# Safety data sheet

Glycine, Molecular Biology Grade

| | |
|---|---|
| Product name<br>Glycine, Molecular Biology Grade | Catalog no.<br>GL05, GL10 |
| Synonyms<br>Glycine | Revision date<br>- |
| CAS no.<br>56-40-6 | Format version / date<br>1.0 / 24 October 2026 |

## 01 PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product identifier | Glycine, Molecular Biology Grade |
| Product code | GL05, GL10 |
| CAS number | 56-40-6 |
| EC number | 200-272-2 |
| Recommended use | For research use only. Not intended for diagnostic or therapeutic use. |
| Supplier | EcoTech Biotechnology |
| Website | www.ecotechbiotech.com |
| Address | Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10 Yakutiye Erzurum Türkiye |
| Telephone | 0090 544 327 34 97 |
| SDS contact | info@ecotechbiotech.com |
| Emergency telephone | 0090 544 327 34 97 |
| Available | Monday-Saturday/08:00-20:00/GMT+3 |
| Languages | Turkish/English |
| Outside these hours | Contact: info@ecotechbiotech.com |

## 02 HAZARDS IDENTIFICATION

| | |
|---|---|
| Classification | Not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP). Physical, health and environmental classification criteria are not met. |
| Label elements | No hazard labeling required. |
| Symbols / pictograms | None |
| Signal word | None |
| Hazard statements | None |
| Precautionary statements – Prevention | None |
| Precautionary statements – Response | None |
| Other hazards | Not considered PBT or vPvB. No known or suspected endocrine disruptors. |

# Composition & response

Glycine, Molecular Biology Grade | SAFETY DATA SHEET / SECTIONS 03-05

## 03 COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|---|---|
| Product name | Glycine, Molecular Biology Grade |
| Synonyms | Glycine |
| Concentration | - |
| Formula | - |
| Molecular weight | - |
| Composition | Glycine (CAS 56-40-6, EC 200-272-2). Substance; no hazardous ingredients listed. |

## 04 FIRST AID MEASURES

### 4.1 Description of first aid measures

| | |
|---|---|
| Eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do; continue rinsing. |
| Skin contact | Rinse affected skin with water. Seek medical advice if irritation persists. |
| Inhalation | Move to fresh air. Consult a physician if symptoms occur. |
| Ingestion | Rinse mouth. If feeling unwell, obtain medical advice. |
| Self-protection of first aider | Use personal protective equipment as required. |
| Most important symptoms / effects | No specific symptoms reasonably foreseeable under normal conditions of use. |
| Immediate medical attention / treatment | Treat symptomatically. |

## 05 FIREFIGHTING MEASURES

| | |
|---|---|
| Suitable extinguishing media | Water spray, carbon dioxide (CO2), foam or dry chemical. |
| Unsuitable extinguishing media | No data available |
| Special hazards arising from the substance or mixture | Thermal decomposition may generate irritating gases and vapors. |
| Explosion data | Mechanical impact: No information available. Static discharge: No information available. |
| Advice for firefighters | Use suitable protective clothing and self-contained breathing apparatus if necessary. |

# Safe use & protection

Glycine, Molecular Biology Grade | SAFETY DATA SHEET / SECTIONS 06-08

## 06 ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | Ensure adequate ventilation and use appropriate personal protective equipment. |
| Environmental precautions | Avoid uncontrolled release to the environment. |
| Methods and materials for containment and cleaning up | Collect the spilled material in a suitable closed container; avoid raising dust. |
| Reference to other sections | See sections 8 and 13 for exposure controls and disposal. |

## 07 HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Follow good laboratory practices. Avoid eye, skin and dust contact. |
| Conditions for safe storage | Keep the container tightly closed in a cool, dry, well-ventilated area. |
| Container labeling | Store in a properly labeled container. |

## 08 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

| | |
|---|---|
| Engineering measures | Provide adequate ventilation, especially in confined spaces. |
| Hygiene measures | Do not eat, drink or smoke while using the product. Wash hands after handling. |
| Eye / face protection | Wear safety goggles. |
| Hand protection | Wear compatible chemical-resistant gloves. |
| Skin and body protection | Wear a laboratory coat and appropriate protective clothing. |
| Respiratory protection | Respiratory protection may be required when ventilation is inadequate or dust is generated. |

# Material properties

Glycine, Molecular Biology Grade | SAFETY DATA SHEET / SECTIONS 09-10

## 09 PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | White powder / solid |
| Odor | No data available |
| Odor threshold | No data available |
| pH | No data available |
| Melting point / freezing point | No data available |
| Initial boiling point and boiling range | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper / lower flammability or explosive limits | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Solubility(ies) | No data available |
| Partition coefficient: n-octanol / water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |

## 10 STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | Stable under normal conditions. |
| Chemical stability | Stable when kept in a cool, dry place. |
| Possibility of hazardous reactions | No hazardous reaction reported. |
| Conditions to avoid | No data available |
| Incompatible materials | No data available |
| Hazardous decomposition products | No data available |

# Health & environment

Glycine, Molecular Biology Grade | SAFETY DATA SHEET / SECTIONS 11-13

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

| | |
|---|---|
| Acute toxicity | No data available |
| Skin corrosion / irritation | Available data do not support classification. |
| Serious eye damage / eye irritation | Available data do not support classification. |
| Carcinogenicity | No known carcinogenic chemicals identified. |
| Reproductive toxicity | Available data do not support classification. |
| STOT - SE | Available data do not support classification. |
| STOT - RE | Available data do not support classification. |
| Aspiration hazard | Available data do not support classification. |

### 11.2 Potential health effects

Ingestion: No significant hazard expected under normal use.
Inhalation: No significant hazard expected under normal use; dust may cause discomfort.
Skin: No significant hazard expected.
Eyes: No significant hazard expected; rinse if exposed.

### 11.3 Additional information

No additional information is available

## 12 ECOLOGICAL INFORMATION

| | |
|---|---|
| Ecotoxicity | Avoid discharge into drains. |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | Water-soluble; may be mobile in soil and water systems. |
| Results of PBT and vPvB assessment | Not considered PBT or vPvB. |

## 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

| | |
|---|---|
| Product | Dispose of in accordance with applicable local regulations; use a licensed waste contractor if required. |
| Contaminated packaging | Dispose of as unused product; do not reuse contaminated containers. |

# Transport & reference

Glycine, Molecular Biology Grade | SAFETY DATA SHEET / SECTIONS 14-16

## 14 TRANSPORT INFORMATION

| Mode | UN no. | UN proper shipping name | Hazard class | Packing group | Environmental hazard |
|---|---|---|---|---|---|
| DOT (US) | - | Not regulated for transport. | - | - | No transport environmental hazard indicated. |
| IMDG | - | Not regulated for transport. | - | - | No transport environmental hazard indicated. |
| IATA | - | Not regulated for transport. | - | - | No transport environmental hazard indicated. |

| | |
|---|---|
| Special precautions for user | No data available |
| Transport in bulk (MARPOL / IBC) | Not applicable |

## 15 REGULATORY INFORMATION

| | |
|---|---|
| Safety, health and environmental regulations / legislation | No product-specific regulatory restrictions stated. |
| Environmental hazards | Not classified as environmentally hazardous. |
| Chemical Safety Assessment | A chemical safety assessment has not been conducted. |

## 16 OTHER INFORMATION

**Key to abbreviations and acronyms**

| | |
|---|---|
| STOT-SE | Specific Target Organ Toxicity - Single Exposure |
| STOT-RE | Specific Target Organ Toxicity - Repeated Exposure |
| PBT | Persistent Bioaccumulative and Toxic |
| vPvB | very Persistent very Bioaccumulative and toxic |
| ADR | European Agreement concerning the international carriage of Dangerous goods by Road |
| CAS | Chemical Abstracts Service |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime code for Dangerous Goods |
| REACH | Registration, Evaluation, Authorization and restriction of Chemicals |
| RID | Regulations concerning the International transport of Dangerous goods by rail |