



15 Erie Drive  
Natick, MA 01760  
Phone: 508.655.4336  
Fax: 508.655.2754  
[www.americanbio.com](http://www.americanbio.com)  
In case of emergency call 3E at 800.451.8346

MATERIAL SAFETY DATA SHEET:  
GLYCINE  
CATALOG NUMBER: AB00730

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SECTION I - INGREDIENTS/IDENTITY INFORMATION

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PRODUCT: GLYCINE  
GRADE: ULTRA PURE/USP  
NIOSH (RTECS) NUMBER: MB7600000  
CAS NUMBER: 56-40-6  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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SECTION II - PHYSICAL/CHEMICAL CHARACTERISTICS

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APPEARANCE AND ODOR: WHITE/OFF WHITE CRYSTALLINE POWDER  
FORMULA: C<sub>2</sub>H<sub>5</sub>NO<sub>2</sub>  
FORMULA WEIGHT: 75.07  
BOILING POINT: N/A  
MELTING POINT: 554F,290C  
VAPOR PRESSURE (MM HG/70 F): N/A  
VAPOR DENSITY (AIR=1): N/A \*  
SPECIFIC GRAVITY: 1.16 (H<sub>2</sub>O=1)  
SOLUBILITY IN WATER: APPRECIABLE (>10%)  
PERCENT VOLATILES BY VOLUME: 0

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SECTION III - FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT: N/A  
FLASH POINT METHOD: CC  
LOWER EXPLOSIVE LIMIT: N/A  
UPPER EXPLOSIVE LIMIT: N/A  
EXTINGUISHING MEDIA: USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE. SPECIAL FIRE FIGHTING PROC: USE NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N). OXIDES OF NITROGEN, AMMONIA, CARBON MONOXIDE, CARBON DIOXIDE.

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SECTION IV - REACTIVITY DATA

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STABILITY: YES  
COND TO AVOID (STABILITY): NONE DOCUMENTED.  
MATERIALS TO AVOID: NONE IDENTIFIED.  
HAZARDOUS DECOMP PRODUCTS: OXIDES OF NITROGEN, AMMONIA, CARBON MONOXIDE, CARBON DIOXIDE.  
HAZARDOUS POLY OCCUR: NO  
CONDITIONS TO AVOID (POLY): NOT RELEVANT

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#### SECTION V - HEALTH HAZARD DATA

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ROUTE OF ENTRY - INHALATION: NO

ROUTE OF ENTRY - SKIN: NO

ROUTE OF ENTRY - INGESTION: NO

HEALTH HAZ ACUTE AND CHRONIC: ACUTE AND CHRONIC: NONE IDENTIFIED.

CARCINOGENICITY - NTP: NO

CARCINOGENICITY - IARC: NO

CARCINOGENICITY - OSHA: NO

EXPLANATION CARCINOGENICITY: NOT RELEVANT

SIGNS/SYMPTOMS OF OVEREXP: NONE IDENTIFIED.

MED COND AGGRAVATED BY EXP: NONE IDENTIFIED.

EMERGENCY/FIRST AID PROC: INGESTION: IF SWALLOWED & THE PERSON IS CONSCIOUS, IMMEDIATELY GIVE LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. INHALATION: IF PERSON BREATHE IN LARGE AMOUNTS, MOVE THE EXPOSED PERSON TO FRESH AIR. SKIN: IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH PLENTY OF SOAP & WATER FOR AT LEAST 15 MINUTES. EYES: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

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#### SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

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STEPS IF MATL RELEASED/SPILL: WEAR SUITABLE PROTECTIVE CLOTHING. CAREFULLY SWEEP UP AND REMOVE.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

PRECAUTIONS-HANDLING/STORING: KEEP CONTAINER TIGHTLY CLOSED. SUITABLE FOR ANY GENERAL CHEMICAL STORAGE AREA. OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.

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#### SECTION VII - CONTROL MEASURES

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RESPIRATORY PROTECTION: NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, USE AN APPROPRIATE NIOSH/MSHA APPROVED RESPIRATOR OR DUST MASK.

VENTILATION: USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP FUME OR DUST LEVELS AS LOW AS POSSIBLE.

PROTECTIVE GLOVES: IMPERVIOUS GLOVES (FP N).

EYE PROTECTION: CHEMICAL SAFETY GOGGLES (FP N).

OTHER PROTECTIVE EQUIPMENT: LAB COAT.

WORK HYGIENIC PRACTICES: WASH THOROUGHLY AFTER HANDLING.

SUPL. SAFETY & HEALTH DATA: NONE SPECIFIED BY MANUFACTURER.

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#### SECTION VIII - LABEL DATA

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LABEL REQUIRED: YES

COMMON NAME: GLYCINE

SIGNAL WORD: CAUTION!

PROTECT EYE: YES

PROTECT SKIN: YES

PROTECT RESPIRATORY: YES

STORE DRY AT ROOM TEMPERATURE

REVISION DATE 09/01/05