

SECTION 1: IDENTIFICATION

According to OSHA HazCom Std 29 CFR 1910.1200 (b)(2): "This section applies to any chemical which is known to be present in the workplace in such a manner that employees may be exposed under normal conditions of use or in a foreseeable emergency."

1.1 Product Identifier

Product Name Electrolyte with Glycerol Reference Electrodes
Substance Name Aqueous Salt Solution
CAS Number Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Electrochemical sensors.
Uses advised against (if applicable): Not applicable; use as directed.
Reasons why uses advised against (if applicable): Not applicable.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer/Supplier: Foxboro by Schneider Electric
Street address: 38 Neponset Avenue
City, State Zip Code: Foxborough, MA 02035
Country: USA
Telephone number: (508) 549-2424

Name of Importer: Not applicable.
Address of Importer: Not applicable.

1.4 Emergency Phone: CHEMTEL phone: +1 (800) 255-3924

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

This product is not classified as hazardous according to OSHA HazCom 2012 (29 CFR 1910).

2.2 Label elements

None.

Signal Word

None.

Hazard Statements

None.

Precautionary statements

Prevention

None.

Response

None.

Storage

None.

Disposal

Dispose of contents in accordance with local, regional, and national regulations.

2.3 Hazards Not Otherwise Classified

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

INGREDIENT	CAS NO.	% WT
Water	7732-18-5	55
Potassium Chloride	7447-40-7	16
Glycerol Anhydrous	56-81-5	29

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

If symptoms appear, call a physician. Show this safety data sheet to the doctor in attendance.

Eye contact

Flush with copious amounts of water for at least 15 minutes holding lids apart to ensure the flushing of the entire surface. Seek medical attention.

Skin contact

Wash skin with soap and water. Remove contaminated clothing. Seek medical attention.

Inhalation

Remove patient to fresh air. Administer artificial respiration or CPR if breathing has ceased. Seek medical attention.

Ingestion

Have conscious person drink several glasses of water to dilute, induce vomiting. Call a physician. Never give anything by mouth to an unconscious or convulsing person.

4.2 Most important symptoms and effects, both acute and delayed

None.

4.3 Indication of any immediate medical attention and special treatment needed

Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Not Flammable.

Unsuitable extinguishing media

Not Flammable.

5.2 Special hazards arising from the substance or mixture

None.

5.3 Advice for firefighters

None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with exposed skin and eyes.

6.2 Environmental precautions

None.

6.3 Methods and material for containment and cleaning up

Contain spill with absorbent materials. Dispose of in accordance with federal, state and local environmental regulations.

6.4 Reference to other sections

See Section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid skin and eye contact.

7.2 Conditions for safe storage

Store at room temperature in closed container.

7.3 Specific end uses(s)

See Section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limit value (OELs):

Glycerol Anhydrous OSHA PEL: 15 mg/m³, total dust

Glycerol Anhydrous OSHA PEL: 15 mg/m³, respirable fraction

Derived No-Effect Levels (DNELs):

No data available.

Predicted No Effect Concentrations (PNECs):

No data available.

Work Hygiene Practices

No data available.

8.2 Exposure controls
Appropriate engineering controls
No data available.

Protective measures
No data available.

Personal Protective Equipment
Eye and Face Protection: Safety goggles when transferring material.
Skin Protection: Wear gloves when handling material.

Other protection: Ventilation Protection: Handle with adequate ventilation. See OSHA 29 CFR 1910.94 (Ventilation) and 29 CFR 1910.1000 (Air contaminants).

Respiratory Protection: Not required unless mist, fumes or vapor are generated by agitation or heating.

Environmental Exposure Controls
See Section 6.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Colorless liquid
Odor:	mild slightly sweet odor
Odor threshold:	No information available.
pH:	Approximately 7
Melting point:	Not applicable.
Initial boiling point and boiling range:	> 100 °C
Flash point:	No information available.
Evaporation rate:	<1
Flammability (solid, gas):	Not applicable.
Lower flammability/explosive limits	Not applicable.
Upper flammability/explosive limits	Not applicable.
Vapor pressure:	Approximately 24mm Hg @ 25 °C
Vapor density:	Not applicable.
Relative density:	No information available.
Solubility(ies) in water:	100%
Partition coefficient, n-octanol/water:	No information available.
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Explosive properties:	Not applicable.
Oxidising properties:	No information available.

9.2 Other information Specific Gravity: Approximately 1

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No data available.

10.2 Chemical stability
Stable under standard conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
Do not heat glycerol over boiling point 290 °C, high temperature will cause glycerol to decompose.

10.5 Incompatible materials
None.

10.6 Hazardous decomposition products
None.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Likely routes of exposure include eye and skin contact and ingestion.

Symptoms related to the physical, chemical and toxicological characteristics

No data available.

Delayed and immediate effects/chronic effects from short- and long-term exposure

No data available.

Acute toxicity

Acute oral toxicity

Potassium chloride LD50, rat: 3020 mg/kg
Glycerol anhydrous LD50, mouse: 4100 mg/kg

Acute dermal toxicity

No data available.

Acute inhalation toxicity

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory or Skin sensitization

No data available.

Germ Cell Mutagenicity

No data available.

Carcinogenicity

The components of this product are not established as carcinogens by IARC, NTP, or OSHA.

Reproductive toxicity

No data available.

Specific Target Organ Toxicity-Single Exposure (STOT-SE)

No data available.

Specific Target Organ Toxicity-Repeated Exposure (STOT-RE)

No data available.

Aspiration hazard

No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity to fish

No data available.

Acute toxicity to aquatic invertebrates

No data available.

Acute toxicity to algae

No data available.

Acute toxicity to other organisms

No data available.

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

No data available.

Chronic toxicity to algae

No data available.

Chronic toxicity to other organisms (bacteria)

No data available.

12.2 Persistence and degradability

Data are not available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow):

Bioconcentration factor (BCF):

12.4 Mobility in soil

Known or predicted distribution to environmental compartments:

Surface tension:

Adsorption/Desorption:

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of container and unused contents in accordance with federal, state and local requirements. State and local disposal regulations may differ from federal disposal regulations. Process, use or contamination of this product may alter the material properties to be considered in waste characterization. Whatever portions of the material that cannot be saved for recovery or recycling should be managed at an appropriate waste disposal facility.

SECTION 14: TRANSPORT INFORMATION**14.1 UN number**

Non-regulated

14.2 UN proper shipping name

Non-regulated

14.3 Transport hazard class(es)

Non-regulated

14.4 Packing group

Non-regulated

14.5 Environmental hazards

Non-regulated

14.6 Special precautions for users

Non-regulated

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Non-regulated

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****US Toxic Substances Control Act (TSCA):**

All chemical substances found in this product comply with the Toxic Substance Control Act, 40 CFR 700-799, inventory reporting requirements.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION**SDS PREPARATION INFORMATION:**

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None.