MATERIAL SAFETY DATA SHEET

SECTION I NAME

Product: Glycine
Chemical Syonyms: Aminoacetic Acid
Formula: H₂NCH₂CO₂H
Unit Size: up to 2.5 Kg.
C.A.S. No.: 56-40-6

SECTION II INGREDIENTS OF MIXTURES

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

SECTION III PHYSICAL DATA

Melting Point (°F): 233°C (452°F) dec.
Boiling Point (°F): Decomposes.
Vapor Pressure (mm Hg): Negligible as solid.
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.
Flammable Limits in Air: Lower N/A
Extinguisher Media: Carbon dioxide; dry chemical; water spray.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value: None established. (ACGIH 2001).

Effects of Overexposure: INGESTION: Very low hazard. EYE CONTACT: No specific hazard known.

Emergency and First Aid Procedures: INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability: Unstable
Incompatibility (Materials to Avoid): Strong oxidizing agents. (Sodium hypochlorite, Hypochlorous acid, Nitric acid).

Hazardous Decomposition Products: Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide. May produce nitrogen oxides.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Small spills: Dissolve in water and flush to sewer with copious amounts of water. Large spills: Recycle or sweep up and place in a suitable container for incineration.

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. 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: None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.
Ventilation: Local Exhaust If dusty; Special No.
Protective Gloves: Rubber.
Eye Protection: Chemical safety glasses.
Other Protective Equipment: Eye wash station, lab coat, ventilation hood, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing: Keep container tightly closed when not in use. Store in a cool, dry place. Wash thoroughly after handling.
Other Precautions: Avoid prolonged or repeated contact with skin. Remove and wash contaminated clothing.

Revision No. 5 Date: 01/10/07 Approved: James A. Bertsch
Chemical Safety Coordinator: JAB

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