

Material Safety Data Sheet

Ultra-Lyte

1. Chemical Product and Company Identification

Product name: Ultra-Lyte
Electro-Chemically Activated solution of sodium chloride (0.9% or less)

Chemical Family: Diluted Mixture of Oxychlorine Compounds

CAS #: None (Mixture)

Company: Plains ECA Solutions Inc.
General Delivery
Decker Manitoba
ROM OKO

EPA Establishment # 087148-CAN-001
DIN: 02362546

2. Composition / Information on Ingredients

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

2.1 Dangerous Components of the Product

- 2.1.1. **Identification:** none
- 2.1.2. **Danger symbol:** none
- 2.1.3. **Toxicity:** none determined

3. Physical Data for the Material

Physical state: Liquid
Boiling point: 100°C
Melting point/Range: Comparable to Water
Specific gravity: 1.02 – 1.06 g/ml
Appearance / Color / Odor: Colorless with Chlorine-Like Odor
Evaporation rate: Comparable to Water
Solubility in water: Complete
pH: 6.3 – 6.7
Viscosity: (21c) Average: 0.9846mm²/s (cSt)

Viscosity: (41c) Average: 0.6346mm²/s (cSt)

4. Fire and Explosive Hazard Information

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

5. Reactivity Data.

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

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

6. Health Hazard Data.

Under normal use conditions the likelihood of any adverse health effect is low.

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

Toxicity:

LD 50 of product: undetermined

LC 50 of product: undetermined

7. Control Measures / Personal Protective Equipment

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 vapors 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 vapors.

Eye Protection: Although Ultra-Lyte 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 Ultra-Lyte 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.

8. Spill, Leak, and Disposal Procedures:

Spills, Leaks, Effluent Handling Procedures: Ultra-Lyte™ 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.

9. Additional Information/comments:

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