



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

GLYCINE USP

30-1287

Section 1: Identification

Product Name GLYCINE USP
Commercial Name Not available.
Product Use Not available
Restrictions On Use Not available
Product Code 30-1287
Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Not available
CFR 1910.1200
Signal Word NON-HAZARDOUS
Hazard Statement(s) Not available
Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Not available
Response Not available
Storage Not available
Disposal Not available

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Glycine USP (Aminoacetic Acid)
% By Weight 100
CAS# 56-40-6
Molecular Weight 75.07 g/mole
Chemical Formula CH₂NH₂COOH
Synonym(s) Aminoacetic acid Aminoethanoic Acid Glycine

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
			Not available.	

Section 4: First-Aid Measures

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
Skin Contact	Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
Eye Contact	Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Get medical attention.
Symptoms/Effects	
Acute	Not available
Delayed	Not available.
Immediate Medical Attention	Treat symptomatically.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Container may rupture from gas generation in a fire situation. Do not permit dust to accumulate. Dust layers can be ignited by spontaneous combustion or other ignition sources. When suspended in air dust can pose an explosion hazard.

Firefighters Special Equipment and Precautions

Firefighting measures: Keep people away. Isolate fire area and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Fight fire from protected location or safe distance. Consider use of unmanned hose holder or monitor nozzles. Immediately withdraw all personnel from area in case of rising sound from venting safety device or discoloration of the container. Move container from fire area if this is possible without hazard. Hand held carbon dioxide or dry chemical extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents. Special protective equipment for firefighters: Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Personal precautions: Wear suitable protective clothing and gloves. Environmental precautions Environmental precautions: Avoid runoff to waterways and sewers. Methods and material for containment and cleaning up Methods for containment: Prevent further leakage or spillage if safe to do so. Methods for cleaning up: Clear non-emergency personnel from area. Remove with shovel. Transfer to suitable and properly labeled containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling Advice on safe handling Keep container closed when not in use Avoid generation of dust Use only with adequate ventilation. Use respiratory protection where dust may be generated. Do not breathe dust Avoid contact with eyes, skin and clothing Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing. Wash thoroughly after handling FOR INDUSTRIAL USE ONLY. Conditions for safe storage, including any incompatibilities Technical measures and storage conditions Store in a dry place Store in a cool, well ventilated area Keep away from heat, sparks and open flame Incompatible products Avoid contact with oxidizing materials. Avoid unintended contact with acids, bases, halogenated hydrocarbons.

Section 8: Exposure Controls/Personal Protection

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Engineering Controls

Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.

Personal Protection

Eye/face Protection: Dust protection eye glasses. **Hand Protection:** Appropriate chemical resistant gloves should be worn. **Skin and body protection:** Standard work clothing and work shoes. **Respiratory protection:** If exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient. **Other personal protection data:** Eyewash fountains and safety showers must be easily accessible. **Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance	White powder solid.	pH	Not available.
Odor	Odorless.	Vapor Pressure	0.0000171 Pa @ 25 °C
Odor Threshold	Not available	Vapor Density	Not available.
Melting Point	Product decomposes at elev.	Viscosity	Not available.
Freezing Point	Not available	Evaporation Rate	Not available
Boiling Point/Range	Not available		
Decomposition temperature	Not available		
Partition Coefficient: n-octanol/water	Log Kow (Pow): -3.21		
Flash Point	Not available.	Autoignition temperature	Not available
Flammability	Not available	Flammability or Explosive Limits:	
		Lower	Not available
		Upper	Not available
Solubility(ies)	250 g/L @ 25 °C in water.		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable under normal conditions of handling, use and transportation.
Hazardous Polymerization	Not anticipated under normal or recommended handling and storage conditions.
Conditions to Avoid	Avoid temperatures above 180 °C. Product decomposes above melting temperature.
Incompatible Materials	Avoid contact with oxidizing materials. Avoid unintended contact with acids, bases, halogenated hydrocarbons.
Hazardous Decomposition Products	Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Gases are released during decomposition. Carbon dioxide, carbon monoxide, and nitrogen oxides can be expected.

Section 11: Toxicological Information

RTECS	MB7600000
Acute Toxicity	Oral LD50 > 5,000 mg/kg Dermal LD50 No information available Inhalation LC50 No information available
Skin Corrosion/Irritation	Not irritating
Serious Eye Damage/Irritation	Not irritating
Respiratory or Skin Sensitization	Dermal sensitization: non-sensitizing
Germ Cell Mutagenicity	No adverse effect observed (negative)
Carcinogenicity	No adverse effects observed. (oral route)
Reproductive Toxicity	Not available
Routes of Entry	

Eye contact: Not expected to cause eye irritation. Skin contact: Health injuries are not known or expected under normal use. Ingestion: Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations. Inhalation: No adverse effects expected under ordinary conditions of use.

Symptoms Related to Exposure

Not available

Potential Health Effects

Not available.

Target Organ(s) Not available**Section 12: Ecological Information****Ecotoxicity**

Fish LC50 (96 h): > 1000 mg/L (*Oryzias latipes*) Method: OECD Test No. 203: Fish, Acute Toxicity Test Crustacea EC50 (48 h): > 220 mg/L (*Daphnia magna*) Method: Acute daphnia toxicity according to test method OECD 202. Algae/aquatic plants EC50 (72 h): > 1000 mg/L (*Pseudokirchnerella subcapitata*) Method: OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test

Persistence and Degradability

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT) Readily biodegradable. All organic substances contained in the product achieve > 60% BOD/COD or CO₂ liberation, or > 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are reached. Method: OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II).

Bioaccumulative Potential

The bioaccumulation potential is low (log Pow = -3.21) 0.893 L/kg ww (BCFBAF v3.01, Arnot Gobas)

Mobility in Soil

Not expected to adsorb on soil

Other Adverse Effects

Not available

Section 13: Disposal Considerations**Waste Disposal**

Do not put solutions containing this product into sewer systems. Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations.

Disposal of Container

Since empty containers retain product residue, follow label warnings even after container is emptied.

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information**Regulations**

U.S. Federal Regulations CERCLA This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material. CWA (Clean Water Act) This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42). SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. U.S. State Regulations California Proposition 65 U.S. State Right-to-Know Regulations This product does not contain any substances regulated under applicable state right-to-know regulations



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Other

Not available.

Section 16: Other Information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text