

Safety Data Sheet

Aspartame

SECTION 1: Identification of the product and the company/undertaking

1.1. Product identifier

Product name: Aspartame
Synonyms: None
Proper shipping name: None
Other identities: None

1.2. Relevant identified uses of the product and uses advised against

1.2.1. Relevant identified uses

Food additives.

1.2.2. Uses advised against

Advise against other uses.

1.3. Details of the supplier of the safety data sheet

Supplier name: Suzhou-Chem, Inc.
Address: 369 Washington St., Ste. 318 Wellesley, MA 02481
Telephone: 781-433-8618

SECTION 2: Hazards identification

2.1. Classification of the product

Classification according to Directive 67/548/EEC

Not considered as dangerous substance.

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not considered as hazardous substance.

Other adverse physico-chemical, human health and environmental effects

None

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

None

2.3. Other hazards

Individuals with phenylketonuria should be aware that this material releases phenylalanine upon

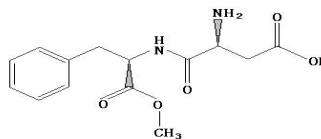
metabolism.

SECTION 3: Composition/information on ingredients

3.1. Substance

Common Name: Aspartame
Chemical Name: Alpha-L-aspartyl-L-phenylalanine methyl ester
Synonym: n/f

Molecular Formula: C₁₄H₁₈N₂O₅
Structural Formula: HO₂CCH₂CH(NH₂)CONHCH(CH₂C₆H₅)CO₂CH₃



CAS №: 22839-47-0
EINECS №: 245-261-3
E-№: E 951
Chemical Family: A Dipeptide ester
Therapeutic Category: Sweetener
Composition: Pure Material
Molecular Weight 294.31

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Generally not applicable.

Skin contact: Wash with plenty of soap and water.

Eye contact: Immediately flush eyes with running water for at least 20 minutes holding eyelids open.

Ingestion: Generally not applicable.

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

Inhaled:

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Ingestion:

Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).

Skin Contact:

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Eye:

Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

Chronic:

Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

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

Get medical attention and treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

5.2. Special hazards arising from the product

No data available.

5.3. Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water courses.

Use water delivered as a fine spray to control fire and cool adjacent area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

Only when safe to do so, remove containers from path of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Wear general protective gloves, eg. Light weight rubber gloves.

6.1.2. For emergency responders

Wear breathing apparatus plus protective gloves. Remove ignition sources and provision of sufficient ventilation, evacuate the danger area and consult experts.

6.2. Environmental precautions

Take precautions to prevent entry into waterways, sewers, or surface drainage systems. Dispose according to local or international regulations.

6.3. Methods and material for containment and cleaning up

Use appropriate tools to put the spilled chemicals in suitable container for recovery or disposal.

6.4. Reference to other sections

Refer to Section 8 for Personal Protective Equipment advice.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: PE bag. Kept air tightly in a light-proof, dry and cool place. Keep away from sources of odors.

Storage incompatibility: Avoid reaction with strong acid, alkali and oxidizing agents.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available.

8.2. Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.
Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

General Personal Protection: General protective clothing and apparatus.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	White crystalline granular or powder
Colour:	White
Odour:	Odourless
pH:	4.5~6.0
Melting point/freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Vapour pressure:	No data available
Density g/cm ³	No data available
Specific gravity (gm/cc)	No data available
Water solubility:	Slightly Soluble
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Flammability:	No data available
Upper/lower explosive limits:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Dissociation constants:	No data available
Surface tension:	No data available
Viscosity:	No data available

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

May react with strong acid, alkali, oxidizing agents and incompatible materials.

10.2. Chemical stability

Product is considered stable during storage and transportation under normal condition.

10.3. Possibility of hazardous reactions

Hazardous reactions may occur if contact with incompatible material.

10.4. Conditions to avoid

High temperature, ignition sources (sparks, flames, static), incompatible materials.

10.5. Incompatible materials

Strong acid, alkali and oxidizing agents

10.6. Hazardous decomposition products

On combustion or thermal decomposition, may emit toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

People who have benzene acetone urine disease should be careful with aspartame.

SECTION 12: Ecological information

12.1. Aquatic toxicity

No data available for the substance.

12.2. Persistence and degradability

Biodegradation:	No data available
Abiotic degradation:	No data available

12.3. Bioaccumulative potential

Bioconcentration factor (BCF):	No data available
--------------------------------	-------------------

12.4. Mobility in soil

Distribution to environmental compartments:	No data available
---	-------------------

Adsorption/Desorption:	No data available
------------------------	-------------------

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal: refer to specific national regulation.

Contaminated packaging: DO NOT allow wash water from cleaning or process equipment to enter drains.

SECTION 14: Transport information

Based on available information, the product is not considered as dangerous goods and the UN

recommendation on the transport of dangerous goods does not necessarily apply, however, it is highly recommended to get professional advice for appropriate transport.

14.1 Label required

None

14.2 Transport information

14.2.1	UN Number	None
14.2.2	Shipping name	None
14.2.3	Road (ADR)	None
	Rail (RID)	None
	Air (ICAO/IATA)	None
	Sea (IMO/IMDG)	None
14.2.4	ADR-Packing Group:	None
14.2.5	Environmental Pollutant:	None
	Marine pollutant:	None
14.2.6	Special Precautions for User	None

14.3 Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

No data available

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - 67/548/EEC, 1999/45/EC, Regulation (EC) No 1272/2008, Regulation (EC) No 1907/2006, 98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC and 1999/13/EC.

15.1.2. International/national regulations

None

15.1.3. Regulation for ingredients

None

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

SECTION 16: Other information

16.1 Key literature references and sources for data

- ESIS (European chemical Substances Information System), <http://esis.jrc.ec.europa.eu/>
- Information on Chemicals in ECHA website, <http://echa.europa.eu/information-on-chemicals>
- IFA GESTIS - International limit values for chemical agents - Occupational exposure limits (OELs), http://www.dguv.de/ifa/en/gestis/limit_values/index.jsp

16.2 List of relevant hazard statements and risk phrases

None

16.3 Other

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to

Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EUCEN Standards:

EN 16 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices