



SHANDONG YANGCHENG BIOTECHNOLOGY CO., LTD.
NO 1666 DONGHUAN ROAD JUANCHENG COUNTY 274600 CHINA
Tel: +86-537-8956880 Website: www.yangchengshengwu.com

Material Safety Data Sheet

L- Tyrosine

SECTION 1 - CHMICAL PRODUCT COMPANY IDENTIFICATION

1 . 1 Chemical Product

MSDS Name: L- Tyrosine Material Safety Data Sheet

Synonyms: L-(-)-Tyrosine; para-Tyrosine; L-p-Tyrosine; p-Tyrosine; (S)-Tyrosin; Tyr

CAS No.: 60- 18-4

1 . 2 Details of the supplier of the safety data sheet

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Section 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye: May cause eye irritation. It is not classified as a hazardous substance according

Skin: May cause skin irritation. to EU regulation 1272/2008-CL.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation . The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
60- 18-4	L- Tyrosine	98.5%- 101.5%	200-460-4

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

Section 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing



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contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportable.

Section 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. May form flammable dust-air mixtures. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:



Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 60-18-4: Russia: 5 mg/m³

TWA Personal Protective

Equipment Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910 . 133 or European Standard EN166 . Skin: Wear appropriate protective gloves to prevent skin exposure .

Clothing: Wear appropriate protective clothing to prevent skin exposure .

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910 . 134 and ANSI Z88 .2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use .

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystalline powder;

Color: colorless or white

Odor: none reported;

pH: Not available.

Vapor Pressure: Negligible;

Viscosity: Not available.

Boiling Point: Not available;

Freezing/Melting Point: 290 -295 deg C (dec)

Autoignition Temperature: Not applicable;
Explosion Limits, lower: Not available;

Flash Point: Not applicable.

Decomposition Temperature: 295 deg C;
Specific Gravity/Density: 1.34 (water= 1);

Explosion Limits, upper: Not available.

Molecular Weight: 181.0819

Solubility in water: Slightly soluble.

Molecular Formula: C₉H₁₁NO₃

Section 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS# :

CAS# 60- 18-4: YP2275600 LD50/ LC50: Not available.

Carcinogenicity: L- (-)-Tyrosine - Not listed by ACGIH, IARC, or NTP.

Other: See actual entry in RTECS for complete information.



Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity: N/A

Persistence and degradation: N/A

Potential bioaccumulation: N/A

The migration of in soil: N/A

The evaluation results of vPvB and PBT: N/A

Other adverse effects: N/A

Section 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - TRANSPORT INFORMATION

IATA: Not regulated as a hazardous material.

IMO: Not regulated as a hazardous material.

RID/ADR: Not regulated as a hazardous material.

Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 60- 18-4: 0

Canada

CAS# 60- 18-4 is listed on Canada's DSL List.

CAS# 60- 18-4 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 60- 18-4 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL 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



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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. Shandong Yangcheng Biotechnology Co., LTD. shall not be held liable for any damage resulting from handling or from contact with the above product.

Date: 2024.02.28

