MATERIAL SAFETY DATA SHEET
GLYCINE ETHYL ESTER HYDROCHLORIDE

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Glycine ethyl ester hydrochloride
Synonyms: Ethyl glycinate hydrochloride
Company Identification: Sisco Research Laboratories Pvt. Ltd.
Andheri (East), Mumbai – 400 099.
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Fax: +91 22 2687 8241
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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>623-33-6</td>
<td>Glycine ethyl ester hydrochloride</td>
<td>99%</td>
<td>210-787-4</td>
</tr>
</tbody>
</table>

3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**
Not available

**Potential Health Effects**
Eye: May cause eye irritation.
Skin: May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.
Chronic:

4 - FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately. Get medical aid if cough or other symptoms appear.

**Notes to Physician:** Treat symptomatically and supportively.
### 5 - FIRE FIGHTING MEASURES

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

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

### 6 - ACCIDENTAL RELEASE MEASURES

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

### 7 – HANDLING AND STORAGE

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

### 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

| CAS#        | 623-33-6 |

**Personal Protective Equipment**

| Eyes:        | Wear chemical splash goggles. |
| Skin:        | Wear appropriate protective gloves to prevent skin exposure. |
| Clothing:    | Wear appropriate protective clothing to prevent skin exposure. |

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

| Physical State:     | Solid          |
| Melting Point:      | 145 - 148 deg C |
| Molecular Formula:  | C₄H₉NO₂.HCl    |
| Molecular Weight:   | 139.58         |

### 10 - STABILITY AND ReactIVITY

| Chemical Stability: | Stable under normal temperatures and pressures. |
| Conditions to Avoid: | Incompatible materials. |
**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide, ethyl alcohol.

**Hazardous Polymerization:** Will not occur.

### 11 - TOXICOLOGICAL INFORMATION

**RTECS#:** CAS# 623-33-6: MC0525000

**LD50/LC50:** RTECS: Not available.

**Carcinogenicity:** Glycine ethyl ester hydrochloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** The toxicological properties have not been fully investigated.

### 12 - ECOLOGICAL INFORMATION

Not available

### 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

### 14 - TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
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</table>

### 15 - REGULATORY INFORMATION

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Hazard Symbols:** Not available

**Risk Phrases:**

**Safety Phrases:** S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger/Protection)**

**CAS# 623-33-6:** 0

**Canada**

**US Federal**

**TSCA**

CAS# 623-33-6 is listed on Canada's DSL List

CAS# 623-33-6 is listed on the TSCA Inventory.

### 16 - ADDITIONAL INFORMATION

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