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## **MATERIAL SAFETY DATA SHEET**

### **DL-LEUCINE**

**MSDS : 328-39-2**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name: DL-LEUCINE**

**CAS#: 328-39-2**

**C.I. No.: Not available.**

**Synonym : (±)-Amino-4-methylpentanoic acid.**

**Chemical Name: Not available.**

**Chemical Formula: C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>**

**Brand: OXFORD**

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification: OXFORD LAB FINE CHEM LLP**  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
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#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
DL-LEUCINE	328-39-2	100

## Section 3: Hazards Identification

### Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Other hazards – None

## Section 4: First Aid Measures

### Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

No data available

## Section 5: Fire and Explosion Data

### Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information : No data available

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.  
For personal protection see section 8.

### Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### Reference to other sections

For disposal see section 13.

## Section 7: Handling and Storage

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Combustible Solids

### Specific end use(s)

No data available

## Section 8: Exposure Controls/Personal Protection

### Control parameters

Components with workplace control parameters

### Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

### Personal protective equipment

Eye/face protection

## Section 8: Exposure Controls/Personal Protection(Continued)

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

- |   |                               |
|---|-------------------------------|
| a) Appearance Form                              | : Powder                      |
|   | Colour : White                |
| b) Odour  | : No data available           |
| c) Odour  | : Threshold No data available |
| d) pH   | : No data available           |
| e) Melting point/freezing point                 | : 293 - 296 °C                |
| f) Initial boiling point and boiling range      | : No data available           |
| g) Flash point                                  | : No data available           |
| h) Evaporation rate                             | : No data available           |
| i) Flammability (solid, gas)                    | : No data available           |
| j) Upper/lower flammability or explosive limits | : No data available           |
| k) Vapour pressure                              | : No data available           |

## Section 9: Physical and Chemical Properties (Continued)

l) Vapour density	: No data available
m) Relative density	: No data available
n) Water solubility	: No data available
o) Partition coefficient: noctanol/ water	: No data available
p) Auto-ignition temperature	: No data available
q) Decomposition temperature	: 295 °C
r) Viscosity	: No data available
s) Explosive properties	: No data available
t) Oxidizing properties	: No data available
u) Molecular Weight	: 131.17 g/mol

### Other safety information

No data available

## Section 10: Stability and Reactivity Data

Reactivity : No data available

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No data available

Conditions to avoid : No data available

Incompatible materials : Strong reducing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)

Other decomposition products - No data available

In the event of fire: see section 5

## Section 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

No data available

## Section 11: Toxicological Information (Continued)

### **Skin corrosion/irritation**

No data available

### **Serious eye damage/eye irritation**

No data available

### **Respiratory or skin sensitisation**

No data available

### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### **Reproductive toxicity**

No data available

### **Specific target organ toxicity - single exposure**

No data available

### **Specific target organ toxicity - repeated exposure**

No data available

### **Aspiration hazard**

No data available

### **Additional Information**

RTECS: OE3201000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., The levorotary (l) forms of leucine, isoleucine, and valine have been found to have tumor-promoting activity for bladder carcinomas.(DL-Leucine)

## Section 12: Ecological Information

### **Toxicity**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Results of PBT and vPvB assessment**

## Section 12: Ecological Information (Continued)

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

No data available

## Section 13: Disposal Considerations

**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

Land transport (ADR-RID)

**General information** : Not regulated.

Sea transport (IMDG) [English only]

**General information** : Not regulated.

Air transport (ICAO-IATA) [English only]

**General information** : Not regulated.

## Section 15: Other Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.

### ***Disclaimer:***

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