

化学品安全技术说明书

SAFETY DATA SHEET

按照 GB/T 16483 GB/T 17519 编制

L-酪氨酸

L-tyrosine

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1. 化学品及企业标识/Product and company identifiers

1.1 产品标识/Product identifiers

产品名称/Product name: L-酪氨酸 L-tyrosine
产品编号/Product number: VBL-NP-052
品牌/Brand: 唯铂莱 Viablif
化学文摘登记号(CAS No.): 60-18-4

1.2 安全技术说明书提供者的详情/Details of the supplier of the safety data sheet

制造商或供应商名称/Company: 杭州唯铂莱生物科技有限公司
浙江省杭州市余杭区良渚街道大学科技园 5 号楼
邮政编码: 311113
Hangzhou Viablif Biotech Co., Ltd.
Building 5, University Science Park Of Liangzhu, Liangzhu District
311113, Hangzhou, China
电话号码/Telephone: +86 571 887 668 06
传真/Fax: +86 571 887 668 36

1.3 应急咨询电话/Emergency telephone

紧急联系电话/Emergency Phone #: +86 571 887 668 06

1.4 有关的确定了的物质或混合物的用途和建议不适合的用途

Relevant identified uses of the substances or mixture and uses advised against

已确认的各用途/Identified uses: 一般化学品, 仅作为研究及分析使用, 不可作为食品、药品等用途使用。

General chemicals, for research and analytical use only, not for use as food, drugs, etc.

2 危险性概述/Hazards identification

2.1 GHS 危险性类别/Classification acc. To GHS

非危险性物质或混合物。

Non-hazardous substances or mixtures.

2.2 GHS 标签要素, 包括防范说明/Label elements, including precautionary statement(s)

非危险性物质或混合物。

Non-hazardous substances or mixtures.

2.3 健康危害/Health hazard

目前掌握信息, 没有健康危害。

No health hazard, as far as we know.

2.4 环境危害/Environmental hazards

目前掌握信息, 没有健康危害。

No health hazard, as far as we know.

2.5 其他危害物/Other hazards

无相关信息。

There is no additional information.

3. 成分/组成信息/Composition/information on ingredients

3.1	组分 Component	分子式 Molecular formula	浓度或浓度范围 Concentration
	L-酪氨酸 L-tyrosine		
		C ₉ H ₁₁ NO ₃	99-100%

4. 急救措施/First aid measures

4.1 必要的急救措施描述/Description of first aid measures

一般告知/General notes

移除受污染的衣物。

Take off contaminated clothing.

吸入处理/Following inhalation

提供新鲜空气。如症状持续或无法处理，请联系医疗人员。

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

皮肤接触处理/Following skin contact

使用流动的水或喷淋器进行冲洗。如产生皮肤刺激，请咨询医疗人员。

Rinse skin with water/shower. In case of skin irritation, consult a physician.

眼部接触处理/Following eye contact

拉开眼睑，使用大量洁净清水冲洗至少 10 分钟。如产生眼部刺激情况，请咨询眼科医生。

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

误食处理/Following ingestion

冲洗口腔，如有不适，请咨询医疗人员。

Rinse mouth. Call a doctor if you feel unwell.

4.2 最重要的症状和健康影响/Most important symptoms and effects, both acute and delayed

非危险性物质或混合物。目前掌握信息，没有健康危害。

Non-hazardous substances or mixtures. No health hazard, as far as we know.

4.3 及时的医疗处理和所需的特殊处理的说明/Indication of any immediate attention and special treatment needed

无。None.

4.4 对医生的特别提示/Special indications for physicians

无。None.

5. 消防措施/Firefighting measures

5.1 灭火介质/Extinguishing media

灭火方法及灭火剂/Suitable extinguishing media

可采用水喷雾、泡沫灭火、干粉灭火或二氧化碳灭火，根据现场火情协调采取措施。

Co-ordinate firefighting measures to the fire surroundings, water spray, foam, dry extinguishing powder, carbon dioxide (CO₂).

5.2 源于此物质或混合物的特别危害/Special hazards arising from the substance or mixture

本品可燃。Combustible.

5.3 给消防员的建议/Advice for firefighters

适当距离下用常规措施进行灭火，佩戴自给式呼吸装置。

Fight fire with normal precautions from a reasonable distance, wear self-contained breathing apparatus.

6. 泄漏应急处理/Accidental release measures

- 6.1 人员防护措施、防护装备和应急处理程序/Personal precautions, protective equipment and emergency procedures**
避免与皮肤、眼和服装直接接触，切勿吸入浮尘。
Avoid contact with skin, eyes and clothes. Do not breathe dust.
- 6.2 环境保护措施/Environmental precautions**
远离排水口、地表水和地下水。
Keep away from drains, surface and ground water.
- 6.3 泄漏化学品的收容、清除方法及所使用的处置材料/Methods and materials for containment and cleaning up**
控制泄漏的建议/Advice on how to contain a spill
覆盖排水口。
Covering of drains.
清理泄漏物的建议/Advice on how to clean up a spill
机械方式处理，并减少灰尘产生。
Take up mechanically, control of dust.
与泄露有关的其他信息/Other information relating to spills and releases
至于适当的容器中进行处理。
Place in appropriate containers for disposal.
- 6.4 参考其他部分/Reference to other sections**
燃烧产生的有害物质：详见第 5 部分。
Hazardous combustion products: see section 5.
个人防护设备：详见第 8 部分。
Personal protective equipment: see section 8.
禁配物信息：详见第 10 部分。
Incompatible materials: see section 10.
废弃处置：详见第 13 部分。
Disposal considerations: see section 13.
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- 7. 操作处置与储存/Handling and storage**
- 7.1 安全操作的注意事项/Precautions for safe handling**
提供足够的通风条件。
Provision of sufficient ventilation.
一般职业卫生建议/Advice on general occupation hygiene
工作休憩及工作后需洗手，原理食品、饮料及动物。
- 7.2 安全储存的条件，包括任何不兼容性/Conditions for safe storage, including any incompatibilities**
储存在干燥的地方，并保持容器密闭。
Store in a dry place. Keep container tightly closed.
禁配物/Incompatible substances or mixtures
请遵循混合储存的提示。
Observe hints for combined storage.
其他建议/Consideration of other advice
- **通风要求/Ventilation requirements**
一般或局部通风条件。
Use local and general ventilation.
 - **储存室或容器的要求/Specific designs for storage rooms or vessels**
建议储存温度：15-25℃。
Recommended storage temperature: 15 – 25 °C.
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- 8. 接触控制和个体防护/Exposure controls/personal protection**

8.1 职业接触限值/Control parameters

危害组成及职业接触限值/Occupational exposure limit values (Workplace Exposure Limits)

无相关数据。

No data available.

8.2 暴露控制/Exposure controls

个人防护/Personal protective equipment

眼部及面部防护/Eye, face protection

佩戴护目镜及防护面罩。

Use safety goggle with side protection.

皮肤防护/Skin protection

• **手部防护/ hand protection**

佩戴合适的手套，推荐符合 EN 374 要求的化学防护手套。

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

特殊情况下，请与供应商确认上述防护手套的耐化学性能。所有性能参数都是在 22 摄氏度及长期接触下测定的近似值。受到材质、体温等影响造成温度升高，以及拉伸导致的有效层厚度下降，都会导致穿透时间的大大缩短。如有疑问，请联络制造商。

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. 层厚每增加 1.5 倍，各时间参数会增减一半。

At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved.

数据仅针对纯化学品，当对象为混合物时，上述仅能作为指导数据使用。

The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• **材质/type of material**

丁腈橡胶

NBR (Nitrile rubber)

• **材质厚度/material thickness**

>0.11 mm

• **材质穿透时间/breakthrough times of the glove material**

>480 minutes (permeation: level 6)

• **其他防护措施/other protection measures**

皮肤修复需要时间周期，建议使用隔离霜或药膏进行预防性保护。

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

呼吸系统保护/Respiratory protection

形成粉尘情况下需进行呼吸系统保护。推荐采用 EN 143 规格的呼吸过滤器。白色 P1 级可过滤空气中 80% 以上颗粒。

Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

环境暴露控制/Environmental exposure controls

原理排水口、地表水和地下水。

Keep away from drains, surface and ground water.

9. 理化特性/Physical and chemical properties

9.1 基本的理化特性信息/Information on basic physical and chemical properties

外观/Appearance

状态 Physical state	固体（粉末， 结晶体） solid (powder, crystalline)
颜色 Colour	白色 White
气味 Odour	无味 odourless
气味阈值 Odour threshold	无相关数据 no data available

其他理化性质/Other physical and chemical parameters

pH 值 (pH value)	暂无数据 This information is not available
熔点/冰点 Melting point/freezing point	290℃
沸点与沸程 Initial boiling point and boiling range	暂无数据 This information is not available
闪点 Flash point	176℃
蒸发速率 Evaporation rate	无相关数据 no data available
易燃性（固体， 气体） Flammability (solid, gas)	暂无数据 This information is not available
爆炸极限 Explosive limits	
爆炸下限 Lower explosion limit (LEL)	暂无数据 This information is not available
爆炸上限 Upper explosion limit (UEL)	暂无数据 This information is not available
粉尘爆炸极限 Explosion limits of dust clouds	暂无数据 This information is not available
蒸气压 Vapour pressure	暂无数据 This information is not available
密度 Density	暂无数据 This information is not available
蒸气密度 Vapour density	暂无数据 This information is not available
相对密度 Relative density	暂无数据 This information is not available
溶解能力 Solubility(ies)	
水溶性 Water solubility	0.479 g/L 在 25℃
分配系数 Partition coefficient	
正辛醇/水分配系数 N-octanol/water (log KOW)	暂无数据 This information is not available
自燃温度 Auto-ignition temperature	暂无数据 This information is not available
分解温度 Decomposition temperature	暂无数据 This information is not available
黏度 Viscosity	固体物无关 Not relevant (solid matter)
爆炸特性 Explosive properties	非爆炸物质 Shall not be classified as explosive
氧化特性 Oxidizing properties	无 None

9.2 其他安全数据/Other information

无其他相关信息。

There is no additional information.

10. 稳定性和反应活性/Stability and reactivity

10.1 稳定性/Chemical stability

在建议的贮存条件下是稳定的。

Stable under recommended storage conditions.

10.2 危险反应/Reactivity

与强氧化剂易发生反应。

Violent reaction with: Strong oxidizer.

10.3 应避免的条件/Conditions to avoid

远离热源。

Keep away from heat.

10.4 禁配物/Incompatible materials

强氧化剂。

Strong oxidizer.

10.5 危险的分解产物/Hazardous decomposition products

燃烧后可能释放一氧化碳和二氧化碳。

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO₂).

11. 毒理学信息/Toxicological information

11.1 毒理学影响的信息/Information on toxicological effects

急性毒性/Acute toxicity

非急性毒性物质。

Shall not be classified as acutely toxic.

皮肤腐蚀/刺激/Skin corrosion/irritation

引发皮肤刺激。

Causes serious eye irritation.

严重眼睛损伤/眼刺激/Serious eye damage/eye irritation

引发严重眼睛损伤。

Causes serious eye irritation.

呼吸道或皮肤过敏/Respiratory or skin sensitization

不会引起呼吸道或皮肤过敏。

Shall not be classified as a respiratory or skin sensitizer.

生殖细胞致突变性/Germ cell mutagenicity

不会引起生殖细胞突变。

Shall not be classified as germ cell mutagenic toxicant.

致癌性/Carcinogenicity

没有致癌风险。

Shall not be classified as carcinogenic toxicant.

生殖毒性/Reproductive toxicity

没有生殖毒性。

Shall not be classified as reproductive toxicant.

特异性靶器官系统毒性（一次接触）/Specific target organ toxicity – single exposure

可能诱发呼吸道刺激。

May cause respiratory irritation.

特异性靶器官系统毒性（反复接触）/Specific target organ toxicity – repeated exposure

不会引起特异性靶器官系统毒性（反复接触）。

Shall not be classified as a specific target organ toxicant (repeated exposure)

吸入危害/Aspiration hazard

无吸入危害风险。

Shall not be classified as presenting an aspiration hazard.

附加说明/Additional information

无。

None.

12. 生态学资料/Ecological information

12.1 生态毒性/Toxicity

根据 1272/2008/EC，不视为水环境有害物质。

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

12.2 持久性和降解性/Persistence and degradability

无相关数据。

No data available.

12.3 生物蓄积潜力/Bioaccumulative potential

在生物体内无明显富集。

Does not significantly accumulate in organisms.

12.4 土壤中的迁移性/Mobility in soil

无相关数据。

No data available.

12.5 PBT 和 vPvB 的结果评价/Results of PBT and vPvB assessment

由于化学品安全评估未要求/未开展，因此 PBT/vPvB 评估不可用。

No data available.

12.6 其他环境有害作用/Other adverse effects

无相关数据。

No data available.

13. 废弃处置/Disposal considerations

13.1 废物处理方法/Waste treatment methods

产品/Product

将剩余的和不可回收的溶液交给有许可证的机构处理。

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

污染包装物/Contaminated packaging

按未用产品处置。

Dispose of as unused product.

14. 运输信息/Transport information

14.1 联合国编号 / UN number

欧洲陆运危规 / ADR/RID: \

国际海运危规 / IMDG: \

国际空运危规 / IATA-DCR: \

14.2 联合国运输名称 / UN proper shipping name

欧洲陆运危规: \

ADR / RID: \

国际海运危规: \

IMDG: \

国际空运危规: \

IATA-DGR: \

14.3 运输危险类别 / Transport hazard class(es)

欧洲陆运危规 / ADR/RID: \

国际海运危规 / IMDG: \

国际空运危规 / IATA-DCR: \

14.4 包裹组 / Packaging group

欧洲陆运危规 / ADR/RID: \

国际海运危规 / IMDG: \

国际空运危规 / IATA-DCR: \

14.5 环境危害 / Environmental hazards

欧洲陆运危规 / ADR/RID: \

国际海运危规 海洋污染物 (是/否) / IMDG Marine pollutant: \

国际空运危规 / IATA-DCR: \

14.6 特殊防范措施 / Special precautions for user

请根据化学品性质选择合适的运输工具及相应的运输储存条件。

Choose appropriate and corresponding transportation and storage conditions according to the nature of the chemical.

运输工具应配备相应品种和数量的消防器材及泄漏应急处理设备。

Transportation should be equipped with the appropriate variety and quantity of firefighting and leak emergency treatment equipments.

如选择公路运输，请按规定路线行驶。

Following the prescribed route if choosing road transportation.

15. 法规信息/Regulatory information

15.1 专门对此物质或混合物的安全，健康和环境的规章 / 法律

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

适用法规

国别 Country	名录清单 National inventories	收录情况 Status
加拿大 CA	NDSL	已收录 substance is listed
中国 CN	IECSC	已收录 substance is listed
欧盟 EU	ECSI	已收录 substance is listed
欧盟 EU	REACH Reg.	已收录 substance is listed
新西兰 NZ	NZIoC	已收录 substance is listed
美国 US	TSCA	已收录 substance is listed

其他的规定

无。

None.

15.2 化学安全评估/Chemical safety assessment

无相关数据。

No chemical safety assessment has been carried out for this substance.

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

本文件中的信息是基于我们目前所知，就正确的安全提示来说适用于本品。

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.

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