

MATERIAL SAFETY DATA SHEET

GLYCOLIC ACID SOLUTION

FILE NO.:
MSDS DATE: 06/05/10

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Glycolic Acid 70% Solution
SYNONYMS: Hydroxyacetic acid; Hydroxyethanoic acid; HAA
PRODUCT CODES:

MANUFACTURER: Pharmco Laboratories, Inc.
DIVISION:
ADDRESS: 3520 South Street, Titusville, FL 32780

EMERGENCY PHONE: 321-268-1313
CHEMTREC PHONE:
OTHER CALLS:
FAX PHONE: 321-268-1313

CHEMICAL NAME: Acetic Acid, Hydroxy
CHEMICAL FAMILY:
CHEMICAL FORMULA: HO-CH₂-COOH

PRODUCT USE: Cosmetic
PREPARED BY: Pharmco Laboratories, Inc.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>
Glycolic Acid	79-14-1	68.0 – 72,0%	
Water	7732-18-5	28.0 – 32,0%	

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

POTENTIAL HEALTH EFFECTS

Eye contact may cause eye corrosion with corneal or conjunctival ulceration. Permanent eye damage can occur.

Skin contact may cause severe skin irritation with discomfort or rash. Higher or prolonged exposure may, cause skin burns or ulcerations.

Ingestion may cause corrosion of mucous membranes with stomach discomfort, nausea, and prostration. Kidney damage or fatality may occur from gross overexposure.

Inhalation may cause irritation of mucous membranes with upper respiratory and bronchial irritation.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

SECTION 4: FIRST AID MEASURES

EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove any contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse.

INGESTION: If swallowed, do NOT induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

INHALATION: If inhaled, immediately remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically and supportively.

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SECTION 5: FIRE-FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Reacts with most metals in the presence of moisture, liberating extremely flammable hydrogen gas. Runoff from fire control or dilution water may cause pollution.

EXTINGUISHING MEDIA: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

FLASH POINT: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

Explosion Limits, Lower: Not available

Explosion Limits, Upper: Not available

NFPA HAZARD CLASSIFICATION (estimated)

HEALTH: 3 **FLAMMABILITY:** 1 **Instability:** 0
OTHER:

SECTION 6: ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation

SECTION 7: HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Use with adequate ventilation. Discard contaminated shoes.

Storage: Keep container closed when not in use. Store in a cool, dry well-ventilated area away from incompatible substances. Corrosives area. Store protected from moisture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

PERSONAL PROTECTIVE EQUIPMENT: Chemical splash goggles and rubber gloves. Wear a butyl rubber acid suit and NIOSH permissible respiratory protection (Meets OSHA's 29 CFR 191-134 and ANSI Z88.2 requirements) if there is a reasonable possibility for exposure.

EXPOSURE GUIDELINES:

High Pure Glycolic Acid – 70% Solution

PEL (OSHA) None Listed

TLV (ACGIH) None Listed

NIOSH None Listed

OSHA Vacated PEL's: Glycolic Acid: No OSHA Vacated PELs are listed for this chemical

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, clean, colorless liquid

ODOR: Negligible

pH AS SUPPLIED: 0.1 @ 25 C (77 F)

BOILING POINT: @ 760 mm Hg

F: 234

C: 112

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FREEZING POINT: Precipitates

F: 50 F

C: 10 C

VAPOR PRESSURE (mmHg): Vapor is water

VAPOR DENSITY (AIR = 1): Vapor is water

SPECIFIC GRAVITY (H₂O = 1): 1.25 g/cm³

F: 77

C: 25

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Reacts with active metals (like sodium), oxidizing agents (such as strong nitric acid), cyanide salts or sulfide salts to produce hydrogen, oxides of nitrogen, hydrogen cyanide, or hydrogen sulfide gases, respectively.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Decomposition will not occur

HAZARDOUS POLYMERIZATION: Polymerization will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS#:

CAS # 79-14-1: MC5250000

LD50/LC50 :

Draize test, rabbit, eye : 2 mg Severe

Inhalation, rat: LC50 = 7.1 ug/m³/4H

Oral, rat: LD50 = 1950 mg/kg

Glycolic acid is not a skin sensitizer in animals, ; Inhalation rat LC50:7.7 – 14 mg/L/4H (Hoechst; Inhalation 4H LC50: 3.6 mg/L in male rate (Dupont); Inhalation 4H LC50 :>5.3 mg/L in female rats (Dupont)

Carcinogenicity:

CAS # 79-14-1; Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available

Teratogenicity: No information available

Reproductive Effects: No information available

Mutagenicity: No information available

Neurotoxicity: No information available

Other Studies:

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Fish: Bluegill/Sunfish: 93 mg/l; 24 – 48 H; LC50 Fish: Fathead Minnow: 164 mg/l; 96H; LC50 Water flea Daphnia: 141 mg/l; 48H; EC50 No data available

Environmental: Readily biodegradable. After 7 days, 89.6% is biodegraded (closed bottle test)

Physical: No information available

Other: No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA HAZARD CLASS:

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

RCRA P-Series: None listed

RCRA U-Series: None listed

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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Corrosive Liquid N.O.S.,
(Glycolic Acid)

HAZARD CLASS: 8
UN NUMBER: 1760
Packing Group: II
DOT/IMO Label: Corrosive

CANADA TDG

Corrosive Liquid, N.O.S.,
(Glycolic Acid)

8
1760
II

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA Inventory Status: Reported/Included

TITLE III HAZARD CLASSIFICATIONS SECTION 311, 312

Acute: Yes
Chronic: No
Fire: No
Reactivity: No
Pressure: No

LISTS:

SARA Extremely Hazardous Substance	No
CERCLA Hazardous Material	Yes (See Disposal Section)
SARA Toxic Chemical	No

Canadian Regulations

Class E Corrosive Material
DSL Reported/Included

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

SECTION 16: OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA HMIS Rating	
Health	3
Flammability	0
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with other material or in any process.