

SECTION 1: IDENTIFICATION**1.1. Product Identifier**

Product Form: Liquid

Product Name: 10 mM Glycine (pHs 1.5 – 2.5)

Synonyms: 10 mM Aminoacetic acid, 10 mM Glycine

1.2. Intended Use of the Product**1.3. Name, Address, and Telephone of the Responsible Party**

Company
Carterra Inc.
825 N 300 W
Suite C309
Salt Lake City, UT 84103
844.642.7635 x736

1.4. Emergency Contact Information

Emergency Number: +1-703-527-3887 (CHEMTREC)

1.5. Email of Competent Person: a.bawden@carterra-bio.com**1.6. Reach Registration Number: N/A****SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****GHS-US Classification**

This Substance is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

2.2. Label Elements**GHS-US Labeling**

Hazard Pictograms (GHS-US) : No information available

Signal Word (GHS-US) : No information available

Hazard Statements (GHS-US) : No information available

Precautionary Statements (GHS-US) : No information available

2.3. Other Hazards

Not regulated

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substance****3.2. Mixture**

Name	CAS No.	%	Classification
Glycine	56-40-6	0.3 – 0.5	None Specified
Water	7732-18-5	99.5-99.8	None Specified

SECTION 4: FIRST AID MEASURES**4.1. Description of First-aid Measures**

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show label where possible)

First-aid Measures After Inhalation: Move to fresh air. If not breathing, give artificial respiration.

First-aid Measures After Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

First-aid Measures After Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

First-aid Measures After Ingestion: Rinse mouth

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: No information available

Symptoms/Injuries After Inhalation: No information available

Symptoms/Injuries After Skin Contact: No information available

Symptoms/Injuries After Eye Contact: No information available

Symptoms/Injuries After Ingestion: No information available

Chronic Symptoms: No information available

4.3. Indication of Any Immediate Medical and Special Treatment Needed

No information available

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: No information available

5.2. Special Hazards Arising from the Substance or Mixture

Fire Hazard: None

Explosion Hazard: None

Reactivity: None

5.3. Advice for Firefighters

Precautionary Measures: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Firefighting Instructions: No information available

Protection During Firefighting: No information available

Hazardous Combustion Products: Carbon oxides, Ammonia, Nitrogen oxides

Other Information: No information available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment, and Emergency Procedures

General Measures: Ensure adequate ventilation, especially in confined areas

6.1.1. For Non-Emergency Personnel

Protective Equipment: No information available

Emergency Procedures: No information available

6.1.2. For Emergency Personnel

Protective Equipment: No information available

Emergency Procedures: No information available

6.2. Environmental Precautions

6.3. Methods and Materials for Containment and Cleanup

For Containment: Prevent further leakage or spillage if safe to do so

Methods for Cleanup: Pick up and transfer to properly labeled containers

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: No information available

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Hygroscopic

7.2. Conditions for Safe Storage, Including any Incompatibilities

Technical Measures: No information available

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place

Incompatible Products: Strong oxidizing agents

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Component	CAS-No.	Value	Control Parameters
Glycine	56-40-6	No information available	No information available
Water	7732-18-5	Not Established	Not Established

8.2. Exposure Controls and Risk Management Measures

Appropriate Engineering Controls	: Showers Eyewash stations Ventilation systems
Materials for Protective Clothing	: No information available
Hand Protection	: Wear protective gloves
Eye Protection	: Avoid contact with eyes. Safety glasses with side-shields
Skin and Body Protection	: Wear protective clothing
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Environmental Exposure Controls	: No information available
Other Information	: No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear
Odor	: No information available
Odor Threshold	: No information available
pH	: 1.48 – 2.52
Evaporation Rate	: No information available
Melting Point	: No information available
Freezing Point	: No information available
Boiling Point	: No information available
Flash Point	: No information available
Auto Ignition Temperature	: No information available
Decomposition Temperature	: No information available
Flammability (solid, gas)	: No information available
Vapor Pressure	: No information available
Relative Vapor Density at 20° C	: No information available
Relative Density	: No information available
Specific Gravity	: No information available
Solubility	: Miscible with water
Partition Coefficient: N-Octanol/Water	: No information available
Viscosity	: No information available

9.2. Other Information

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** No information available
- 10.2. Chemical Stability:** Stable under recommended storage conditions.
- 10.3. Possibility of Hazardous Reactions:** None under normal processing
- 10.4. Conditions to Avoid:** Extremes of temperature and direct sunlight
- 10.5. Incompatible Materials:** Strong oxidizing agents
- 10.6. Hazardous Decomposition Products:** Carbon oxides, Ammonia, Nitrogen oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects**Acute Toxicity:**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycine	= 7930 mg/kg (rat)	None specified	None Specified

Skin Corrosion/Irritation: No information available**pH:** No information available**Serious Eye Damage/Irritation:** No information available**pH:** No information available**Respiratory or Skin Sensitization:** No information available**Germ Cell Mutagenicity:** No information available**Carcinogenicity:** No information available**IARC:** No information available**NTP:** No information available**OSHA:** No information available**Reproductive Toxicity:** No information available**Specific Target Organ Toxicity (Single Exposure):** No information available**Specific Target Organ Toxicity (Repeated Exposure):** No information available**Aspiration Hazard:** No information available**Symptoms/Injuries After Inhalation:** No information available**Symptoms/Injuries After Skin Contact:** No information available**Symptoms/Injuries After Eye Contact:** No information available**Symptoms/Injuries After Ingestion:** No information available**Chronic Symptoms:** No information available**SECTION 12: ECOLOGICAL INFORMATION****Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability:** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available. •**Additional ecological information:** •**General notes:** N/A**Results of PBT and vPvB assessment** • PBT: Not applicable. • vPvB: Not applicable.**Other adverse effects:** No further relevant information available**SECTION 13: DISPOSAL CONSIDERATIONS****Waste treatment methods:****Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach water system. Offer surplus and non-recyclable solutions to a licensed disposal company**Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary, with cleansing agents.

SECTION 14: TRANSPORT INFORMATION

UN-Number · Not Regulated

UN proper shipping name: Glycine

DOT: Glycine

Transport/Additional information:

DOT Quantity limitations: Not Dangerous Goods

IMDG Limited quantities: Not Regulated

UN "Model Regulation": Not Dangerous Goods

SECTION 15: REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): None of the ingredients is listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 · Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

Chemicals known to cause developmental toxicity: None of the ingredients is listed.

Carcinogenic categories ·

EPA (Environmental Protection Agency) None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. ·

GHS label elements

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label). Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Quality Assurance.

Contact: · Date of preparation / last revision

Creation date for SDS 06/19/2019.

review SDS for accuracy. 11/3/2021·

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative

Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit Acute Tox. 4

Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1