



# MATERIAL SAFETY DATA SHEET

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MSDS No. GG 150  
Effective Date March 25, 1998

## SECTION V HEALTH HAZARD DATA

GG 150

### Threshold Limited Value

None established. (ACGIH 1992-93).

### Effects of Overexposure

**INGESTION:** Very low hazard. **EYE CONTACT:** No specific hazard known. May cause transient irritation. **SKIN:** Low hazard for usual laboratory handling. Prolonged or repeated contact may cause dry skin. **INHALATION:** Dust may cause irritation of respiratory tract, coughing, wheezing, respiratory distress and mucous membrane irritation. Exercise appropriate procedures to minimize potential hazards.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Flush with water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, if conscious, give large amounts of water or milk to drink. If vomiting occurs, keep head lower than hips to prevent aspiration. Get immediate medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizing agents. (Sodium hypochlorite, Hypochlorous acid, Nitric acid).
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Hazardous Decomposition Products	Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide. May produce nitrogen oxides.
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Hazardous Polymerization	Conditions to Avoid		Not applicable.
	May Occur	Will Not Occur	
		X	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	<u>Small spills:</u> Dissolve in water and flush to sewer with copious amounts of water. <u>Large spills:</u> Recycle or sweep up and place in a suitable container for incineration.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
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Dispose of in an approved incinerator equipped with an afterburner and scrubber, or contract with a licensed waste disposal agency.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.		
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Ventilation	Local Exhaust	If dusty.	Special	No.
	Mechanical (General)	None needed.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Eye wash station, lab coat, ventilation hood, proper gloves.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid prolonged or repeated contact with skin.  
Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4	Date 3/25/98	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	GLYCINE	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p>	Health	1
Chemical Synonyms	Aminoacetic Acid		Fire	1
Formula	H <sub>2</sub> NCH <sub>2</sub> CO <sub>2</sub> H		Reactivity	0
Unit Size	up to 2.5 Kg.		<b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	
C.A.S. No.	56-40-6	<b>HMIS *</b> 0 1 2 3 4		

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Glycine	100%	None established.

LOW HAZARD FOR USUAL LABORATORY HANDLING; NON-TOXIC.

## SECTION III PHYSICAL DATA

Melting Point (°F)	233°C (452°F) dec.	Specific Gravity (H <sub>2</sub> O = 1)	1.161
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate ( =1)	Non-volatile (NA).
Vapor Density (Air=1)	2.6		
Solubility in Water	25 grams per 100 mL. water at 20°C.		
Appearance & Odor	White crystalline powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC); water spray.
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### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus with full face piece.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. May cause a dust explosion if air concentrations are sufficiently high.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20