

L-Aspartic acid**DOC0(118-121)****SECTION 1 Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Identification of the product : Raw material
Product code : DOC0(118-121)
Trade name : L-Aspartic acid
EC-No : 200-291-6
CAS number : 000056-84-8
Formula : C4H7NO4
Molecular Weight (g/mol) : 133.1

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses : For research purposes only
1.2.2 Uses advised against : No additional information available

1.3. Details of the supplier of the safety data sheet

Company identification : Formedium Ltd.
King's Lynn, England, PE31 6DJ
Tel: +44(0)1485 609069
Web: www.Formedium.com
E-mail: info@formedium.com

1.4. Emergency telephone number

Emergency telephone number : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

SECTION 2 Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) 1272/2008**

Serious eye damage / eye irritation (Category 2) H319
For the full text of the H-Statements mentioned in this section, see Section 16.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008**

Signal Word : Warning
Hazardous ingredients : L-Aspartic acid
Hazard statement(s) : H319 Causes serious eye irritation.
Precautionary statement(s) : P280 Wear protective gloves, protective clothing, face protection, eye protection.
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes.
P337 + P313 If eye irritation persists: Get medical advice / attention.
unwell. Rinse mouth.



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L-Aspartic acid**DOC0(118-121)****SECTION 2 Hazards identification (continued)****2.3. Other hazards**

None under normal conditions.

SECTION 3 Composition/information on ingredients**3.1. Substance / Preparation**Name: Aspartic acid (L-)
CAS-No.: 000056-84-8
EC-No.: 200-291-6**Hazardous ingredients according to Regulation (EC) No. 1272/2008**

Component:	Concentration	CAS No	EC No	Classification
L-Aspartic acid	>= 98.5%	56-84-8	200-291-6	Serious eye damage / eye irritation H319

For the full text of the H-Statements mentioned in this Section, see section 16.

SECTION 4 First aid measures**4.1. Description of first aid measures**

If inhaled	Assure fresh air breathing.
In case of skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
In case of eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
If swallowed	Rinse mouth.

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

No additional information available.

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

No additional information available.

SECTION 5 Fire-fighting measures**5.1. Extinguishing media****Suitable extinguishing media** Water spray, alcohol resistant foam, dry chemical powder or carbon dioxide (CO₂).**5.2. Special hazards arising from the substance or mixture**When exposed to heat, may decompose liberating hazardous gases. CO_x NO_x.**5.3. Advice for firefighters**

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Surrounding fires : Use water spray or fog for cooling exposed containers.

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SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures**Personal precautions** : Equip cleanup crew with proper protection.**6.2 . Environmental precautions****Environmental precautions** : Prevent entry to sewers and public waters.**6.3. Methods and material for containment and cleaning up****Clean up methods** : Sweep up dry powder and dispose properly.**6.4. Reference to other sections**

For disposal see section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling**Handling** : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Precautions in handling and storage : Handle in accordance with good industrial hygiene and safety procedures.**7.2. Conditions for safe storage, including any incompatibilities****Storage** : Store in a dry, well-ventilated area. Store at ambient temperature. Keep container tightly closed and protected from light. Keep container closed when not in use.**7.3. Specific end use(s)**

For research purposes only

SECTION 8 Exposure controls/personal protection

8.1. Control parameters**Industrial hygiene** : Either local exhaust or general room ventilation is usually required.**8.2. Exposure controls****Hand protection:**

Type	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (>480 minutes)	0.11	EN374

Eye protection:

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin and body protection:

Wear suitable protective clothing. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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Dust production: Dust mask with filter type P1.

SECTION 9 Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Powder
Appearance	Crystals
Odour	No data available
Odour Threshold	No data available
pH	2.5 – 3.5 4 g/L at 20°C
Melting point	270 – 271 °C
Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Relative evaporation rate	No data available
Flammability (solid,gas)	No data available
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Water solubility	0.45 g/L
Log Pow	- 3.89
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosive limits	No data available

9.2. Other safety information

No data available

L-Aspartic acid**DOC0(118-121)****SECTION 10 Stability and reactivity****10.1. Reactivity**

No additional information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

Strong oxidizers. Strong acids.

10.6. Hazardous decomposition products

According to process conditions, hazardous decomposition products may be generated.

Carbon oxides (CO_x), Nitrogen oxides (NO_x).**SECTION 11 Toxicological information****11.1. Information on toxicological effects****Toxicity information**

-Inhalation

-- Dermal

-- Ocular

Toxicological effects have not been examined.

May cause irritation to the respiratory tract.

May cause skin irritation.

Causes eye irritation.

11.2. Additional Information**Endocrine disrupting properties :**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12 Ecological information**12.1. Toxicity**

No data available.

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

12.7. Endocrine disrupting properties

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

L-Aspartic acid**DOC0(118-121)****SECTION 13 Disposal considerations****13.1. Waste treatment methods****General**

Dispose of this material and its containers to hazardous or special waste collection point. Dispose in a safe manner in accordance with local / national regulations.

SECTION 14 Transport information**14.1. UN Number**

Not applicable.

: Not classified as dangerous in the meaning of transport regulations.

General information**14.2. UN Proper shipping name**

Not applicable.

14.3. Transport Hazard Class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Bulk transport – annex II Marpol 73/78 – IBC

Not applicable.

SECTION 15 Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet complies with the requirements of Regulation (EC) No. 2015/830.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 Other information**Full text of H- and EUH-statements referred to under sections 2 and 3.**Eye irritation 2
H319Serious eye damage / eye irritation. Category 2
Causes eye irritation.**Further information**

: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision

: Complete SDS revision

End of document