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**BE-LONG CORPORATION**

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# ASPARTAME MSDS

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1. Identification of the substance or preparation

Product name : [ASPARTAME](#)

Chemical Name : Aspartame

Synonym : Equal; L-alpha-aspartyl-L-phenylalanine-methylester; L-Aspartyl-L-phenylalanine methyl ester; L-Phenylalanine, N-L-alpha-aspartyl-, 1-methyl ester; Nutrasweet

Molecular formula : C<sub>14</sub>H<sub>18</sub>N<sub>2</sub>O<sub>5</sub>

Molecular Weight : 294.31

### 1.2. Use of the Substance/Preparation

**Recommended use:** - carbonated drinks

- fruit drinks
- jam
- fruity powder
- instant coffee
- frozen milchigs
- gum frozen soft sugar
- chewing gum
- candied fruit

### 1.3. Company/Undertaking Identification

Address : P.O.Box. 139 Gulou Post Office

Nanjing, 210008 China

### 1.4. Emergency and contact telephone numbers

Emergency telephone: +86-25-8471 2605

Contact telephone number : +86-25-8471 5120 (Product information)

## 2. HAZARDS IDENTIFICATION

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## **2.1. Emergency Overview:**

Not available.

Appearance: Sweet white powder.

Not available.

Target Organs: Skin.

## **2.2. Potential Health Effects:**

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: The toxicological properties of this substance have not been fully investigated.

Inhalatio: May cause respiratory tract irritation

Chronic: Repeated exposure may cause sensitization dermatitis.

## **3. FIRST AID MEASURES**

### **3.1 Eyes contact:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

### **3.2 Skin contact:**

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

### **3.3 Ingestion:**

Get medical aid. Wash mouth out with water.

### **3.4 Inhalation :**

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

### **3.5 Notes to Physician:**

Treat symptomatically.

None reported.

## **4. FIRE-FIGHTING MEASURES**

### **4.1 General Information:**

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As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

#### **4.2 Extinguishing Media:**

In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam.

#### **4.3 Autoignition Temperature:**

Not available.

#### **4.4 Flash Point:**

Not available.

#### **4.5 NFPA Rating:**

Not published.

#### **4.6 Explosion Limits, Lower:** Not available.

**Upper:** Not available.

## **5. ACCIDENTAL RELEASE MEASURES**

### **5.1 Spills/Leaks:**

Vacuum or sweep up material and place into a suitable disposal container.

### **5.2 Personal Protective Equipment**

Eyes: Wear chemical goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear a chemical apron.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator.

## **6. HANDLING AND STORAGE**

### **6.1. Handling:**

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

### **6.2. Storage:**

Store in a tightly closed container. Store in a dry area. Refrigerator (approx 4\_C).

## **7. EXPOSURE CONTROLS, PERSONAL PROTECTION**

### **7.2 Engineering Controls:**

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 22839-47-0:

### **7.1 Personal Protective Equipment**

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

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Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if

irritation or other symptoms are experienced.

## **8. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Crystalline powder

Color: white

Odor: odorless

pH: 5.3 8% soln. H<sub>2</sub>O

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 248 - 250 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: 3.00 vol %

Explosion Limits, upper: 17.50 vol %

Decomposition Temperature:

Solubility in water: slightly soluble

Molecular Formula: C<sub>14</sub>H<sub>18</sub>N<sub>2</sub>O<sub>5</sub>

Molecular Weight: 294.30

## **9. STABILITY AND REACTIVITY**

### **9.1 Chemical Stability:**

Stable under normal temperatures and pressures.

### **9.2 Conditions to Avoid:**

Incompatible materials, dust generation, excess heat, strong oxidants.

### **9.3 Incompatibilities with Other Materials:**

Strong oxidizing agents.

### **9.4 Hazardous Decomposition Products:**

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

### **9.5 Hazardous Polymerization:**

Will not occur

## **10. TOXICOLOGICAL INFORMATION**

CAS# 22839-47-0: WM3407000 LD<sub>50</sub>/LC<sub>50</sub>:

CAS# 22839-47-0: Oral, mouse: LD<sub>50</sub> = >10 gm/kg; Oral, rat: LD<sub>50</sub> = >10 gm/kg.

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Carcinogenicity:

L-Phenylalanine, N-L-.Alpha.-Aspartyl-, 1-Methyester -

Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

## 11. ECOLOGICAL INFORMATION

Other

No information available.

## 12. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

## 13. TRANSPORT INFORMATION

13.1 IATA

Not regulated as a hazardous material.

13.2 IMO

Not regulated as a hazardous material.

13.3 RID/ADR

Not regulated as a hazardous material.

## 14. REGULATORY INFORMATION

### 14.1. Federal

TSCA

CAS# 22839-47-0 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

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Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

## 14.2 State

Not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level:

None of the chemicals in this product are listed.

## 14.3 International

### Canada

CAS# 22839-47-0 is listed on Canada's DSL/NDSL List.

CAS# 22839-47-0 is not listed on Canada's Ingredient Disclosure List.

### European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

### Exposure Limits:

OEL-AUSTRALIA:TWA 500 ppm (1185 mg/m<sup>3</sup>);STEL 1000 ppm.

OEL-AUSTRIA:TWA 750 ppm (1780 mg/m<sup>3</sup>).

OEL-BELGIUM:TWA 750 ppm (1780 mg/m<sup>3</sup>);STEL 1000 pp.

OEL-CZECHOSLOVAKIA:TWA 800 mg/m<sup>3</sup>;STEL 4000 mg/m<sup>3</sup>.

OEL-DENMARK:TWA 250 ppm (600 mg/m<sup>3</sup>).

OEL-FINLAND:TWA 500 ppm (1200 mg/m<sup>3</sup>);STEL 625 ppm (1500 mg/m<sup>3</sup>).

OEL-FRANCE:TWA 750 ppm (1800 mg/m<sup>3</sup>).

OEL-GERMANY:TWA 1000 ppm (2400 mg/m<sup>3</sup>).

OEL-HUNGARY:TWA 600 mg/m<sup>3</sup>;STEL 1200 mg/m<sup>3</sup>.

OEL-INDIA:TWA 750 ppm (1780 mg/m<sup>3</sup>);STEL 1000 ppm (2375 mg/m<sup>3</sup>).

OEL-JAPAN:TWA200 ppm (470 mg/m<sup>3</sup>)

OEL-THE NETHERLANDS:TWA 750 ppm (1780 mg/m<sup>3</sup>) JAN9

OEL-THE PHILIPPINES:TWA 1000 ppm (2400 mg/m<sup>3</sup>).

OEL-POLAND:TWA 200 mg/m<sup>3</sup>.

OEL-RUSSIA:TWA 200 ppm;STEL 200 mg/m<sup>3</sup>.

OEL-SWEDEN:TWA 250 ppm (600 mg/m<sup>3</sup>);STEL 500 ppm (1200 mg/m<sup>3</sup>).

OEL-SWITZERLAND:TWA 750 ppm (1780mg/m<sup>3</sup>).

OEL-TURKEY:TWA 1000 ppm (2400 mg/m<sup>3</sup>).

OEL-UNITED KINGDOM:TWA 1000 ppm (2400 mg/m<sup>3</sup>);STEL 1250 ppm.

OEL IN BULGARIA, COLOMBIA, JORDAN,

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KOREA check ACGIH TLV. OEL IN NEW ZEALAND, SINGAPORE,  
VIETNAM check ACGI TLV

## **15. ADDITIONAL INFORMATION**

The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. (Unless noted to the contrary, the technical information applies only to pure product). To our actual knowledge, the information contained herein is accurate as of the date of this document. However, neither the company nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. The user alone must finally determine suitability of any information or material for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. This information gives typical properties only and is not to be used for specification purposes. The company reserves the right to make additions, deletions or modifications to the information at any time without prior notification. Trademarks and/or other products of the company referenced herein are either trademarks or registered trademarks of the company or its affiliates, unless otherwise indicated.

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