 1.02 – 1.06 g/ml
Evaporation rate: Comparable to Water
Solubility in water: Complete
pH: 6.3 – 6.7
Viscosity: (21c) Average: 0.9846mm 2/s (cSt)
Viscosity: (41c) Average: 0.6346mm 2/s (cSt)
Flash point: Not available
Odour threshold: Not available
Flammability (solid; gas): Not available
Lower flammable/explosive limit & Upper flammable/explosive limit: Not available
Vapour pressure: Not available
Vapour density: Not available
Partition coefficient - n-octanol/water: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available

10. Stability and reactivity

***Reactivity*:** Not available.

***Chemical Stability*:** Loses its level of available chlorine at high temperature and under direct sunlight.

***Possibility of hazardous reactions*:** Not available.

***Conditions to Avoid*:** Avoid accidental or uncontrolled contact of anolyte solution with acids and hydrogen peroxide.

Incompatible materials: Acids and hydrogen peroxide.

Hazardous decomposition products: Not available.

11. Toxicological information

Likely routes of exposure: Inhalation, ingestion, skin and eye contact.

Symptoms related to the physical, chemical and toxicological characteristics: Not available.

Delayed and immediate effects, and chronic effects from short-term and long-term exposure:
Under normal use conditions the likelihood of any adverse health effect is low.

Acute Toxicity Estimates:
LD50 of product: undetermined
LC50 of product: undetermined

12. Ecological information

Not available.

13. Disposal considerations

Not available.

14. Transport information

Not available.

15. Regulatory information

EPA Establishment # 087148-CAN-001
DIN: 02362546

16. Other Information

Date of Preparation: Re-formatted 15 Jun 2019

HOCL500 was developed to be a less hazardous antimicrobial agent than many of those agents now in use.

DISCLAIMER:
This information is based on our current knowledge and is intended to describe the product for the purposes of health and safety requirements only. It should not, therefore, in itself be construed as a guarantee of any specific quality relating to the product