

## **MATERIAL SAFETY DATA SHEET**

### **DL-TRYPTOPHAN 99% (For Biochemistry) MSDS CAS : 54-12-6**

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

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

**Product Name : DL-TRYPTOPHAN**

**CAS#: 54-12-6**

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

**Synonym : (±)-2-Amino-3-(3-indolyl)propionic acid / (±)- $\alpha$ -Amino-3-indolepropionic acid  
/ DL-3 $\beta$ Indolylalanine**

**Chemical Name: Not available.**

**Chemical Formula: C<sub>11</sub>H<sub>12</sub>N<sub>2</sub>O<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.  
Mumbai, Maharashtra, INDIA.  
Tel: 91-250-2390989  
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#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
DL-TRYPTOPHAN	54-12-6	99%

## Section 3: Hazards Identification

### Classification of the substance or mixture

**Classification according to Regulation (EC) No 1999/45**

Not classified.

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

Not classified.

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## Section 4: First Aid Measures

### Description of first aid measures

#### **Inhalation**

Assure fresh air breathing. Allow the victim to rest.

#### **Skin contact**

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

#### **Eye contact**

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

#### **Ingestion :**

Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.

### Most important symptoms and effects, both acute and delayed

**Symptoms relating to use** : Not expected to present a significant hazard under anticipated conditions of normal use.

### Indication of any immediate medical attention and special treatment needed

**General information:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## Section 5: Fire and Explosion Data

### Extinguishing media

#### Extinguishing media

##### Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

##### Unsuitable extinguishing media

: Do not use a heavy water stream.

##### Surrounding fires

: Use water spray or fog for cooling exposed containers.

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

##### Hazardous combustion products

: Under fire conditions, hazardous fumes will be present.

#### Advice for fire-fighters

##### Protection against fire

: Do not enter fire area without proper protective equipment,  
Including respiratory protection.

##### Special procedures

: Exercise caution when fighting any chemical fire. Avoid (reject)  
fire-fighting water to enter environment.

## Section 6: Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

##### For emergency responders

: Equip cleanup crew with proper protection.  
Ventilate area.

##### For non-emergency personnel

: Evacuate unnecessary personnel.

#### Environmental precautions

##### Environmental precautions

: Prevent entry to sewers and public waters. Notify authorities if  
product enters sewers or public waters.

#### Methods and materials for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust.  
Store away from other materials.

## Section 7: Handling and Storage

#### Precautions for safe handling

##### Handling

: Wash hands and other exposed areas with mild soap and water  
before eat, drink or smoke and when leaving work.

## Section 7: Handling and Storage (Continued)

Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour.
Special precautions	: Avoid breathing dust, fume, gas, mist, vapours, spray.
Conditions for safe storage, including any incompatibilities	
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.
Specific <u>end uses</u>	
Specific end use(s)	: None.

## Section 8: Exposure Controls/Personal Protection

Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: Wear approved mask.
• Hand protection	: Wear protective gloves.
• Eye protection	: Chemical goggles or safety glasses.
• Others	: When using, do not eat, drink or smoke.
Control parameters	
Occupational Exposure Limits	: No data available.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state at 20 °C	: Solid.
Color	: White crystalline
Odor	: Odourless
Odor threshold	: No data available.
pH value	: Not applicable
Melting point [°C]	: 289 - 290 °C
Decomposition point [°C]	: No data available.

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

Critical temperature [°C]	: No data available.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: No data available.
Flash point [°C]	: No data available.
Boiling point [°C]	: No data available.
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: No data available.
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: No data available.
Vapour density	: No data available.
Density [g/cm <sup>3</sup> ]	: No data available.
Relative density, gas (air=1)	: No data available.
Relative density, liquid (water=1)	: No data available.
Solubility in water [% weight]	: Partially soluble in
Log Pow octanol / water at 20°C	: No data available.
Viscosity at 40°C [mm <sup>2</sup> /s]	: No data available.
Molecular Weight	: 204.23

### Other information

Explosive properties	: No data available.
Explosion limits - upper [%]	: No data available.
Explosion limits - lower [%]	: No data available.
Oxidizing properties	: No data available.

## Section 10: Stability and Reactivity Data

### Reactivity

Reactivity : Not established.

### Chemical stability

Chemical stability : Stable under recommended storage conditions.

## Section 10: Stability and Reactivity Data (Continued)

### Possibility of hazardous reactions

**Hazardous reactions** : Not established.

### Conditions to avoid

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

### Incompatible materials

**Materials to avoid** : Strong acids. Strong bases.

### Hazardous decomposition products

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.

## Section 11: Toxicological Information

### Information on toxicological effects

#### **Acute toxicity**

• Inhalation	: Based on available data, the classification criteria are not met.
• Dermal	: Based on available data, the classification criteria are not met.
• Ingestion	: Based on available data, the classification criteria are not met.
<b>Corrosion</b>	: Based on available data, the classification criteria are not met.
<b>Irritation</b>	: Based on available data, the classification criteria are not met.
<b>Sensitization</b>	: Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met.
<b>Toxic for reproduction</b>	: Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	: Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	: Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	: Based on available data, the classification criteria are not met.

## Section 12: Ecological Information

### Toxicity

Toxicity information : Not established.

### Persistence – degradability

Persistence - degradability : Biodegradable.

### Bio accumulative potential

Bio accumulative potential : Not established.

### Mobility in soil

Mobility in soil : Not established.

### Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### Other adverse effects

Environmental precautions: Avoid release to the environment.

## Section 13: Disposal Considerations

### Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

## Section 14: Transport Information

### Land transport (ADR-RID)

General information : Not regulated.

### Sea transport (IMDG)

General information : Not regulated.

### Air transport (ICAO-IATA)

General information : Not regulated.



## Section 15: Other Regulatory Information

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

**Safety, health and environmental:** Ensure all national/local regulations are observed.

**Regulations/legislation specific for**

**The substance or mixture**

**REACH Restrictions - Annex XVII:** The components of this product are not subject to restrictions.

**REACH Authorization - Annex XIV:** The components of this product are not subject to authorization.

### Chemical Safety Assessment

**Chemical Safety Assessment:** It has not been carried out.

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.

### ***Disclaimer:***

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