

L-TYROSINE	MATERIAL SAFETY DATA SHEET
CAS No 60-18-4	SDS/MSDS

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

1.1	Product identifiers Product name	:	L-Tyrosine	
	CAS-No.	:	60-18-4	
1.2	2 Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.	
1.3	3 Details of the supplier of the safety data sheet			
	Company	:	Central Drug House (P) Ltd 7/28 Vardaan House New Delhi -110002 INDIA	
	Telephone Email	:	+91 11 49404040 <u>care@cdhfinechemical.com</u>	
1.4	Emergency telephone number			

# Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

# **SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture Not a hazardous substance or mixture.
- 2.2 Label elements

Not a hazardous substance or mixture.

# 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Synonyms	: (S)-2-Amino-3-(4-hydroxyphenyl)propionic acid 3-(4-Hydroxyphenyl)-L-alanine
Formula Molecular weight CAS-No.	: C <sub>9</sub> H <sub>11</sub> NO <sub>3</sub> : 181.19 g/mol : 60-18-4
EC-No.	: 200-460-4

No components need to be disclosed according to the applicable regulations.

#### **SECTION 4: First aid measures**

#### 4.1 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.

- **4.2** Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

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

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx)
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

#### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
- 6.2 Environmental precautions No special environmental precautions required.
- **6.3 Methods and materials for containment and cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

#### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
- 7.2 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): Non Combustible Solids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# 8.2 Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

### Personal protective equipment

## Eye/face protection

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.

#### **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

No special environmental precautions required.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Form: Fine crystals and fragments a) Appearance Colour: white No data available b) Odour C) Odour Threshold No data available No data available d) bН Melting point/freezing Melting point/range: 343 °C e) point Initial boiling point and No data available f) boiling range Flash point No data available g) h) Evaporation rate No data available Flammability (solid, gas) No data available i) Upper/lower No data available i) flammability or explosive limits k) Vapour pressure No data available I) Vapour density No data available m) Relative density No data available Water solubility 0.479 g/l at 25 °C n)

- o) Partition coefficient: n- log Pow: -2.259 at 25 °C octanol/water
- p) Auto-ignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available
- **9.2 Other safety information** Dissociation constant 2.2 at 25 °C

# **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3** Possibility of hazardous reactions No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Strong oxidizing 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**

#### 11.1 Information on toxicological effects

#### Acute toxicity

No data availableL-Tyrosine Inhalation: No data available

Inhalation: No data available(L-Tyrosine) LD50 Intraperitoneal - Mouse - > 1,450 mg/kg(L-Tyrosine)

# Skin corrosion/irritation

No data available(L-Tyrosine)

#### **Serious eye damage/eye irritation** No data available(L-Tyrosine)

**Respiratory or skin sensitisation** No data available(L-Tyrosine)

# Germ cell mutagenicity

No data available(L-Tyrosine)

#### 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(L-Tyrosine)

#### **Specific target organ toxicity - single exposure** No data available(L-Tyrosine)

# Specific target organ toxicity - repeated exposure

No data available

# Aspiration hazard

No data available(L-Tyrosine)

# **Additional Information**

RTECS: YP2275600 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(L-Tyrosine)

# **SECTION 12: Ecological information**

- 12.1 Toxicity No data available
- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available(L-Tyrosine)

# 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects** No data available

# **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	<b>UN numbe</b> ADR/RID:	-	IMDG: -	IATA: -
14.2		<b>shipping name</b> Not dangerous goods Not dangerous goods Not dangerous goods		
14.3	Transport hazard class(es) ADR/RID: -		IMDG: -	IATA: -
14.4	Packaging group ADR/RID: -		IMDG: -	IATA: -
14.5	<b>Environmental hazards</b> ADR/RID: no		IMDG Marine pollutant: no	IATA: no
14.6	<b>Special pr</b> No data av	ecautions for user ailable		

## **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 (EC) No. 1907/2006.

# **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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.