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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.
 Unit 1B Hunstanton Commercial Park
 Norfolk PE365JQ
 Tel: +44(0)1485 609069
 Fax: +44(0)1485 600510
 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)
 National Poison Information Centre : Europe UK : +44 0845 4647 (this service is only available to health professionals)
 See www.toxbase.org for a local poison centre

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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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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Section 8: Exposure controls / personal protection (continued)

Respiratory protection

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

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E-mail: info@formedium.com

In case of emergency :+44(0)1485 609069

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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 (COx), Nitrogen oxides (NOx).

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.

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.

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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	Serious eye damage / eye irritation. Category 2
H319	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