



**GAMMA AMINO BUTYRIC ACID**

**1.-IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING**

1.1.-Identification of the substance or preparation

Chemical name	Acidum-4-aminobutyricum
Trade name	Acidum-4-aminobutyricum (Gamma amino butyric acid )
CAS RN	56-12-2
Chemical family	A amino acid derivative
Chemical formula	C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub>

1.2.-Company/undertaking identification

Company	<b>Lianyungang Hengfei Pharmaceutical Co.,LTD.</b>
Person	Jufang Zhou
Address	<b>Duigougang ,guannan(Chemical Industrial Park)Lianyungang City , Jiangsu Province,People's Republic of China, 222523</b>
Telephone	086-0576-8517139
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1.3.-Emergency telephone number

Office	086-0576-8517139
Plants	086-0576-8517329
National Service of Toxicological Information	-----

**2.-COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance used in Material as Alendronic acid and used in Material drug as debasing ammonia chroma in blood.



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**3.-HAZARDS IDENTIFICATION**

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|---------------------------------------|--|
| 3.1.-Critical hazards to man          | Harmful in contact with skin.<br>Irritating to eyes. |
| 3.2.-Criticals hazards to environment | Not known to be hazardous to water.                  |

**4.-FIRST AID MEASURES**

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|-------------------|---|
| 4.1.-General      | Symptoms of poisoning may ever occur after several hours; therefore provide medical observation for at least 48 hours after the accident. |
| 4.2.-Inhalation   | Supply fresh air; consult doctor in case of complaints.   |
| 4.3.-Skin Contact | Immediately wash with water and soap and rinse thoroughly.  |
| 4.4.-Eye Contact  | Rinse opened eye for 15 minutes under running water. Then consult a doctor.   |
| 4.5.-Ingestion    | Immediately call a doctor.<br>Show this label.  |

**5.-FIRE FIGHTING MEASURES**

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|--|--|
| 5.1.-Suitable extinguishing media                                  | CO <sub>2</sub> , extinguishing powder or water spray.<br>Fight larger fires with water or alcohol resistant foam. |
| 5.2.-Extinguishing media which must not be used for safety reasons | Not applicable.  |
| 5.3.-Special exposure hazards                                      | Emits toxic fumes under fire conditions.   |
| 5.4.-Special protective equipment for firefighters                 | Wear self-contained respiratory protective device. Wear fully protective suit.                                     |



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**6.-ACCIDENTAL RELEASE MEASURES**

6.1.-Personal precautions	Wear protective equipment. Keep unprotected person away.
6.2.-Environmental precautions	---
6.3.-Methods for cleaning up	Ensure adequate ventilation. Dispose of the collected material according to regulations Wipe up with damp sponge or mop. Immediately remove all soiled and contaminated clothing.

**7.-HANDLING AND STORAGE**

7.1.-Handling	Prevent formation of dust. Ensure good ventilation / exhaustion at the work place. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
7.2.-Storage	Preserved in tight ,light –resistant container. Avoid excessive moisture

**8.-EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1.-Specific control parameters	
Engineering measures	Refer to section 7.1
Limit values	Not found.
Biological standards	Not found.



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9.10.-Oxidizing properties	Not applicable.
9.11.-Vapour pressure	Not found.
9.12.-Relative density	Not found.
9.13.-Solubility	Soluble in water
9.14.-Partition Coefficient	Not found.
9.15.-Other data	---

**10.-STABILITY AND REACTIVITY**

Stable

10.1.-Conditions to avoid	No decomposition if used according to specifications.
10.2.-Materials to avoid	Oxidizers
10.3.-Hazardous decomposition products	
Presence of stabilizers	Not applicable
Need of stabilizers	Not applicable
Dangerous products of decomposition	Poisonous gases/vapors
Safety significance of a change in physical appearance	Not found
Hazardous decomposition products formed upon contact with water	Not applicable
Possibility of degradation to unstable products	No dangerous reactions known.

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**11.-TOXICOLOGICAL INFORMATION**

11.1.-Dangerous-to-health effects/symptoms

By inhalation

Irritant to mucous membranes.

By skin contact

Irritant. Harmful. Possible sensitization through skin contact.

By eye contact

Irritating effect.

11.2.-Immediate/chronic effects from short and long term exposure

People with known or suspected allergies to antibiotics should use appropriate safety precautions when handling.

People that are allergic to antibiotics may experience eye, skin and respiratory irritation.

RTECS n<sup>o</sup>: VB1993650

**12.-ECOLOGICAL INFORMATION**

12.1.-Possible effects, behaviour and environmental fate of substance

Mobility

Not found.

Persistence and degradability

Not found.

Bioaccumulative potential

Not found.

Aquatic toxicity and other data relating to ecotoxicity

Not found.

Other information

The ecological effects have not been thoroughly investigated, and currently none have been identified.

**13.-DISPOSAL CONSIDERATIONS**



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|---|---|
| 13.1.-Information on safe handling residues       | Refer to sections 7.1 and 8.2                                   |
| 13.2.-Methods for disposal product                | Disposal must be made according to state and local regulations. |
| 13.3.-Methods for disposal contaminated packaging | Disposal must be made according to state and local regulations. |

**14.-TRANSPORT INFORMATION**

- |   |                 |
|---|-----------------|
| 14.1.-Special precautions   | Not applicable. |
| 14.2.-United Nations Recommendation or international agreements on the transport and packaging of dangerous goods | Not applicable. |

**15.-REGULATORY INFORMATION**

Symbol: Xn (harmful)  
R Phrases: 21 Harmful in contact with skin.  
                  36 Irritating to eyes.  
S Phrases: 7 Keep away from food, drink and animal feeding stuffs.  
                  15 Keep away from heat.

**16.-OTHER INFORMATION**

The data contained herein are based on the information currently available to us and believed to be accurate and reliable. Users should make their own investigations to determine the suitability of the information for their purpose. Nothing contained herein is intended as permission, inducement or recommendation to violate any laws or to practice any invention covered by existing patents.



# MATERIAL SAFETY DATA SHEET EEC 91/155

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To Substitute: Feb. 12 , 05	Substituted by: