



**HERMAN  
CHEMICAL  
TRADING**

99 Trophy Club Drive  
Trophy Club, TX 76262  
817-430-5845 phone  
817-430-5832 fax

**SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION** MSDS No. 131087

**Product Name:** Glycolic Acid Solution, 68% minimum  
**Synonyms:** Hydroxyacetic acid  
**Supplier:** Herman Chemical Trading  
**Address:** 99 Trophy Club Drive  
Trophy Club, TX 76262  
**Business Phone:** 817-430-5845  
**Business Fax:** 817-430-5832

**CHEMTREC Number:**  
For emergencies in the US, call CHEMTREC: 800-424-9300

**SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS**

**Chemical Name** Glycolic acid  
**CAS#** 79-14-1  
**% Weight (Typical)** 68-70%

**SECTION 3: HAZARDS IDENTIFICATION**

**Emergency Overview:** Corrosive. Reproductive effects. Irritant.

**Glycolic Acid:**

**Route of Exposure:** Eyes. Skin. Inhalation. Ingestion.  
**Potential Health Effects:**  
**Eye Contact:** Corrosive, contact causes severe eye burns which may result in permanent tissue and corneal damage.  
**Skin Contact:** Corrosive causes skin burns and severe irritation.  
**Inhalation:** Corrosive. Vapor may cause severe irritation to the respiratory tract.  
**Ingestion:** Risk of internal burns if ingested.  
**Target Organs:** Eyes. Skin. Respiratory system. G.I. Tract. Kidney. Reproductive System.

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#### SECTION 4: FIRST AID MEASURES

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**Eye Contact:** Immediately flush eyes with plenty of water for at least 20 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention if irritation persists, or symptoms of overexposure become apparent.

**Skin Contact:** Immediately wash skin with plenty of water for at least 20 minutes, while removing contaminated clothing and shoes. Get medical attention especially, if irritation develops, persists, or symptoms of overexposure become apparent.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Keep warm. Get immediate medical attention.

**Ingestion:** If swallowed, call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed by medical personnel. Get medical attention.

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#### SECTION 5: FIRE FIGHTING MEASURES

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**Flash Point:** No data

**Extinguishing Media:** Use dry powder or carbon dioxide when fighting a fire involving this material.

**Unsuitable Media:** Water extinguishers are not recommended.

**Protective Equipment:** As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** Use proper personal protective equipment as listed in section 8.

**Spill Cleanup Measures:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Refer to section 13 for disposal requirements.

**Environmental Precautions:** Do not allow material to enter drains or streams.

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#### SECTION 7: HANDLING and STORAGE

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**Handling:** This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data. It should always be handled in an efficient fume hood or equivalent system. The user should consider that the toxicological and physiological properties of many compounds are not yet well determined and that new hazardous products may arise from reactions between chemicals. Care should be taken to prevent any chemical from coming into contact with the skin or eyes and from contaminating personal clothing.

**Storage:** Store in a cool, dry, well ventilated area away from sources of heat and incompatible substances. Keep container tightly closed when not in use. Product is hygroscopic.

**Hygiene Practices:** Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling dust.

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**SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

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<b>Engineering Controls:</b>	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
<b>Skin Protection Description:</b>	Wear suitable protective clothing to prevent contact with skin.
<b>Hand Protection Description:</b>	Wear appropriate protective gloves. Consult glove manufacturers for glove permeability data.
<b>Eye/Face Protection:</b>	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
<b>Respiratory Protection:</b>	A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited to airborne concentrations that are typically within 10 times the exposure limit. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirators use.
<b>Other Protective:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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**SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**

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<b>Physical State/Appearance:</b>	Liquid
<b>Color:</b>	Amber liquid
<b>pH:</b>	2 (50 g/L @ 20°C ( 68°F))
<b>Vapor Pressure:</b>	Water
<b>Flash Point:</b>	>200°F
<b>Boiling Point:</b>	230°-240°F
<b>Melting Point:</b>	N/A
<b>n-Octanol/water partition coefficient:</b>	N/A
<b>Solubility in Water:</b>	Very soluble
<b>Density:</b>	1.25
<b>Molecular Formula:</b>	C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	76.05

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**SECTION 10: STABILITY and REACTIVITY**

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<b>Conditions to Avoid:</b>	High temperatures, flames and sparks. Humidity.
<b>Incompatibilities with Other Materials:</b>	Oxidizing agents.
<b>Possible Decomposition Product:</b>	Carbon monoxide.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Glycolic Acid:** As 100% Glycolic Acid  
**RTECS Number:** MC5250000  
**Eye Effect:** Eye - rabbit: 2 mg; Severe Irritation. (RTECS)  
**Skin Effects:** No data reported in the cited references as of the revision date.  
**Ingestion Effects:** Oral - rat LD50: 1950 mg/kg [Behavioral - somnolence (general depressed activity) Gastrointestinal - other changes Kidney, Ureter, Bladder - other changes] (RTECS); Oral - rat LD50: 4240 mg/kg (Supplier data); Oral - guinea pig LD50: 1920 mg/kg [Behavioral - somnolence (general depressed activity) Gastrointestinal - other changes Kidney, Ureter, Bladder - other changes] (RTECS)  
**Inhalation Effects:** Inhalation - rat LC50: 7100 ug/m<sup>3</sup>/4H [Sense Organs and Special Senses (Olfaction) - effect, not otherwise specified Lungs, Thorax, or Respiration - dyspnea Nutritional and Gross Metabolic - weight loss or decreased weight gain] (RTECS); Inhalation - rat LC50: 7.7 mg/L/4H (Supplier data)  
**Chronic Ingestion Effects:** Oral - rat TDLo: 2480 gm/kg/35W-C Kidney, Ureter, Bladder - other changes Nutritional and Gross Metabolic - weight loss or decreased weight gain Related to Chronic Data - death; Oral - rat TDLo: 52500 mg/kg/3W-C Kidney, Ureter, Bladder - other changes Nutritional and Gross Metabolic - changes in calcium (RTECS)  
**Chronic Inhalation Effects:** Inhalation - rat TCLo: 2 gm/m<sup>3</sup>/6H/2W-I Sense Organs and Special Senses (Olfaction) - effect, not otherwise specified Lungs, Thorax, or Respiration - dyspnea Nutritional and Gross Metabolic - weight loss or decreased weight gain (RTECS)  
**Teratogenicity:** Teratogenic effects. (RTECS)  
**Exposure Limits:** None established.

**SECTION 12 ECOLOGICAL INFORMATION**

**Ecotoxicity:** LC50 Brachydanio rerio 5000 mg/L/96H (supplier data). May be harmful to aquatic organisms because of the pH shift.  
**Bioaccumulation:** Not expected to bioaccumulate and/or bioconcentrate in aquatic organisms.  
**Biodegradation:** Readily biodegradable in soil and water (supplier data).  
**Environmental Stability:** Not expected to cause long-term adverse effects in the environment.

**SECTION 13 DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines, by a licensed disposal company.

**SECTION 14 TRANSPORT INFORMATION**

**DOT Shipping Name:** Corrosive liquid, acidic, organic, n.o.s. (Glycolic acid)  
**DOT Hazard Class:** 8  
**DOT Identification Number:** UN3265  
**DOT Packing Group:** II  
**DOT Subpart E Labeling Requirement:** 8

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**SECTION 15 REGULATORY INFORMATION**

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**Glycolic Acid:**

TSCA 8(b): Inventory Status:	Listed on the TSCA Inventory.
TSCA 12(b): Export Notification	None of the chemicals are listed under TSCA Section 12b.
SARA:	CAS # 79-14-1: acute, chronic.
State:	Glycolic acid is not present on state lists from CA, PA, MN, MA, FL, or NJ. California No Significant Risk Level: None of the chemicals in this product are listed.
Risk Phrases:	R34 Causes burns.
Safety Phrase:	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately

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**SECTION 16 ADDITIONAL INFORMATION**

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**Disclaimer:**

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.