



# Safety Data Sheet

## Section 1. Identification of the substance/preparation and of the company/undertaking

### 1.1. Product identifier

Product name: Gamma-aminobutyric acid

CAS 56-12-2

EINECS number 200-258-6

Product code: 106001

Synonyms: 4-Aminobutyric Acid

### 1.2. Relevant identified uses of the substance or mixture and uses advised against.

As supplement for application in food, feed and pharmaceuticals

### 1.3. Details of the supplier of the safety data sheet

Manufacturer

SHANGHAI ZNC BIOTECHNOLOGY CO., LTD.

ROOM 617, BUILDING 4-5, NO.500 EAST GAOKE ROAD, PUDONG NEW AREA,

SHANGHAI (201210), CHINA

86-21-68453907 / 58356660

### 1.4. Emergency telephone number

Emergency tel: +86-21-68453907

## Section 2. Hazards identification

### 2.1. Classification of the substance or mixture

No particular hazards known.

### 2.2 Label elements

Not available.

### 2.3 Other hazards



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PBT: This product is not identified as a PBT/vPvB substance.

### Section 3. Composition/information on ingredients

#### 3.1 Substances

Chemical identity: 4-Aminobutyric Acid

CAS number 56-12-2

EINECS number 200-258-6

### Section 4. First aid measures

#### 4.1 Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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

### Section 5. Fire-fighting measures

#### 5.1 Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

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

Exposure hazards: In combustion emits toxic fumes.

## **5.3. Advice for fire-fighters**

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## **Section 6. Accidental release measures**

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

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the

contaminated area with signs and prevent access to unauthorised personnel. Do not create dust.

### **6.2. Environmental precautions**

Environmental precautions: Do not discharge into drains or rivers.

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

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### **6.4. Reference to other sections**

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

## **Section 7. Handling and storage**

### **7.1. Precautions for safe handling**

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of dust in the air.

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

Storage conditions: Store in well ventilated area. Keep container tightly closed.

### **7.3. Specific end use(s)**

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Specific end use(s): No special requirement.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limits: No data available.

### 8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: Refer to specific Member State legislation for requirements under Community environmental legislation.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

State	Powder
Colour	White
Odor	None reported
Evaporation rate	No data available
Solubility in water	Soluble
Viscosity	No data available
Boiling point/range °C	247.985 °C at 760 mmHg
Flammability limits%:lower	No data available
Flash point °C	103.778 °C
Autoignition °C	No data available



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Relative density No data available

VOCg/l No data available

Melting point/range °C 195-204 °C

## 9.2 Other information

Other information : No data available

## Section 10. Stability and reactivity

### 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

### 10.2. Chemical

Chemical stability: Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Conditions to avoid: Heat.

### 10.5. Incompatible materials

Materials to avoid: Strong oxidizing agents. Strong acids.

### 10.6. Hazardous decomposition products

No available.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects.

No data available.

## Section 12. Ecological information

### 12.1. Toxicity

Ecotoxicity values: No data available.

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## 12.2. Persistence and degradability

Persistence and degradability: No data available.

## 12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

## 12.4. Mobility in soil

## 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

## Section 13. Disposal considerations

### 13.1. Waste treatment methods

#### **Product**

Observe all federal, state, and local environmental regulations. 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.

#### **Contaminated packaging**

Dispose of as unused product.

## Section 14. Transport information

Transport class: This product does not require a classification for transport.

## Section 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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**Section 16. Other information**

The information given 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 way shall the company 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 the company has been advised of the possibility of such damages.

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