

Jing Jing Pharmaceutical Co.,Ltd

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Material Safety Data Sheet

材料安全数据表

L-Citrullinine

L-瓜氨酸

Section 1 - Chemical Product and Company Identification 第1节-化学产品和公司标识

MSDS Name:Citrulline 材料名称:L-瓜氨酸

Company Identification 公司标识:

Jingjing Pharmaceutical Co., Ltd 精晶药业股份有限公司

Add: The Xingtai City Caozhuang Management District, Hebei, China

地址:邢台市曹庄管理区,河北,中国

For information, call 电话: +86-311-83078783

Section 2 - Composition, Information on Ingredients 第2节-成分,成分信息

CAS#	Chemical Name 化学名称	Percent 百分比	EINECS/ELINCS
372-75-8	L-Citrullinine L-瓜氨酸	98.5% -101.0%	206-759-6

Hazard Symbols **危险性符号**: None listed. 没有列入。 Risk Phrases **风险术语**: None listed. 没有列入。

Section 3 - Hazards Identification 第 3 节-危害识别

EMERGENCY OVERVIEW 急救概述

Appearance 外观: white crystalline powder.白色结晶性粉末 Caution! 注意安全!The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Light sensitive. Moisture sensitive. 这种材料的毒理学特性尚未得到充分的研究。可能引起眼睛和皮肤的刺激。可能引起呼吸道和消化道发炎。光敏感。湿度敏感。

Target Organs: No data found. 目标器官:没有发现数据。

Potential Health Effects 潜在的健康影响

Eye: May cause eye irritation. 眼睛:可能引起眼睛发炎。

Skin: May cause skin irritation. May cause erythema (redness) and edema (fluid

buildup) with crusting and scaling.

皮肤:可能引起皮肤发炎。可能引起红斑(发红)和水肿(液体潴留)与结皮和结垢。

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

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

摄入:可能引起胃肠刺激,伴有恶心、呕吐和腹泻。这种物质的毒理学性质还没有得到充分的研究。Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

吸入:可引起呼吸道刺激。这种物质的毒理学性质还没有得到充分的研究

Chronic: No information found

慢性:没有发现信息

Section 4 - First Aid Measures

第4节急救措施

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

眼睛:用大量水冲洗眼睛至少15分钟,抬起上眼睑。使得到医疗救助。

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

皮肤:在去除污染的衣服和鞋子的同时,用大量的水冲洗皮肤至少 15 分钟。洗衣服后再使用。 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.

摄食:不要给无意识的人任何吃的东西。以免引起呕吐。如果清醒,漱口并喝 2-4 杯牛奶或水。 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.

吸入:把人立即移至新鲜空气处。如果不呼吸,进行人工呼吸。如果呼吸困难,输氧。使得到医疗救助。

Notes to Physician: Treat symptomatically and supportively.

医生须知:积极治疗。

Section 5 - Fire Fighting Measures

第5节-消防措施

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.

一般信息:在任何火灾中,在压力要求下穿戴自给式呼吸器,医院管理学硕士/国立职业安全与健

康(批准或等效),和全保护装置。足够浓度的粉尘可与空气形成爆炸混合物。在火灾中,可通过热分解或燃烧产生刺激性和高毒性的气体。不可燃的,物质本身不会燃烧,但在加热时会分解,产生刺激性、腐蚀性和/或有毒气体。

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

灭火介质:物质是不可燃的;使用最合适的灭火剂扑灭周围的火灾。不要在容器内取水。使用水喷雾、干粉、二氧化碳或适当的泡沫。

Flash Point 闪点: Not applicable 不适用.

Autoignition Temperature 自燃温度: Not applicable. 不适用

Explosion Limits, Lower 爆炸下限: Not available. 不适用

Upper 爆炸上限: Not available. 不适用

NFPA Rating 美国评级: (estimated) Health (估计)健康: 1; Flammability 易燃性:0;

Instability 不稳定: 0

Section 6 - Accidental Release Measures

第6节-意外释放措施

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

一般情况:如第8节所示,使用适当的个人防护装备。

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers.

溢出/泄漏:真空或清扫材料,放入合适的处理容器。立即清理溢出物,注意保护设备部分的预防措施。避免产生尘土飞扬的状况。提供通风。不要在容器内取水。

Section 7 - Handling and Storage

第7节搬运和储存

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Store protected from light. Do not allow contact with water. Keep from contact with moist air and steam.

处理:处理后彻底清洗。去除污染衣物并在重新使用前清洗。充分通风使用。减少粉尘的产生和积累。避免接触眼睛、皮肤和衣物。保持容器紧闭。避免摄入和吸入。避光保存。不允许与水接触。避免与潮湿空气和蒸汽接触。

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

储存:储存在密闭容器中。存放在阴凉,干燥,通风良好的地方,远离不相容的物质。防潮、避 光贮存,保存。

Section 8 - Exposure Controls, Personal Protection

第8节-曝光控制,个人防护

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.

工程控制:设备存储或利用该材料应配备现代化设施和安全淋浴。使保持通风以保持空气浓度低。 Exposure Limits 暴露限值

Chemical Name 化学名称	ACGI H 美国政府工业卫生学 家会议	NIOSH 国立职业安全 与健康研究所	OSHA - Final PELs
Citrullinine 瓜氨酸	none listed 没有列入	none listed 没有列入	none listed 没 有列入

OSHA Vacated PELs 空白弹性极限: Citrullinine 瓜氨酸: No OSHA Vacated PELs are listed for this chemical. 这个化学品的空白弹性极限没有被列入 OSHA。

Personal Protective Equipment 个人防护设备

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.

眼睛:穿戴合适的防护眼镜或化学安全护目镜,如 29 CFR 1910.133 或欧洲标准 EN166 OSHA 的眼睛和面部防护法规介绍。

Skin: Wear appropriate protective gloves to prevent skin exposure.

皮肤: 戴适当防护手套, 防止皮肤外露。

Clothing: Wear appropriate protective clothing to prevent skin exposure.

衣服:穿适当的防护服以防皮肤外露。

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.

呼吸器:一种符合 OSHA的 29 CFR 1910.134和 ANSI z88.2要求或欧洲标准 EN 149必须随着工作条件需要使用呼吸器的呼吸保护计划。

Section 9 - Physical and Chemical Properties 第9节-物理和化学性质

Physical State: crystalline or crystalline powder

物理状态:结晶或结晶性粉末

Appearance: white

外观:白色

Odor: none reported

气味:无报道 pH: 5.0-7.0.

Vapor Pressure: Negligible.

蒸汽压:可以忽略不计

Vapor Density: Not available.

蒸汽密度:不适用。

Evaporation Rate: Negligible.

蒸发率: 微不足道。

Viscosity: Not available.

粘度:不适用。

Boiling Point: Not available.

沸点:不适用。

Freezing/Melting Point: Not available.

冻/熔点:不适用

Decomposition Temperature: Not available.

分解温度:不适用

Solubility: Easy to dissolve in water.

溶解度:易溶于水。

Specific Gravity/Density: Not available.

比重/密度:无数据

Molecular Formula: C6H13N3O3

分子式: C6H13N3O3

Molecular Weight: 175.19

分子量:175.19

Section 10 - Stability and Reactivity

第10节-稳定性和反应性

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions. Materials containing similar functional groups can decompose at elevated temperatures.

化学稳定性:常温下常温密闭容器中稳定。含有类似官能团的材料在高温下能分解。

Conditions to Avoid: High temperatures, incompatible materials, light, dust generation, moisture.

避免的条件:高温,不相容材料,光,产生灰尘,湿气。

Incompatibilities with Other Materials: Nitrogen oxides, carbon monoxide,

irritating and toxic fumes and gases, carbon dioxide.

与其它材料的相容性:强氧化剂、水分。

Hazardous Polymerization: Has not been reported.

危险聚合:尚未报告。

Section 11 - Toxicological Information

第11节-毒理学信息

RTECS#:化学物质毒性作用登记联机数库编号:

CAS#中国科学院编号:

LD50/LC50:

CAS# 372-75-8: Not available. 不适用

Carcinogenicity 致癌性:

CAS# 372-75-8: Not listed by ACGIH(美国政府工业卫生学家会议), IARC(国际癌症研究署),

NTP (国立职业安全与健康研究所), or CA Prop 65.

CAS# 372-75-8: 没有被 ACGIH, IARC, NIOSH, NTP, or OSHA 列入.

Epidemiology: No information found

流行病学:无数据可用。

Teratogenicity: No information found

致畸性:无数据

Reproductive Effects: No information found

生殖危害:没有可用数据。

Mutagenicity: Mutagenic effects have occurred in experimental animals.

神经毒性:无可用数据。

Neurotoxicity: No information found

致突变性:突变型发生在实验动物身上。

Other Studies:

其他研究:没有可用信息。

Section 12 - Ecological Information

第12节-生态信息

No information available.

没有可用信息。

Section 13 - Disposal Considerations

第13节处置的考虑

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

化学废物发生器必须确定是否废弃的化学品被列为危险废物。美国环保局的分类确定指南列在40

CFR 部分 261.3 中。此外,废物发生器必须参照国家和地方危险废物条例,以确保完整和准确的

分类。

RCRA 资源保护与恢复法 P-Series: None listed. 没有列入。

RCRA 资源保护与恢复法 U-Series: None listed. 没有列入。

Section 14 - Transport Information 第14节-运输信息

NON-HAZARDOUS FOR AIR ,SEA AND ROAD TRANSPORT

NOT REGULATED BY IMO/IMDG

	US DOT 美国运输 部	I ATA 国际航空运输协会	RID <美>(联 邦通讯委员 会)无线电情 报处/ADR事 故数据记录器	IMO 国际海 事组织	Canada TDG 加拿大贸易
Shipping Name м∕∽.	No information available. 无适用信息				No information available. 无适用信息
Hazard Class 危险等级:					
UN Number 联 合国编号:					
Packing Group 包装等级:					

Section 15 - Regulatory Information 第15节-监管信息

US FEDERAL 美国联邦

TSCA <美>有毒物质管理法

CAS# 372-75-8 is not listed on the TSCA inventory.

CAS# 372-75-8 没有被列在 TSCA 的目录上

Health & Safety Reporting List 健康与安全报告单

None of the chemicals are on the Health & Safety Reporting List.

这个化学品不在健康和安全报告单上。

Chemical Test Rules 化学检验规则

None of the chemicals in this product are under a Chemical Test Rule.

本产品中没有任何化学品不符合化学试验规程

Section 12b 第 12 节

None of the chemicals are listed under TSCA Section 12b.

本品没有被列入<美>有毒物质管理法第12节。

TSCA Significant New Use Rule<美>有毒物质管理法的重要新用途规则
None of the chemicals in this material have a SNUR under TSCA.

这个物质的化学物质在<美>有毒物质管理法中没有重要新用途。

CERCLA Hazardous Substances and corresponding RQs

综合环境反应,补偿与债务法案有害物质和相应的评价

None of the chemicals in this material have an RQ.

这个物质的化学物质没有被评价

SARA Section 302 Extremely Hazardous Substances

SARA 第 302 节极危险物质

None of the chemicals in this product have a TPQ.

这种产品的化学成分没有被列入

Section 313 No chemicals are reportable under Section 313.

这种产品的化学成分没有被列入 313 节。

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

这种材料不含任何有害的空气污染物。

该材料不含任何1级臭氧消耗剂。

该材料不含任何2级臭氧消耗剂。

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

这种化学产品没有有害物质被列入<美>土木工程署。

这种化学产品没有优先污染物被列入<美>土木工程署。

这种化学产品没有有毒污染物被列入<美>土木工程署。

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

该产品中没有一种化学品被 OSHA 认为是高度危险的。

STATE

CAS#372-75-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS#372-75-8 不存在于 CA、PA、MN、MA、FL 或新泽西州的国家名单上

California Prop 65 加州 65 提案

California No Significant Risk Level: None of the chemicals in this product are listed.

加利福尼亚没有显著的风险水平:该产品中没有任何化学物质被列入

European/International Regulations 欧洲/国际条例

European Labeling in Accordance with EC Directives 按照欧共体指令的欧洲标签

Hazard Symbols 危险性符号:

Not available. 不适用

Risk Phrases 风险的短语:

Safety Phrases 安全词组:

S 24/25 Avoid contact with skin and eyes.

S 24/25 避免接触皮肤和眼睛

WGK (Water Danger/Protection) 德国水公害(水危险/保护)

CAS#372-75-8: 0

Canada - DSL/NDSL

CAS# 372-75-8 is listed on Canada's DSL List.

CAS# 372-75-8 被列入 Canada's DSL

Canada - WHMIS

This product has a WHMIS classification of D2B.

本产品符合 D2B 的家用危险分类。

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

本产品按照危险标准和法规进行了分类,安全数据表中包含法规所需的所有信息。

Section 16 - Additional Information 第16节-补充资料

MSDS Creation Date: 2018.03

安全数据表生成日期:2018.03

有效期:5年

紧急联系人: 郭磊 +86-311-83078783