

Safety Data Sheet

1. IDENTIFICATION

Product Identifier
Chemical Name & Synonyms:

N-L- α -Aspartyl-L-phenylalanine 1-Methyl ester,
 α -L-Aspartyl-L-phenylalanine methyl ester

Trade Name & Synonyms:

AminoSweet, Aspartame

Chemical family:

Intense sweetener

Formula:

C₁₄H₁₈N₂O₅

Molecular weight:

294.31

CAS No.:

22839-47-0

Manufacture Name & Address:

AJINOMOTO CO., INC.

15-1, 1-Chome, Kyobashi, Chuo-Ku, Tokyo 104-8315, JAPAN

Manufacturer's Telephone Number: +81-3-5250-8196

Emergency's Telephone Number (JAPAN): +81-3-5250-8196

Emergency's Telephone Number (US): +1-800-456-4666

2. HAZARD(S) IDENTIFICATION

Physical Hazard:

NONE

Health Hazard:

NONE

OSHA defined hazard:

NONE

Label elements
Signal word:

NONE

Hazard statement:

NONE

Precautionary Statement:

KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. STORE IN A WELL VENTILATED PLACE. USE APPROPRIATE MEASURES TO MINIMIZE EXPLOSION POTENTIAL.

3. COMPOSITION INFORMATION ON INGREDIENTS

Principal Components:

α -L-Aspartyl-L-phenylalanine methyl ester

Percent:

100

4. FIRST AID MEASURES

Inhalation :

EVACUATE THE AREA AND BREATHE FRESH AIR. IF SYMPTOMS OF SENSITIZATION OCCURS, SEEK MEDICAL ADVICE.

Eye contact:

IN CASE OF EYE CONTACT, FLUSH WITH WATER FOR 15min.

Skin:

IN CASE OF SKIN CONTACT, WASH SKIN WITH SOAP AND WATER.

Ingestion:

NOT NECESSARY IN PARTICULAR.

Most important symptoms/effects, acute and delayed:

NONE

Indication of immediate medical attention and special treatment needed:

NONE

General information:

NONE

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

WATER

Unsuitable extinguishing media:

NONE

Specific hazard arising from chemical:

NONE

Special protective equipment and precautions for fire fighters:

NONE

Fire fighting equipment/ instructions:

NONE

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

NONE, RECOMENDATIONS, SEE BELOW

Protective equipment:

WEARING A RESPIRATORY PROTECTOR AND GOGGLES WHEN NECESSARY DEPENDING ON DUST CONDITION.

Emergency procedure:

ORDINARY CLEANUP PROCEDURES

Methods and materials for containment and clean up:

VACUUM OR SWEEP AWAY AND PLACE IN CONTAINER FOR DISPOSAL.

7. HANDLING AND STORAGE

Precaution for safe handling:

MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR; DUST CLASS ST2.

Conditions for safe storage, including any incompatibilities:

KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. STORE IN A WELL VENTILATED PLACE.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA Exposure limits:

NOT AVAILABLE

US ACGIH Threshold Limit Value(TLV):

NOT AVAILABLE

Appropriate engineering controls:

NOT AVAILABLE

Individual protection measures, such as personal protective equipment

Eye/face protection:

WEARING GOGGLES WHEN NECESSARY DEPENDING ON DUST CONDITION.

Skin protection:

UNNECESSARY

Hand protection:

UNNECESSARY

Respiratory protection:

WEARING A PROTECTOR WHEN NECESSARY DEPENDING ON DUST CONDITION.

Thermal Hazard:

NOT APPLICABLE

General hygiene considerations:

WASH HANDS, FOREARMS OR FACE AFTER HANDLING PRODUCT

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: CRYSTALLINE POWDER

Physical

State: POWDER

Color: WHITE

Odor: ODORLESS

Odor threshold: NOT APPLICABLE

pH in aqueous solution: 4.5 - 6.0

Melting point/Freezing point: 246 - 247°C

Initial boiling point and boiling point range: NOT APPLICABLE

Flash point: NOT AVAILABLE

Evaporation rate: NOT APPLICABLE

Flammability (solid, gas): NOT APPLICABLE

Upper/lower flammability or explosive limits

Flammability limit-lower (%): NOT APPLICABLE

Flammability limit-upper (%): NOT APPLICABLE

Explosive limit-lower (%): NOT APPLICABLE

Explosive limit-upper (%): NOT APPLICABLE

Vapor pressure: NOT APPLICABLE

Vapor density: NOT APPLICABLE

Relative density: NOT AVAILABLE

Solubility

Solubility (water): CA. 0.9 g/100 g WATER AT 20 °C

partitioncoefficient (n-octanol/water) : NOT AVAILABLE

Auto-ignition temperature: NOT AVAILABLE

MINIMUM EXPLOSION CONC. FOR DUST (POWDER): 40 g/m³

Maximum Explosion Pressure: : 7.1 bar

Kst: 207 bar·m/s

Minimum spark ignition energy: 3 - 10 mJ

Decomposition temperature: NOT APPLICABLE

Viscosity: NOT APPLICABLE

10. STABILITY AND REACTIVITY

Reactivity

Chemical stability:

STABLE

Possibility of hazardous reactions:

NOT LIKELY TO OCCUR

Condition to avoid (static discharge, shock or vibration):

AVOID STATIC DISCHARGE

Incompatible materials:

NOT AVAILABLE

Hazardous decomposition products:

NONE

11. TOXICOLOGICAL INFORMATION

Information on likely route of exposure

Inhalation:

LIKELY ROUTE

Skin contact:

LIKELY ROUTE

Eye contact:

LIKELY ROUTE

Ingestion:

LIKELY ROUTE

Symptoms related to the physical, chemical and toxicological characteristics:

NOT AVAILABLE

Information on toxicological effects:

NOT AVAILABLE

Acute toxicity:

ORAL, 3000 mg/kg IN DOGS, 5000 mg/kg IN MICE-RATS - NO DEATHS

Skin corrosion/irritation:

GROSS EXPOSURE MAY RESULT IN IRRITATION

Serious eye damage/eye irritation:

GROSS EXPOSURE MAY RESULT IN IRRITATION

Respiratory or skin sensitization

Respiratory sensitization:

NONE

Skin sensitization:

GROSS EXPOSURE MAY RESULT IN IRRITATION

Germ cell mutagenicity:

NON MUTAGENIC

Carcinogenicity:

NON CARCINOGENIC

IARC Monograph:	NOT ON IARC MONOGRAPH
OSHA specifically regulated products:	NOT OSHA REGULATED PRODUCT
Reproductive toxicity:	NOT REPRODUCTIVE TOXICANT
Specific target organ toxicity single exposure:	FDA APPROVED FOOD ADDITIVE
Specific target organ toxicity reported exposure:	FDA APPROVED FOOD ADDITIVE
Aspiration hazard:	NOT AVAILABLE

12. ECOLOGICAL INFORMATION

Ecotoxicity:	NOT AVAILABLE
Persistence and degradability:	BIODEGRADABLE
Bioaccumulative potential:	BIODEGRADABLE
Partition coefficient n-octanol/ water (log Kow):	NOT AVAILABLE
Mobility in soil:	NOT AVAILABLE
Other adverse effects:	NOT AVAILABLE

13. DISPOSAL CONSIDERATIONS

Disposal instructions:	DISPOSE OF IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY REGULATIONS.
Local disposal regulations:	DISPOSE OF IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY REGULATIONS.
Hazardous waste code:	NONE
Waste from residues/ unused products:	DISPOSE OF IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY REGULATIONS.
Contaminated packaging:	DISPOSE OF IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY REGULATIONS.

14. TRANSPORT INFORMATION

DOT:	NOT APPLICABLE
IATA:	NOT APPLICABLE
IMDG:	NOT APPLICABLE

THIS PREPARATION IS NOT A DANGEROUS GOOD WITHIN A MEANING OF TRANSPORTATION REGULATION.

15. REGULATORY INFORMATION

FDA APPROVED FOOD INGREDIENT

16. OTHER INFORMATION

The format in this Safety Data Sheet may comply with Globally Harmonized System of Classification and Labelling (GHS).

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