MATERIAL SAFETY DATA SHEET
GLYCYL-L TYROSINE

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Glycyl-L-Tyrosine
Synonyms: Gly-Tyr
Company Identification: Sisco Research Laboratories Pvt. Ltd.
Andheri (East), Mumbai – 400 099.
Tel : +91 22 2687 2601
Fax : +91 22 2687 8241
Website : www.srlchem.com

2 - COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>658-79-7</td>
<td>Glycyl-L-Tyrosine</td>
<td>99%</td>
<td>211-525-1</td>
</tr>
</tbody>
</table>

3 - HAZARDS IDENTIFICATION

Special Indication Of Hazards To Humans And The Environment
Not hazardous according to Directive 67/548/EEC.

4 - FIRST AID MEASURES

Eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
Skin: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Notes to Physician:

5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Specific Hazard(s): Emits toxic fumes under fire conditions.
Special Protective Equipment For Firefighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - ACCIDENTAL RELEASE MEASURES

Personal Precaution
Procedures To Be Followed  
In Case Of Leak Or Spill: Evacuate area.
Procedure(S) Of Personal Precaution(S): Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Methods For Cleaning Up: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 – HANDLING AND STORAGE
Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage: Keep tightly closed. Store at -20°C

8 – EXPOSURE CONTROLS, PERSONAL PROTECTION
Engineering Controls: Mechanical exhaust required.
General Hygiene Measures: Wash thoroughly after handling.
Personal Protective Equipment
Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.
Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

9 - PHYSICAL AND CHEMICAL PROPERTIES
Physical State: Solid
Molecular Formula: C₁₁H₁₄N₂O₄
Molecular Weight: 238.20

10 - STABILITY AND REACTIVITY
Stability: Stable.
Materials to Avoid: Strong acids, Strong bases.
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.
Hazardous Polymerization: Will not occur

11 - TOXICOLOGICAL INFORMATION
Route Of Exposure
Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: Material may be irritating to mucous membranes and
upper respiratory tract. May be harmful if inhaled.

**Ingestion:**
May be harmful if swallowed.

**Conditions Aggravated By Exposure:**
The toxicological properties have not been thoroughly investigated.

**12 - ECOLOGICAL INFORMATION**
No data available.

**13 - DISPOSAL CONSIDERATIONS**
**Substance Disposal:** Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

**14 - TRANSPORT INFORMATION**

<table>
<thead>
<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-hazardous</td>
<td>Non-hazardous</td>
<td>Non-hazardous</td>
</tr>
</tbody>
</table>

**15 - REGULATORY INFORMATION**
Not hazardous according to Directive 67/548/EEC.

**16 - ADDITIONAL INFORMATION**

SISCO RESEARCH LABORATORIES provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.