

Safety Data Sheet

1. IDENTIFICATION:

Product Name: ELECTROLYTE CONCENTRATION, 1 GALLON

Synonyms: N/A

CAS Number: Mixture

Catalog Numbers: 10219 W2T15432 U24512

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 4 Skin irritation: Category 3 Eye irritation: Category 2B	Aquatic toxicity: None	Flammable: No

GHS Label

Pictogram:	Signal Word:
	WARNING
Hazard Statements: Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes mild skin irritation Causes eye irritation	Precautionary Statements IF SWALLOWED induce vomiting immediately as directed by medical personnel. IF ON SKIN immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops. IF IN EYES immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower lids occasionally. Get medical attention if irritation persists. Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Cas Number	Weight %
Glycerol	56-81-5	84.3%
Water	7732-18-5	14.6%
Potassium Iodide	7681-11-0	1.1%

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes.

Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, carbon dioxide, dry chemical, alcohol foam, water.

Fire Fighting Procedures: Water self-contained breathing apparatus.

Unusual Fire and Exposure Hazards: Extremely hazardous when exposed to heat, flame and oxidizers.

Combustion Products: N/A

NFPA Classification HEALTH: 1 **FLAMMABLE:** 1 **REACTIVITY:** 0

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer.

7. HANDLING AND STORAGE

Handling: Do not breathe vapors. Laboratory area should be equipped with safety shower and eye bath.

Storage: Keep in a tightly closed light-resistant container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: N/A

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.

Personal Protective Equipment:

Eyes: Wear safety goggles.

Skin: Wear chemical resistant gloves and lab coat or other protective clothing.

Respiratory: Wear NIOSH/MSHA approved respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint: 302°F

Autoignition Temperature: N/A

Boiling Point: 171°C

Melting Point: 17.8°C

Vapor Pressure: < 0.1

Vapor Density: 3.1

% Solubility in Water: Miscible

Pour Point: N/A

Molecular Formula: Mixture

Odor / Appearance: Clear, odorless liquid

Lower Flammability Limit: N/A

Upper Flammability Limit: N/A

Specific Gravity: 1.26

% 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. Can react violently with acetic anhydride, calcium oxychloride, chromium oxides and alkali metal hydrides. Diazonium salts; diisopropyl peroxydicarbonate; oxidants; bromine and chlorine trifluorides; fluorine perchlorate; calomel (mercurous chloride); potassium chlorate; metallic salts; tartaric and other acids.

Hazardous Reactions / Decomposition Products: Toxic gases and vapors may be released if involved in a fire. Acrolein, oxides of the contained metal and halogen, possibly also free, or ionic halogen. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure: Irritating on contact. Causes eye irritation. Ingestions of large amounts may cause angioneurotic edema

Acute Effects: Causes eye irritation. Ingestion of large amounts may cause angioneurotic edema, cutaneous and mucosal hemorrhage, fever and lymph node enlargement.

Eye Contact: Irritation of eye

Skin Contact: Irritation of skin

Inhalation: N/A

Ingestion: May cause angioneurotic edema, cutaneous and mucosal hemorrhage, fever and lymph node enlargement.

Target Organs Effects: N/A

Chronic Effects: N/A

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

All disposal practices must be in compliance with all Federal, State/Provincial and local laws and 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.

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