

**L-Tryptophan****DOC0(186-189)****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(186-189)  
Trade name : L-Tryptophan  
CAS number : 000073-22-3

**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**

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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**L-Tryptophan****DOC0(186-189)****SECTION 3 Composition/information on ingredients****3.1 Substance / Preparation**Molecular weight g/mol : 204.2  
Structural formula: : C<sub>11</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>

| Substance name: | Contents | CAS No: | EC No:    | Annex No: | Ref REACH | Classification |
|-----------------|----------|---------|-----------|-----------|-----------|----------------|
| L-Tryptophan    | > 98.5 % | 73-22-3 | 200-795-6 | --        | --        | --             |

**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.** : No data available**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** : Water spray, Carbon dioxide (CO<sub>2</sub>) or Dry powder.**5.2. Special hazards arising from the substance or mixture****Specific hazards** : Under fire conditions, hazardous fumes will be present.  
: CO<sub>x</sub>, NO<sub>x</sub>.**5.3. Advice for firefighters**

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

**L-Tryptophan****DOC0(186-189)****SECTION 6 Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General precautions** : Avoid raising powdered materials into airborne dust.**Personal precautions** : 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****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****General** : Store in a dry, well ventilated area.**7.2. Conditions for safe storage, including any incompatibilities****Storage** : Store at room temperature.  
Moisture sensitive.  
Hygroscopic.  
Light and moisture sensitive..**7.3. Specific end use(s)**

For research purposes only

**SECTION 8 Exposure controls/personal protection****8.1. Control parameters**

No data available.

**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** : Crystals**Colour** : White**• Odour****Odour** : Odourless.

**L-Tryptophan****DOC0(186-189)****SECTION 9 Physical and chemical properties (continued)**

- Odour threshold  
Odour threshold : Not established.
- pH  
pH value : 5.5 – 7 (10 g/L)
- Melting point / Freezing point  
Melting point (°C) : 280 - 285
- 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) : No data available.
- Relative density  
Relative Density : No data available.  
Bulk density (kg/m3) : Circa 400
- Solubility  
Solubility in water : 10 g/L
- Partition coefficient : n-octanol / water  
Log P octanol / water at 20°C : -1.05
- 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**

Other data : No data available.

**L-Tryptophan****DOC0(186-189)****SECTION 10 Stability and reactivity****10.1. Reactivity**

Stable under normal conditions.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

This product is not hazardous.

**10.4. Conditions to avoid****Conditions to avoid** : Heat.**10.5. Incompatible materials**

Oxidizing agents

**10.6. Hazardous decomposition products**

No data available.

**SECTION 11 Toxicological information****11.1. Information on toxicological effects****Inhalation**

: May cause irritation in the respiratory tract.

**Dermal**

: May cause skin irritation.

**Ocular**

: May cause eye irritation.

**Other**

: See actual entry in RTECS for complete information. YN6130000

**Rabbit oral LD50 (mg/Kg)**

: 16000

**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.

**L-Tryptophan****DOC0(186-189)****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.**12.7. Other adverse effects**

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 13 Disposal considerations****13.1. Waste treatment methods****General** : Avoid release to the environment.  
Dispose in a safe manner in accordance with local / national regulations.**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

**L-Tryptophan****DOC0(186-189)****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**

: 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

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End of document