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**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(150-153)  
**Trade name** : L-Isoleucine  
**CAS number** : 000073-32-5

**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](http://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) No 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 : 131.2 g/mol  
 Structural formula: : C6H13NO2

Substance name:	Contents	CAS No:	EC No:	Annex No:	Ref REACH	Classification
L-Isoleucine	> 98.5 %	73-32-5	200-798-2	--	--	--

### SECTION 4 First aid measures

#### 4.1. Description of first aid measures

- General information** : Get medical advice / attention if you feel unwell.
- Inhalation** : Assure fresh air breathing.
- Skin contact** : Wash skin with mild soap and water.
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Ingestion** : Rinse mouth out with water.

#### 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 (CO2), alcohol-resistant foam or Dry chemical powder.

#### 5.2. Special hazards arising from the substance or mixture

When heated to decomposition, emits toxic fumes. COx NOx

#### 5.3. Advice for firefighters

- Protection against fire** : Wear recommended personal protective equipment.
- Special procedures** : Prevent fire fighting water from entering the environment.

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**SECTION 6 Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. Protective Equipment:** Wear suitable protective equipment.

**6.1.2. For Emergency responders:** No additional information available.

**6.2. Environmental precautions**

Prevent entry to sewers and public waters.

**6.3. Methods and material for containment and cleaning up**

This material and its container must be disposed of in a safe way, and as per local legislation. 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.

**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         | : Safety glasses.   |
| - Skin protection        | : Wear suitable protective clothing.                      |
| - Hand protection        | : Nitrile rubber gloves – Standard EN 374                 |
| - Respiratory protection | : P1 where excessive dust may result, wear approved mask. |

**SECTION 9 Physical and chemical properties**


- **Appearance**

Appearance : Powder

Colour : White

- **Odour**


Odour : Characteristic

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### SECTION 9 Physical and chemical properties (continued)

- **Odour threshold**  
Odour threshold : Not established.
- **pH**  
pH value (20°C) : 5.5 – 6.5 (40 g/L)
- **Melting point / Freezing point**  
Melting point (°C) : Circa 280
- **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) : 3.08
- **Relative density**  
Density : 1No data available.
- **Solubility**  
Solubility in water : 40 g/L (20°C)
- **Partition coefficient : n-octanol / water**  
Log P octanol / water at 20°C : - 2.85
- **Auto-ignition temperature**  
Auto-ignition temperature (°C) : No data available.
- **Thermal decomposition**  
Thermal decomposition (°C) : 284°C
- **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**

This product is non-hazardous.

**10.4. Conditions to avoid**

No additional information available.

**10.5. Incompatible materials**

Stron oxidizers.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products**

: No additional information available.

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

- Inhalation

: Not classified.

- Dermal

: Not classified.

- Ocular

: Not classified.

**SECTION 12 Ecological information**
**12.1. Toxicity**

No data available.

**12.2. Persistence - degradability**

No data available.

**12.3. Bioaccumulative potential**

No additional 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**

**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**

**Special precautions** : 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

### 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 (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

End of document