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<h2>L-Lysine</h2>		<h3>DOC0(158-161)</h3>

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Identification of the product : Substance
Trade name : L-Lysine
CAS number : 000056-87-1
Formula : C₆H₁₄N₂O₂
Product Code : DOC 0(158-161)

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 : 146.19
 Structural formula: : C6H14N2O2

Substance name:	Contents	CAS No:	EC No:	Annex No:	Ref REACH	Classification
L-Lysine	> 97%	56-87-1	200-294-2	--	--	--

SECTION 4 First aid measures

4.1. Description of first aid measures

- Inhalation** : If breathed in, move person into fresh air. If not breathing give artificial respiration.
- Skin contact** : Wash off with soap and plenty of water.
- Eye contact** : Flush eyes with water as a precaution.
- Ingestion** : Rinse mouth with water. Never give anything by mouth to an unconscious person.

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 : Use water spray, Carbon dioxide (CO₂), Alcohol resistant foam or Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Under fire conditions, hazardous fumes will be present. CO_x, NO_x.

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire-fighting if necessary.

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SECTION 6 Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Measures in case of dust release : Avoid dust formation.

6.2. Environmental precautions

Do not allow product to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up dry powder and dispose properly.
Keep in suitable, closed containers for disposal.
This material and its container must be disposed of in a safe way, and as per local / national legislation.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7 Handling and storage
7.1. Precautions for safe handling

Precautions for safe handling : Provide appropriate exhaust ventilation at places where dust is formed.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, well ventilated area.
Keep container tightly closed.
Store in a cool place.
Strongly hygroscopic.

7.3. Specific end use(s)

For research purposes only

SECTION 8 Exposure controls/personal protection
8.1. Control parameters

Components with workplace control parameters : Contains no substances with occupational exposure limit values.

8.2. Exposure controls

- **Eye protection** : Safety glasses to standard NIOSH (US) or EN 166 (EU).
- **Skin protection** : Wear suitable protective clothing.
- **Hand protection** : Gloves – Nitrile Rubber (NBR) to standard EN374
- **Respiratory protection** : Dust production: Dust mask with filter type P1.

SECTION 9 Physical and chemical properties
9.1. Physical and chemical properties

- **Appearance**

Appearance : Solid

- **Odour**

Odour : no data available.

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SECTION 9 Physical and chemical properties (continued)

- **Odour threshold**
Odour threshold : No data available.
 - **pH**
pH value : No data available.
 - **Melting point / Freezing point**
Melting point (°C) : 215°C – decomposes on heating.
 - **Initial boiling point – boiling range**
Boiling point (°C) : No data available.
 - **Flash point**
Flash point (°C) : No data available.
 - **Evaporation rate**
Evaporation rate (butylacetate =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 : Not established.
 - **Vapour density**
Relative vapour density (air=1) : No data available.
 - **Relative density**
Density : No data available.
 - **Bulk density**
Density : No data available.
 - **Solubility**
Solubility in water : No data available.
 - **Partition coefficient : n-octanol / water**
Log P n-octanol / water at 20°C : No data available.
 - **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** : No data available.

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SECTION 10 Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Strong oxidizing compounds.

10.4. Conditions to avoid

Conditions to avoid : Heat.

10.5. Incompatible materials

Materials to avoid : Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products : No data available.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity		: Not classified.
Skin corrosion / irritation		: Not classified.
Serious eye damage / irritation		: Not classified.
Respiratory or skin sensitisation		: Not classified.
Germ cell mutagenicity		: Not classified.
Carcinogenicity		: Not classified.
Reproductive toxicity		: Not classified.
STOT – single exposure		: Not classified.
STOT – repeated exposure		: Not classified.
Aspiration hazard		: Not classified.
Potential health effects	Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
	Ingestion	: May be harmful if swallowed.
	Skin	: May be harmful if absorbed through skin. May cause skin irritation.
	Eyes	: May cause eye irritation.

Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Additional information : RTECS: OL5540000

SECTION 12 Ecological information

12.1. Toxicity

No additional information available.

12.2. Persistence - degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

No data available.

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SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging : Dispose of as unused product.

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.

14.7. Transport in bulk according to Annex II of Marpol and the IBC code

Not applicable.

SECTION 15 Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EU) 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

Revision : 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.
: Complete SDS revision

End of document