Material Safety Data Sheet

Beta-Alanine MSDS

Section 1: Chemical Product and Company Identification

**Product Name:** Beta-Alanine
**Catalog Codes:**
CAS#: 107-95-9
RTECS: UA2369200
**TSCA:**
**CI#:** Not applicable.
**Synonym:** beta-Alanine
**Chemical Name:** beta-Alanine
**Chemical Formula:** C₃H₇NO₂
**Contact Information for Emergency:** (0086) 551 65418678

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Section 2: Composition and Information on Ingredients

**Composition:**

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS # %</th>
<th>By Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beta-Alanine</td>
<td>107-95-9</td>
<td>100</td>
</tr>
</tbody>
</table>

**Toxicological Data on Ingredients:** Not applicable.

Section 3: Hazards Identification
**Classification of the substance or mixture**
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

**Label elements**
This substance is not classified as dangerous according to Directive 67/548/EEC.

**Other hazards** - none

### Section 4: First Aid Measures

**Description of first aid measures**
- If inhaled
  - If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- In case of skin contact
  - Wash off with soap and plenty of water.
- In case of eye contact
  - Flush eyes with water as a precaution.
- If swallowed
  - Never give anything by mouth to an unconscious person. Rinse mouth with water.

**Most important symptoms and effects, both acute and delayed**
This substance is a cholinoreceptor antagonist at the neuromuscular junction. This substance possesses curare-like properties and should be handled with extreme care.

**Indication of any immediate medical attention and special treatment needed**
No data available

### Section 5: Fire and Explosion Data

**Extinguishing media**
- Suitable extinguishing media
  - Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**
- Carbon oxides, nitrogen oxides (NOx)

**Advice for firefighters**
- Wear self-contained breathing apparatus for fire fighting if necessary.

**Further information**
No data available

### Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**
- Avoid dust formation. Avoid breathing vapors, mist or gas.

**Environmental precautions**
- Do not let product enter drains.

**Methods and materials for containment and cleaning up**
- Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections**
- For disposal see section 13.
Section 7: Handling and Storage

Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Specific end uses no data available

Section 8: Exposure Controls/Personal Protection

Control parameters
Components with workplace control parameters

Exposure controls
Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment
Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties
### Section 10: Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Data Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>no data available</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>no data available</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>no data available</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>no data available</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Strong oxidizing agents</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td></td>
</tr>
<tr>
<td>Other decomposition products</td>
<td>no data available</td>
</tr>
</tbody>
</table>

### Section 11: Toxicological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Data Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information on toxicological effects</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>no data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>no data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>no data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td></td>
</tr>
<tr>
<td>IARC:</td>
<td>No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td></td>
</tr>
</tbody>
</table>
### Specific target organ toxicity - repeated exposure
no data available

### Aspiration hazard
no data available

### Potential health effects
**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

### Signs and Symptoms of Exposure
This substance is a cholinoreceptor antagonist at the neuromuscular junction. This substance posses curare-like properties and should be handled with extreme care.

### Additional Information
RTECS: Not available

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### Section 12: Ecological Information

<table>
<thead>
<tr>
<th>Category</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Persistence and degradability</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Mobility in soil</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Results of PBT and vPvB assessment</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Other adverse effects</strong></td>
<td>no data available</td>
</tr>
</tbody>
</table>

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### Section 13: Disposal Considerations

**Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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### Section 14: Transport Information

**UN number**

ADR/RID: -  IMDG: -  IATA: -

**UN proper shipping name**

ADR/RID:  Not dangerous goods
IMDG:  Not dangerous goods
IATA:  Not dangerous goods

**Transport hazard class(es)**

ADR/RID: -  IMDG: -  IATA: -

**Packaging group**

ADR/RID: -  IMDG: -  IATA: -
Environmental hazards
ADR/RID: no  IMDG Marine pollutant: no  IATA: no
Special precautions for user  no data available

Section 15:  Other Regulatory Information
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
Chemical Safety Assessment no data available

Section 16:  Other Information
References: Not available.
Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.