

Safety Data Sheet

File version: 1

Glycine/Sodium hydroxide, 1M, pH 11.0

SDS Date: 29 Nov 2016

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 1M Glycine/Sodium hydroxide pH 11.0**SYNONYMS:** Aminoethanoic acid
Aminoacetic acid
Glycocoll**PRODUCT CODES:** 1008175
1008176**MANUFACTURER:** Rigaku Reagents
ADDRESS: 9009 New Trails Drive
The Woodlands, TX 77381
USA**PHONE:** +1 (281) 362-2300**EMAIL:** ReagentOrders@Rigaku.com**CHEMICAL NAME:** Glycine**CHEMICAL FAMILY:** Amino acid**CHEMICAL FORMULA:** C₂H₅NO₂**PREPARED BY:** Rigaku Reagents**SECTION 1 NOTES:**

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:**OSHA HAZARDS:** No known OSHA hazards. Not a dangerous substance according to GHS.**POTENTIAL HEALTH EFFECTS:****EYES:** May cause eye irritation.**SKIN:** May be harmful if absorbed through skin. May cause skin irritation.**INGESTION:** May be harmful if swallowed.**INHALATION:** May be harmful if inhaled. May cause respiratory tract irritation.**SECTION 2 NOTES:**

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Glycine, Sodium hydroxide, deionized water**GLYCINE:**

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>
56-40-6	6-9	

SODIUM HYDROXIDE:

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>
1310-73-2		1-5

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes with water as a precaution.**SKIN:** Wash off with soap and plenty of water.

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INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth with water.

INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT:

F: No data available

C: No data available

AUTOIGNITION TEMPERATURE:

F: No data available

C: No data available

NFPA HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

HMS HAZARD CLASSIFICATION

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x)

SECTION 5 NOTES: Not flammable or combustible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid breathing vapors, mist or gas.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Soak up with inert absorbent material and dispose of appropriately. Keep in suitable, closed containers for disposal.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep container tightly closed in a dry and well-ventilated place.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

EYE PROTECTION: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SKIN PROTECTION: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the

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specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear, colorless

PHYSICAL STATE: liquid, clear

pH AS SUPPLIED: 10.8-11.2

pH (Other): No data available

BOILING POINT:

F: No data available

C: No data available

FREEZING POINT:

F: No data available

C: No data available

VAPOR PRESSURE (mmHg): No data available

@

F: No data available

C: No data available

VAPOR DENSITY (AIR = 1): No data available

SPECIFIC GRAVITY (H₂O = 1): No data available

EVAPORATION RATE: No data available

SOLUBILITY IN WATER: soluble

MOLECULAR WEIGHT: 75.07 g mol⁻¹

VISCOSITY: No data available

@

F: No data available

C: No data available

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID (STABILITY): No data available

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x). Other decomposition products - no data available

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

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ORAL LD50: Rat - 7,930 mg/kg
INHALATION LC50: No data available.
DERMAL LD50: No data available.

SKIN CORROSION/IRRITATION: No data available.

SERIOUS EYE DAMAGE/EYE IRRITATION: No data available.

RESPIRATORY OR SKIN SENSITIZATION: No data available.

GERM CELL MUTAGENICITY: No data available.

CARCINOGENICITY:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

REPRODUCTIVE TOXICITY: No data available.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY

No data available.

PERSISTENCE AND DEGRADABILITY

No data available.

BIOACCUMULATIVE POTENTIAL

No data available.

MOBILITY IN SOIL

No data available

PBT AND vPvB ASSESSMENT

No data available

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT: Offer surplus and non-recyclable solutions to a licensed disposal company.

CONTAMINATED PACKAGING: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Not dangerous goods

WATER TRANSPORTATION

Not dangerous goods

AIR TRANSPORTATION

Not dangerous goods

SECTION 14 NOTES:

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SECTION 15: REGULATORY INFORMATION

OSHA HAZARDS: Target Organ Effect**SARA 302 COMPONENTS:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313 COMPONENTS:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**SARA 311/312 HAZARDS:** No SARA hazards**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:**

No components are subject to the Massachusetts Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS:

	<u>CAS-No.</u>
Glycine	56-40-6
Sodium hydroxide	1310-73-2
Water	7732-18-5

NEW JERSEY RIGHT TO KNOW COMPONENTS:

	<u>CAS-No.</u>
Glycine	56-40-6
Sodium hydroxide	1310-73-2
Water	7732-18-5

CALIFORNIA PROP. 65 COMPONENTS: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.**SECTION 15 NOTES:**

SECTION 16: OTHER INFORMATION

DISCLAIMER: The above information is believed to be correct but does not necessarily include all information and should be used only as a guide. The information in this document is based on our current knowledge and applies to the product with regard to appropriate safety precautions. This document does not represent any guarantee of the properties of the product. Rigaku Reagents will not be held liable for any damage resulting from handling or contact with the above product.