

SAFETY DATA SHEET

ACCORDING TO (CE) 1907/2006 & (CE) 1272/2008



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EFFECTIVE DATE: 01.JUL.2019

SUPERSEDES: 01.APR.2019

1. IDENTIFICATION OF THE SUBSTANCE / COMPANY:

1.1 Product identifier:

Aspartame

Chemical Name:

N-L- α -Aspartyl-L-Phenylalanine-1-methyl ester; (3S)-3-Amino-4-[[[(2S)-1-methoxy-1-oxo-3-phenylpropan-2-yl]amino]-4-oxobutanoic acid.

Other Name:

3-amino-N-(α -carbomethoxy-phenethyl)-succinamic acid-N-methyl ester.

Chemical Formula:

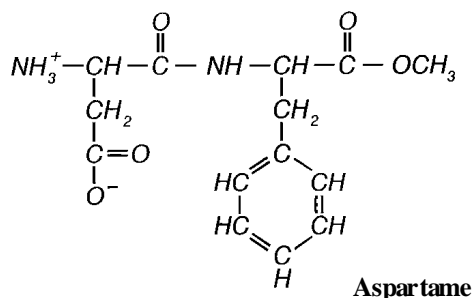
C₁₄H₁₈O₅N₂

INS:

951 or E951 for European Union

Molecular Weight:

294.3 g/mol



1.2 Identified uses :

Intense sweetener, food additive.

1.3 Supplier's plant Address:

HSWT France SAS

7516, 7516 Route de la grande Hernesse
59820 Gravelines / France

1.4 Emergency contact:

Tel. + 33 (0)3 28 22 74 00; Fax. + 33 (0)3 28 22 75 01
E-mail: technical.service@hswt.fr

Tel. + 33 (0)1 45 42 59 59 (poison control center, open 24 hours, 7 days a week).

2. HAZARDS IDENTIFICATIONS:

2.1 Classification of the substances:

Not classified as dangerous according to the Regulation (EC) No 1272/2008.

2.2 Label elements:

Not applicable, No hazard pictogram is required.

2.3 Other hazards:

No critical hazard for the environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS:



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Substances:	Aspartame
CAS No.:	22839-47-0
EINECS No:	245-261-3
% by weight:	100

4. FIRST AID MEASURES:

Gross exposure may produce respiratory tracts, eye or skin irritation.

Eyes:	Flush with water, eyelids well opened, for 15 min.
Skin:	Wash skin with soap and water.
Gross Inhalation:	Make breathe of fresh air and consult medical personnel.
Ingestion:	No incidence, food product.

5. FIREFIGHTING MEASURES:

5.1 Suitable extinguish media:	Water recommended.
5.2 Special hazards:	Combustion products: CO ₂ , CO, NO _x
5.3 Advice for firefighters:	No specific protections.

6. ACCIDENTAL RELEASE MEASURES:

6.1 Personal Precautions:	None; Recommendations, see Point 8.
6.2 Environmental precautions:	None.
6.3 Methods for cleaning up:	Vacuum or sweep away and place in container for disposal.

7. HANDLING AND STORAGE:

7.1. Precautions for safe handling:	Severe dust explosion potential. Dust Class ST-2. (See Point 9.). Appropriate measures should be employed to minimize the potential of dust explosion.
7.2. Conditions for safe storage:	Dry condition, avoid high heat and high humidity. Keep container tightly closed and inner bag sealed. Keep away from sources of odors. Shelf-life = 5 years.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS:

Eye and face protection:	With normal handling, none needed. Safety glasses can prevent dust in eyes.
Hand/Skin protection:	With normal handling, none required. Gross exposure may produce skin irritation: Wearing of gloves is advised.
Respiratory protection:	With normal handling, none required. Although no specific exposure limit has been established for HSWT France Aspartame, however limits for nuisance dust have been established:



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	OSHA PEL	VLEP	ACGIH TWA
Inhalable	15 mg/m ³	10 mg/m ³	10 mg/m ³
Respirable:	5 mg/m ³	5 mg/m ³	3 mg/m ³

In case of extended exposure to product dust, dust mask is recommended and/or sufficient ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	White odorless, crystalline powder or granular.	
pH (0.8% water solution):	Between 4.5 - 6.0	
Melting point:	246 - 247 °C by observation	
Solubility in water:	≈ 1% at 20 °C, ≈ 3% at 50 °C	
Specific Gravity:	1.3	
Flash point:	Not applicable.	
Flammability:	Not applicable.	
Auto Ignition Temperature:	Not applicable.	
Vapor pressure:	Not applicable.	

	<i>for Granular:</i>	<i>for Powder:</i>
Minimal explosion concentration for dust:	0.110 g/l	0.055 g/l
Maximal explosion pressure	9.8 bars	9.8 bars
Kst:	206 bar - m/s	206 bar - m/s
Minimal spark ignition energy:	< 0.20 Joules	
Density (unpacked):	0.6 ±0.1 g/ml	0.25 ±0.1 g/ml
Particle Size:	180-850 µm	99% < 150 µm

10. STABILITY AND REACTIVITY:

10.1 Reactivity:	Generally inert substance.
10.2 Chemical stability:	Five Years at ambient room conditions in a cool and dry place (recommendation: below 30°C and 35 to 75% relative humidity), preserved in well-closed original container.
10.3 Hazardous reactions:	No available data.
10.4 Conditions to avoid:	No available data.
10.5 Incompatible materials:	Incompatible with strong oxidizer.
10.6 Hazardous decomposition products:	CO ₂ , CO, NO _x

11. TOXICOLOGICAL INFORMATION:



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Acute oral Toxicity: (LD50):	LD 50 Oral > 5000 mg/kg (rat/mice); practically not toxic.
Route of entry into body:	Inhalation / Ingestion.
Skin, Eye and Respiratory tracts contact:	Gross exposure may produce skin, eyes and respiratory tracts irritation.
Long Term Effects:	Oral doses of 75 mg/kg/day to human subjects for 6 months did not produce any clinical signs.
Acceptable Daily Intake (ADI)	JECFA: Aspartame: 40 mg/kg body weight. Diketopiperazine: 7.5 mg/kg.
	FDA: Aspartame: 50 mg/kg.

12. ECOLOGICAL INFORMATION:

Biodegradable, non-regulated material.

13. DISPOSAL CONSIDERATIONS:

Incinerate or place in an approved landfill, according to local regulations.

14. TRANSPORT INFORMATION:

Not classified as a hazardous substance.
U.N. / N.A. Number: Not applicable.
Technical Shipping Name: Aspartame.
Product Label: HSWT Aspartame.

15. REGULATORY INFORMATION:

Not classified as dangerous substance.
In Application : European Union and national food regulations may set upper limits in applications, cf. (EU) 1333/2008 and (EC) 1129/2011.
In USA: GRAS (Generally Recognized As Safe) use level.
Contains Phenylalanine (Amino acid). To be considered by Homozygous Phenylketonurics.

16. OTHER INFORMATION:

Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, HSWT France S.A.S. makes no representations as to the completeness or accuracy thereof. In no event will HSWT France S.A.S. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

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