

Safety Data Sheet

1. IDENTIFICATION:

Product Name: ELECTROLYTE SOLUTION
Synonyms: Potassium chloride solution
CAS Number: Mixture
Catalog Numbers: 10209 U23649
Product Use: Analytical / Laboratory Reagent
Manufacturer: HF Scientific, Inc
Address: 3170 Metro Parkway Fort Myers, FL 33916

General Information: 888-203-7248
Transportation Emergency Number: CHEMTREC® 24 hr US 800-424-9300
 CHEMTREC® 24 hr International 703-527-3887

2. HAZARDS IDENTIFICATION

GHS Classification

Health	Environmental	Physical
Acute toxicity: Category 5 Skin irritation: Category 3 Eye irritation: Category 2B	Aquatic toxicity: None	Flammable: No

GHS Label

Pictogram: No symbol	Signal Word: WARNING
Hazard Statements: May be harmful if swallowed May be harmful in contact with skin May be harmful if inhaled Causes mild skin irritation Causes eye irritation	Precautionary Statements IF INHALED remove to fresh air immediately. If breathing has stopped perform artificial respiration. Get medical attention immediately. IF IN EYES wash eyes immediately with large amount of water, lifting upper and lower lids for approximately 15 to 20 minutes. Get medical attention immediately.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Cas Number	Weight %
Potassium Chloride	7447-40-7	N/A
Silver Chloride	7783-90-6	N/A
Water	7732-18-5	N/A

4. FIRST AID MEASURES

Eye Contact: Wash eyes immediately with large amount of water, lifting upper and lower lids for approximately 15 to 20 minutes. Get medical attention immediately.
Skin Contact: Remove contaminated articles of clothing. Rinse affected area with large amounts of water 15 or 20 minutes. Get medical attention immediately.
Inhalation: Remove to fresh air immediately. If breathing has stopped perform artificial respiration. Get medical attention immediately.
Ingestion: If victim is conscious, give large quantities of water, to dilute the alkali. Do not induce vomiting. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use dry chemical, carbon dioxide, water spray or regular foam.
Fire Fighting Procedures: N/A
Unusual Fire and Exposure Hazards: N/A
Combustion Products: N/A
NFPA Classification HEALTH: 2 **FLAMMABLE:** 0 **REACTIVITY:** 1

6. ACCIDENTAL RELEASE MEASURES

Isolate the spill. Absorb with vermiculite, absorbent paper or similar material. Place in chemical waste disposal containers.

7. HANDLING AND STORAGE

Handling: Maintain an eye wash fountain and quick-drench facilities in work area. Wash well after handling. Avoid breathing vapors.
Storage: Keep tightly closed in a cool, dry, ventilated area. Protect from physical damage and extremes in temperature and pressure. Isolate from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: N/A
Engineering Controls: General ventilation is adequate.
Personal Protective Equipment:
Eyes: Wear splash-proof or dust resistant safety goggles
Skin: Appropriate impervious clothing, gloves and other equipment
Respiratory: Select a respirator based on contamination levels and approved by NIOSH.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint: N/A
Autoignition Temperature: N/A
Boiling Point: 212°C
Melting Point: 14°C
Vapor Pressure: 14 (H₂O)

Vapor Density: 0.7 (H₂O)
% Solubility in Water: Infinite

Pour Point: N/A
Molecular Formula: Mixture
Odor / Appearance: Odorless, colorless liquid

Lower Flammability Limit: N/A
Upper Flammability Limit: N/A
Specific Gravity: 1.2
% Volatile: N/A
Evaporation Rate (Water=1): >1
Viscosity: N/A
Octanol / Water Partition Coefficient: N/A
pH: N/A
Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Stability / Incompatibility: Stable under ordinary conditions of use and storage. Container may burst when heated. Incompatible with strong acids, may release toxic chloride gases. May react violently with Bromide Trifluoride. Contact with Sulfuric Acid or Potassium Permanganate may react explosively.
Hazardous Reactions / Decomposition Products: Thermal decomposition may release corrosive Hydrogen Chloride. Hazardous polymerization has not been reported to occur.

11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure: May cause nasal and lung irritation, also irritation of the skin, eyes and gastrointestinal tract with vomiting. May cause circulatory and heart problems.
Acute Effects: Nasal and lung irritation, irritation of the skin, eyes and gastrointestinal tract with vomiting
Eye Contact: Irritation of eyes
Skin Contact: Irritation of the skin
Inhalation: Irritation of the nose and lungs
Ingestion: Irritation of gastrointestinal tract and vomiting
Target Organs Effects: N/A
Chronic Effects: Lesions to the nasal septum in addition to all other symptoms.
Medical Conditions Aggravated by Exposure: N/A
Acute Toxicity Values: N/A

12. ECOLOGICAL INFORMATION

Environmental Fate: Not Determined.
Environmental Toxicity: Not Determined.

13. DISPOSAL CONSIDERATIONS

Waste must be disposed of in accordance with all Local, State and federal environmental regulations.

14. TRANSPORT INFORMATION

US DOT (United States Department of Transportation): Not regulated
IATA (International Air Transport Association): Not regulated
IMO (International Maritime Organization): Not regulated

15. REGULATORY INFORMATION

CERCLA: No
SARA/Title III: No
TSCA Inventory: No
Cal. Proposition 65: No
WHMIS: No
DSL: Yes
NDSL: No

16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.