Material Safety Data Sheet

1. Substance

Product Name	2-Hydroxyethanoic acid, 70% solution
Product Number	N99005IN-0700
Company	Qualchem, Inc.
Street Address	4450 Business Park Ct SW
City, State, Zip, Country	LILBURN, GA 30047 US
Phone:	678-924-7777
Emergency Phone:	800-633-8253

2. Composition

Substance Name	CAS #	SARA 313
2-Hydroxyethanoic acid 70%	79-14-1	No
Water 30%	7732-18-5	No

Formula: C2 H4 O3
Synonyms: Glycolic acid, Hydroxyacetic acid
RTECS Number: MC5250000

3. Hazards Information

EMERGENCY OVERVIEW

	HMIS RATING	NFPA 704
HEALTH:	3	3
FLAMMABILITY:	0	0
REACTIVITY:	0	0

For additional information on toxicity, please refer to Section 11.

4. First aid measures

ORAL EXPOSURE
If swallowed, do not induce vomiting. Wash out mouth with water provided person is conscious and continue to provide large amounts of water. Call a physician.
INHALATION EXPOSURE
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
DERMAL EXPOSURE
In case of skin contact, immediately wash skin with soap and copious amounts of water for at least 15 minutes.
EYE EXPOSURE
Assure adequate flushing of the eyes by separating the eyelids with fingers.

5. Fire fighting measures

FLASH POINT
N/A
AUTOIGNITION TEMP
N/A
FLAMMABILITY
N/A
EXTINGUISHING MEDIA
Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.
FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.
EXPOSURE HAZARD
Corrosive Material

6. Accidental release measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL
Evacuate area.
PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.
METHODS FOR CLEANING UP
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

HANDLING
User Exposure: Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
STORAGE
Suitable: Keep container tightly closed. Store in a cool dry place.

8. Exposure controls / PPE

ENGINEERING CONTROLS
Safety shower and eye bath. Use only in a chemical fume hood.

PERSONAL PROTECTIVE EQUIPMENT
Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Faceshield (8-inch minimum).

GENERAL HYGIENE MEASURES
Wash thoroughly after handling. Wash contaminated clothing before reuse. Discard contaminated shoes.

9. Physical and chemical properties

Appearance Physical State: Liquid (Colorless)

Property	Value	At Temperature or Pressure
Molecular Weight	76.05 AMU	
BP/BP Range	112 °C	760 mmHg
MP/MP Range	10 °C	
Vapor Pressure	water vapor	
Vapor Density	n/a	
SG/Density	1.25 g/cm3	
Water content	30%	
Refractive Index	1.408	

10. Stability and reactivity

STABILITY:	Stable
MATERIALS TO AVOID:	Strong oxidizing agents and active metals.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, Carbon dioxide.
HAZARDOUS POLYMERIZATION:	Will not occur

11. Toxicological information

ROUTE OF EXPOSURE
Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin.

SIGNS AND SYMPTOMS OF EXPOSURE
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

12. Ecological information

24-48 hour LC50, Bluegill sunfish: 93 mg/L
96 hour LC50, Fathead minnow: 164 mg/L
48 hour EC50, Daphnia magna: 141 mg/L

These data indicate that glycolic acid has slight aquatic toxicity.
Biodegradability - Readily biodegradable after 7 days, 89.6% is biodegraded (closed bottle test).

13. Disposal considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Observe all federal, state, and local environmental regulations. If approved, maybe neutralized with lime or soda ash and flushed with wastewater treatment system. This material is a possible RCRA hazardous waste due to its corrosive nature.

14. Transport information:

DOT
Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Glycolic acid)
UN# 3265
Class: 8
Packing Group: II
Hazard Label: Corrosive
PIH: Not PIH

IATA
Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Glycolic acid)
UN# 3265
Class: 8
Packing Group: II

15. Regulatory information

EU ADDITIONAL CLASSIFICATION
Symbol of Danger: C
Indication of Danger: Corrosive.
R: 34
Risk Statements: Causes burns.
S: 23-26-36/37/39-45
Safety Statements: Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Corrosive.
Risk Statements: Causes burns.
Safety Statements: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wear suitable protective clothing, gloves, and eye/face protection. Do not breathe vapor.

UNITED STATES REGULATORY INFORMATION
SARA LISTED: No

CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: No
NDSL: No

16. Other information:

This information is being supplied under OSHA “Right to know” Regulation 29 CFR 1910.1200 and is offered in good faith as typical values and not as a product specification. The information contained here is based on the present state of our knowledge and does not therefore guarantee certain properties.

Recipients of our product must take responsibility for observing existing laws and regulations and understanding the hazards connected with the use of the material and its compounding or mixing with other materials. Qualchem assumes no responsibility for damage or injury from the use of the product described herein.

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