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<h2>L-Phenylalanine</h2>		<h3>DOC0(170-173)</h3>

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(170-173)
 Trade name : L-Phenylalanine
 CAS number : 000063-91-2

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
 Not regulated

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008
 Hazards pictograms code : None
 Precautionary statements : None

2.3 Other hazards

None under normal conditions. :.

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SECTION 3 Composition/information on ingredients

3.1 Substance / Preparation

Molecular weight g/mol : 165.2
 Structural formula: : C9H11NO2

Substance name:	Contents	CAS No:	EC No:	Annex No:	Ref REACH	Classification
L-Phenylalanine	> 99 %	63-91-2	200-568-1	--	--	--

SECTION 4 First aid measures

4.1. Description of first aid measures

- General information** : Seek medical attention if ill effects develop.
- Inhalation** : Remove victim to fresh air.
- Skin contact** : Wash skin with mild soap and water.
- Eye contact** : Rinse with water.
- Ingestion** : Rinse mouth.

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

Symptoms and effects, both acute and delayed. : Risk of lung oedema.

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

Medical attention and special treatment needed. : No data available.

SECTION 5 Fire-fighting measures

5.1. Extinguishing media


Suitable extinguishing media : Alcohol foam, Water spray, Carbon dioxide (CO2) or Dry powder.

5.2. Special hazards arising from the substance or mixture

When heated to decomposition, emits toxic fumes.
 Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides.

5.3. Advice for firefighters

- Protection against fire** : Wear proper protective equipment.
- Special procedures** : Avoid (reject) fire fighting water to enter environment.

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SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid raising powdered material into airborne dust.
Wear suitable protective equipment.

6.2 . Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Dispose in a safe manner in accordance with local/national regulations.
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

Store in a dry, well ventilated area.

7.2. Conditions for safe storage, including any incompatibilities

Store at room temperature.
Keep container tightly closed and dry.
Light (Daylight).

7.3. Specific end use(s)

For research purposes only

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

- | | |
|---------------------------------|---|
| - Eye protection | : Chemical goggles or safety glasses. |
| - Skin protection | : Wear suitable protective clothing. |
| - Hand protection | : Gloves |
| - Respiratory protection | : P1 where excessive dust may result, wear approved mask. |

SECTION 9 Physical and chemical properties

• **Appearance**

Appearance : Powder

Colour : White

• **Odour**


Odour : Negligible

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SECTION 9 Physical and chemical properties (continued)

- Odour threshold
Odour threshold : Not established.
- pH
pH value : 5 – 7 (16.5 g/L 25°C)
- Melting point / Freezing point
Melting point (°C) : 270 – 275
- Initial boiling point – boiling range
Boiling point (°C) : No data available.
- Flash point
Flash point (°C) : No data available.
- Evaporation rate
Evaporation rate (ether =1) : No data available.
- Flammability
Flammability range (vol % in air) : No data available.
- Explosion limits (lower – upper)
Explosion limits : No data available.
- Vapour pressure
Vapour pressure : No data available.
- Vapour density
Relative vapour density (air=1) : 5.71
- Relative density
Bulk density : circa 580 kg/m³
- Solubility
Solubility in water : 27 g/L (20°C)
- Partition coefficient : n-octanol / water
Log P octanol / water at 20°C : - 1.38
- Auto-ignition temperature
Auto-ignition temperature (°C) : No data available.
- Thermal decomposition
Thermal decomposition (°C) : No data available.
- Viscosity
Viscosity : No data available.
- Explosive properties
Explosive properties : Not established.
- Oxidising properties
Oxidising properties : Not established.

9.2 Other information

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SECTION 10 Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

May liberate toxic gases

NO_x, CO_x.

10.4. Conditions to avoid

Conditions to avoid

Direct sunlight.
Overheating.

10.5. Incompatible materials

Strong oxidisers.

10.6. Hazardous decomposition products

Hazardous decomposition products

May liberate toxic gases.
CO_x
NO_x

SECTION 11 Toxicological information

11.1. Information on toxicological effects

- Inhalation : May cause irritation to the respiratory tract.
- Dermal : May cause skin irritation.
- Ocular : May cause eye irritation.
- Other : See actual entry in RTECS for complete information AY7535000.
- Rat oral LD50 (mg/Kg) : 5287

SECTION 12 Ecological information

12.1. Toxicity

No data available.

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

Bioaccumulation potential :
None

12.4. Mobility in soil

No data available.


12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Environmental precautions

Prevent entry to sewers and public waters.
Avoid release to the environment.

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SECTION 13 Disposal considerations

13.1. Waste treatment methods

General This product is not hazardous.

Special precautions When not empty dispose of this container at hazardous or special waste collection point.

SECTION 14 Transport information

14.1. UN Number

Not applicable.

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

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

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

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