



## Material Safety Data Sheet

Changzhou Guanghui Food Ingredients Co., Ltd.  
Binjiang 3rd Rd., Chunjiang Town  
Changzhou City, Jiangsu, P.R. China  
Document: MSDS Update Date: Jun. 2019

### Section 1 – Product and Company Information

**Product Name:** Aspartame

**Synonyms:** Asp-Phe Methyl Ester, Asp-Phe-O Me, N-(L-alpha-Aspartyl)-L-phenylalanine methyl ester

**Company:** Changzhou Guanghui Food Ingredients Co., Ltd.

Binjiang 3rd Rd., Chunjiang Town

Changzhou City, Jiangsu, P.R. China

**Technical Phone:** + 86 (519) 8503 3228

**Fax:** + 86 (519) 8503 1022

### Section 2 – Hazards Identification

**HMIS Rating:**

HEALTH:0

FLAMMABILITY: 0

REACTIVITY: 0

**NFPA Rating:**

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

**Warning:** Finely dispersed particles are sensitive to dust explosion

**Medical conditions aggravated by exposure:** phenylketonuria (PKU)

### Section 3 – Composition/Information on Ingredient

**FORMULA:** C<sub>14</sub>H<sub>18</sub>N<sub>2</sub>O<sub>5</sub>

**MOLECULAR WEIGHT:** 294.3

**CAS #:** 22839-47-0

**EC-No:** 245-261-3

**% by Weight:** 100

### Section 4 – First Aid Measures

If used under ordinary circumstances no special treatment is necessary. Wash thoroughly after handling.

**Oral Exposure:** Not toxic if swallowed in small amounts based on toxicology studies.

**Inhalation Exposure:** Move to fresh air, if breathing becomes difficult call a physician.

**Dermal Exposure:** No special treatment required. Flush with copious amount of water if needed.



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**Eye Exposure:** Flush eyes with copious amounts of water for at least 15 minutes. Call a physician.

### Section 5 – Fire Fighting Measures

**Flash Point:** N/A

**Auto Ignition Temperature:** N/A

**Flammability:** N/A

Stable under normal conditions. Special consideration should be taken to ensure the potential for dust concentration in the flammable range is minimized.

**Extinguishing Media:** Suitable: Water spray, Carbon Dioxide, dry chemical powder, or appropriate foam.

**Firefighting:** Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### Section 6 – Accidental Release Measures

**Procedure for Personal Precaution:** Wear appropriate protective equipment

**Methods for Cleaning Up:** Sweep up, place in bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill area after material pickup is complete.

### Section 7 – Handling and Storage

**Handling:** Avoid creating dusty conditions, inhalation, eye, skin and clothing contact. Worker exposure can be minimized if good industrial hygiene practices are utilized.

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

### Section 8 – Exposure Controls/Personal Protection

**Engineering Controls:** It is recommended that mechanical exhaust is utilized to minimize hazards contributed to dust explosions.

**Personal Protective Equipment:** Utilize appropriate PPE for handling of powders. Eye goggles, gloves and dust masks will create a more comfortable work environment.

**General Hygiene Measures:** Wash thoroughly after handling.

Recommended Airborne Exposure Limits for applicable dusts:

OSHA PEL

15mg/m<sup>2</sup> (Total Dust) 8- hour TWA

5 mg/m<sup>3</sup> (respirable) 8- hour TWA

ACGIH TLV:

10 mg/m<sup>3</sup> (inhalable) 8 – TWA

3mg/m<sup>3</sup> (respirable) 8-hour TWA



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### Section 9 – Physical and Chemical Properties

**Appearance:** White crystalline powder or granule

**Odor:** Practically odorless

**Purity (on dry basis):** 98-102%

**Moisture:**  $\leq 4.5\%$

**Residue on Ignition:**  $\leq 0.2\%$

**Melting Point Range:** 248-250 °C

|                                                  | Granular   | Powder             |
|--------------------------------------------------|------------|--------------------|
| <b>Minimal Explosion concentration for dust:</b> | 0.110 g/l  | 0.055 g/l          |
| <b>Maximal Explosion Pressure</b>                | 9.8 Bars   | 9.8 Bars           |
| <b>Kst:</b>                                      | 206 bar-m/ | sec 206 bar- m/sec |

### Section 10 – Stability and Reactivity

**Stability:** Stable for 3 years when stored under proper conditions. Materials to Avoid: Strong oxidizing agents

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and nitrogen oxides formed under fire conditions.

**Hazardous Polymerization:** None

### Section 11 – Toxicological Information

**Routes of Entry:** Absorbed through skin. Dermal contact, Eye contact, Inhalation, Ingestion.

**Toxicity to animals:** Acute oral toxicity (LD50): 10000 mg/kg (mouse)

**Chronic effects on Humans:** Documented studies has shown the safety of aspartame to man. Oral doses of 75 mg/kg/day to human subjects did not produce any clinical signs. The Acceptable Daily Intake (ADI) approved by the U.S. FDA is 50 mg/kg/day.

### Section 12 – Ecological Information

**Ecotoxicity:** Not available

**BOD5 and COD:** Not available

**Further information on ecology:** Not available

Biodegradable studies in published literature suggests aspartame would meet OECD guidelines for classifications as “readily biodegradable”



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### Section 13 – Disposal Considerations

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. Dispose in accordance with federal, state and local regulations.

### Section 14 – Transportation Information

#### IATA

Not regulated as a hazardous material.

#### IMO

Not regulated as a hazardous material.

#### RID/ADR

Not regulated as a hazardous material.

According to International maritime Dangerous Goods Code(IMDG CODE),  
This product is non-danger material,keeping on ventilated and dry area,and prevent moist and sun,  
not put together with food, seed and fertilizer.

### Section 15 – Regulatory Information

#### **United States Regulatory Information:**

##### **SARA Listed:**

Hazard Categories under Title III Rules (40 CFR 370): Not applicable

Section 302 Extremely Hazardous Substances: Not applicable

Section 313 Toxic Chemical(s): Not applicable

##### **Europe:**

Please check the consequences of national regulations on produce according to direct 67/548/EC.

There are no substances present within the products supplied to you considered to be of Very High Concern (SVHC), or included on the "Candidate List" as defined by REACH.

Polythene liner utilized as the Contact/Primary Packaging material is classified suitable for Food Grade use.

**TSCA Inventory Item:** Yes

**OSHA:** No known OSHA Hazards

### Section 16- Other Information

**References:** Not available



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**Other Special Considerations:** Not available

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