

Safety Data Sheet

1. IDENTIFICATION:

Product Name: ELECTROLYTE SOLUTION 15 ML
Synonyms: N/A
CAS Number: Mixture
Catalog Numbers: 10231 W2T13194 U85506
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: None	Signal Word: WARNING
Hazard Statements: May be harmful if swallowed May be harmful in contact with skin Causes mild skin irritation Causes eye irritation	Precautionary Statements IF IN EYES immediately flush eyes with copious quantities of water for a minimum of 15 minutes. Use fingers to assure that eyelids are separated and that eye is being irrigated. Call a physician.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Cas Number	Weight %
Glycerol	56-81-5	97%
Potassium bromide	7758-02-3	2%
Water	7732-18-5	1%

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes gently with copious quantities of water for a minimum of 15 minutes. Use fingers to assure that eyelids are separated and that eye is being irrigated. Call a physician.

Skin Contact: Remove contaminated clothing. Flush contaminated area with copious quantities of water for 15 minutes. Call a physician.

Inhalation: Move patient immediately to uncontaminated atmosphere. Except in minor cases of exposure without symptoms, seek medical advice promptly.

Ingestion: Do not induce vomit. Seek medical attention promptly. If vomiting occurs, take steps to avoid aspiration of vomited material into the respiratory tract. To prevent choking, position body so that material is freely ejected. Give milk, water containing milk of magnesia or olive oil.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray

Fire Fighting Procedures: Increases the flammability of combustible, organic and readily oxidizable materials. In the event of a fire, wear full protective clothing and NIOSH-approved self contained breathing apparatus with full facepiece operated in the pressure demand or other positive mode.

Unusual Fire and Exposure Hazards: May react explosively with combustible organic or readily oxidizable materials such as alcohols, turpentine, charcoal, organic refuse, metal powder, hydrogen sulfide, etc.

Combustion Products: N/A

NFPA Classification HEALTH: 2 **FLAMMABLE:** 1 **REACTIVITY:** 1

6. ACCIDENTAL RELEASE MEASURES

In the case of an accidental spill, isolate the spill. Absorb with vermiculite or other absorbent, inert material. Place chemical in waste disposal container.

7. HANDLING AND STORAGE

Handling: Wash well your hands after handling. Avoid breathing vapors.

Storage: Keep tightly closed in a cool, dry, ventilated area. Protect from physical damage and direct sunlight. Isolate from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

OSHA Permissible Exposure Limit (PEL): Not established
ACGIH Threshold Limit Value (TLV): 10 mg/m³ (TWA)

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document "Industrial Ventilation, A Manual of Recommended Practices" most recent edition for details.

Personal Protective Equipment:

Eyes: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Skin: Wear Latex or Nitrile gloves or lab coat or apron.

Respiratory: For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint: Not combustible

Autoignition Temperature: N/A

Boiling Point: N/A

Melting Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

% Solubility in Water: N/A

Pour Point: N/A

Molecular Formula: Mixture

Odor / Appearance: Colorless and odorless liquid

Lower Flammability Limit: N/A

Upper Flammability Limit: N/A

Specific Gravity: 1.20

% Volatile: N/A

Evaporation Rate (Water=1): N/A

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.

Containers may burst when heated. Incompatibles substances are strong acids, bases, oxidizers, metallic powders, carbides, hydrogen sulfide, bromine trifluoride, turpentine and combustible organics. Avoid direct sunlight and incompatible materials.

Hazardous Reactions / Decomposition Products: When heated emits toxic fumes of nitrogen oxides, hydrogen nitrate, and bromine. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure: Can cause irritation to skin and eyes, headache, restlessness, insomnia, dizziness, vomiting, gastrointestinal irritation with nausea, diarrhea and fever.

Acute Effects: Irritation to skin, eyes and gastrointestinal tract. Headache, restlessness, insomnia, dizziness, vomiting, nausea, diarrhea and fever.

Eye Contact: Irritation of eyes

Skin Contact: Irritation of skin

Inhalation: N/A

Ingestion: Gastrointestinal tract irritation, nausea, vomiting, diarrhea and fever.

Target Organs Effects: N/A

Chronic Effects: Repeated or prolonged exposures may cause chronic inflammation of the nose, throat, and bronchial tubes. Glycerol may cause damage to the kidneys.

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: D2A, Disclosure at 0.1% according to the ingredient

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.

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