SAFETY DATA SHEET
according to Regulation (EG) no 1907/2006
Generic EU MSDS – No country specific data
REVISION DATE: 2014-02-06

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
   Product name: Glycine-HCl buffer
   Article number: 12-9121

1.2 Relevant identified uses of the substance or mixture, and uses advised against
   Identified uses: Laboratory chemical

1.3 Details of the supplier of the safety data sheet
   Company: Medicago AB
   Daanmark Berga 13
   755 98 Uppsala
   Telephone: +46 (0)18 56 11 80
   Facsimilie: +46 (0)18 56 11 88
   E-mail address: info@medicago.se

1.4 Emergency telephone number
   Emergency telephone number (Sweden): Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture
   Classification according to Regulation (EG) Nr 1272/2008 (EU-GHS/CLP)
   Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements
   Labelling according to Regulation (EC) Nr 1272/2008 (EU-GHS/CLP)
   The product does not need to be labelled in accordance with EC directives.
   Signal word none
   Hazard statement(s) none
   Precautionary statement(s) none
   Complementary hazard information No data available

2.3 Other hazards
   No data available

3. Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS-no.</th>
<th>EC-no.</th>
<th>Classification according to constitution (EG) no 1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycine</td>
<td>56-40-6</td>
<td>200-272-2</td>
<td>This substance is not classified in the Annex I of Directive 67/548/EEC/</td>
</tr>
<tr>
<td>Glycine hydrochloride</td>
<td>6000-43-7</td>
<td>227-841-8</td>
<td>This substance is not classified in the Annex I of Directive 67/548/EEC/</td>
</tr>
</tbody>
</table>
## 4. First aid measures

### 4.1 Description of first aid measures

<table>
<thead>
<tr>
<th>Condition</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>If swallowed</td>
<td>Do NOT induce vomiting. Contact medical personnel/poison center. Give water or milk to drink. Never give anything by mouth to an unconscious person.</td>
</tr>
<tr>
<td>If inhaled</td>
<td>Move person to fresh air. If symptoms persist, call a physician.</td>
</tr>
<tr>
<td>In case of skin contact</td>
<td>Wash skin with large amounts of water and wash off with soap. If symptoms persist, call a physician.</td>
</tr>
<tr>
<td>In case of eye contact</td>
<td>Flush eyes with water as a precaution.</td>
</tr>
<tr>
<td>General advice</td>
<td>Show this safety data sheet to the doctor in attendance.</td>
</tr>
</tbody>
</table>

### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5. Fire fighting measures

### 5.1 Extinguishing media

- Dry chemical, water spray, alcohol-resistant foam or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

- Carbon oxides, nitrogen oxides, hydrogen chloride gas.

### 5.3 Advice for fire fighters

- Wear self contained breathing apparatus for fire fighting if necessary. Use personal protective equipment.

### 5.4 Further information

- No data

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation, especially in confined areas.

### 6.2 Environmental precautions

- Do not let product enter drains.

### 6.3 Methods and material for containment and cleaning up

- Use mechanical handling equipment. Keep in suitable, closed containers for disposal. Do not create dust. Clean contaminated surface thoroughly.

### 6.4 Reference to other sections

- See section 7 and 8.

## 7. Handling and storage

### 7.1 Precautions for safe handling

- The usual precautions for handling chemicals should be observed. Avoid any direct contact with the material. Avoid creating dust and aerosols.

### 7.2 Conditions for safe storage, including any incompatibilities

- Keep containers tightly closed in a dry, well ventilated place.

### 7.3 Specific end use(s)

- No data available
8. Exposure controls/personal protection

8.1 Control parameters
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls
Appropriate engineering controls
Eye/face protection
Safety glasses
Skin protection
Protective synthetic gloves. Gloves must be inspected prior to use.
Body Protection
Complete suit protecting against chemicals
Respiratory protection
Do not breathe dust. In case of dust or aerosol formation use respirator with an approved filter.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Form: powder
- Odour: no data available
- Odour threshold: no data available
- pH: 3.0
- 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
- Vapour pressure: no data available
- Vapour density: no data available
- Relative density: no data available
- Water solubility: soluble
- 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

9.2 Other information
No data available

10. Stability and Reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
No data available

10.3 Possibility of hazardous reactions
No dangerous reactions known

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In case of fire hazardous decomposition products may be produced such as carbon oxides, nitrogen oxides (NOx).
11. Toxicological information

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity
No data available

Skin corrosion/irritation
Caustic effect on skin and mucous membranes.

Serious eye damage/ eye irritation
No data available

Respiratory or skin sensitization
No sensitizing effects known

Germ cell mutagenicity
No data available

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

Reproductive toxicity
No data available

Specific target organ toxicity – single exposure
No data available

Specific target organ toxicity – repeated exposure
No data available

Respiratory or skin sensitization
No data available

Aspiration hazard
No data available

Potential health effects

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>May be harmful if inhaled. May cause respiratory tract irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
<tr>
<td>Skin</td>
<td>May be harmful if absorbed through skin. May cause skin irritation.</td>
</tr>
<tr>
<td>Eyes</td>
<td>May cause eye irritation.</td>
</tr>
</tbody>
</table>

12. Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects
No data available

13. Disposal considerations

13.1 Waste treatment methods
In accordance with local and national regulations. Do not dispose waste into sewer. Do not dispose together with household waste.
### 14. Transport information

<table>
<thead>
<tr>
<th>14.1 UN-number</th>
<th>ADR-RID: -</th>
<th>IMDG: -</th>
<th>IATA: -</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>ADR-RID:</th>
<th>IMDG:</th>
<th>IATA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not dangerous goods</td>
<td>Not dangerous goods</td>
<td>Not dangerous goods</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
<th>ADR-RID:</th>
<th>IMDG:</th>
<th>IATA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not dangerous goods</td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4 Packaging group</th>
<th>ADR-RID:</th>
<th>IMDG:</th>
<th>IATA:</th>
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</thead>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5 Environmental hazards</th>
<th>ADR-RID:</th>
<th>IMDG, water pollutant:</th>
<th>IATA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.6 Special precautions for user</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</th>
<th>No data available</th>
</tr>
</thead>
</table>

### 15. Regulatory information

<table>
<thead>
<tr>
<th>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</th>
<th>For this product a chemical safety assessment was not carried out</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>15.2 Chemical safety assessment</th>
<th>No data available</th>
</tr>
</thead>
</table>

### 16. Other information

This information is based on the current state of knowledge.