

化学品安全技术说明书

甘肃省平凉市工业园区食品深加工产业园
Food Deep Processing Industrial Park,
Pingliang Industrial Park, Gansu Province

SAFETY DATA SHEET

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根据以下标准编制 (Prepared according to) :

GB/T 16483, GB/T 17519, GHS (Ninth Revised Edition), EU regulation No. 2020/878, Hazard Communication Standard (HCS) (29 CFR 1910.1200)

第 1 部分: 化学品及企业标识

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

1.1 产品标识符

1.1 Product identifier

化学品名称: L-半胱氨酸
盐酸盐一水合物

Product Name: L-Cysteine hydrochloride hydrate

Synonyms: L-2-amino-3-mercaptopropionate

化学品别名: L-2-氨基-3-
巯基丙氨酸盐酸盐一水物

hydrochloride monohydrate

CAS NO.: 7048-04-6

CAS NO.: 7048-04-6

EC NO.: 200-157-7

EC NO.: 200-157-7

Molecular Formula: C₃H₇NO₂S·HCl·H₂O分子式: C₃H₇NO₂S·HCl·H₂O

REACH Registration Number: N/A

REACH 注册号: N/A

UFI: N/A

UFI: N/A

GRAS (SCOGS Type of Conclusion): N/A

GRAS 状态: N/A

1.2 产品推荐用途及限制用途

1.2 Recommended use of the product and restrictions on use

产品推荐用途: 请咨询生
产商。Recommended use of the product: Please consult
manufacturer.

Restrictions use of the product: Please consult manufacturer.

产品限制用途: 请咨询生
产商。

1.3 制造商信息

1.3 Details of the Manufacturer

企业名称: 甘肃量维生物
工程有限公司

Name: Gansu Lifewe Bioengineering Co., Ltd.

企业地址: 甘肃省平凉市工业
园区食品深加工产业园Address: Food Deep Processing Industrial Park, Pingliang
Industrial Park, Gansu Province

企业邮编: 744000

Post Code: 744000

企业电话: 86-29-81024172

Telephone: 86-29-81024172

企业邮件:

E-mail:

24 小时应急电话:

Emergency telephone number(24 h):

第 2 部分: 危险性概述

SECTION 2: Hazards identification

2.1 化学品分类

2.1 Classification of the substance or mixture

根据 GB 30000-2013 化学品分类和标签规范系列标准、GHS 体系(第九次修订版)、欧盟法规(EC) No 1272/2008 及其修订、危害沟通标准(HCS) (29 CFR 1910.1200): 本化学品未归类为危险化学品。

According to: GB 3000-2013 Series of standard for classification and Labeling of chemicals, GHS system (9th revised edition), Regulation (EC) No 1272/2008 and its amendments, Hazard Communication Standard (HCS) (29 CFR 1910.1200): Not classified as a dangerous substance.

2.2 未分类(HNOC)或不在 GHS 范围内的危险

2.2 Hazards not otherwise classified (HNOC) or not covered by GHS

易燃粉尘

Combustible dust

2.3 GHS 标签要素

2.3 GHS label elements

危害象形图 (Hazard pictograms) : N/A

警示词 (Signal word) : 警告 Warning

2.4 预防性声明

2.4 Precautionary statements

预防措施 Prevention	N/A
事故响应 Response	N/A
安全储存 Storage	N/A
废弃处置 Disposal	N/A

2.5 其他危害性

2.5 Other hazards

2.5.1 理化危害

2.5.1 Physical and chemical hazards

无数据资料

No data available

2.5.2 健康危害

2.5.2 Health hazards

吸入 Inhaled	吸入本产品可能产生不良健康影响或不适后刺激呼吸道。 Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
摄入 Ingestion	意外摄入本产品可能对个人健康有害。 Accidental ingestion of the product may be harmful to the health of the individual.
皮肤接触 Skin Contact	例如, 通过割伤、擦伤或损伤进入血流, 可能产生全身损伤, 并产生有害影响。 Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful

	effects.
眼睛接触 Eye	本产品直接接触眼睛后可能会引起暂时的不适。 This product may cause temporary discomfort following direct contact with the eye.

2.5.3 环境危害

2.5.3 Environmental hazards

N/A

2.5.4 PBT 和 vPvB 评估结果

2.5.4 Results of PBT and vPvB assessment

N/A

2.5.5 内分泌干扰特性评价结果

2.5.5 Results of endocrine disrupting properties assessment

N/A

第 3 部分：成分/组成信息

SECTION 3: Composition/information on ingredients

成分 Component	CAS No.	EC No.	含量 Concentration (wt, %)
L-半胱氨酸盐酸盐一水合物 L-Cysteine hydrochloride hydrate	7048-04-6	200-157-7	100

第 4 部分：急救措施

SECTION 4: First aid measures

4.1 急救措施描述

4.1 Description of first aid measures

一般性建议 General advice	无数据资料 No data available
眼睛接触 Eye contact	用大量的水彻底冲洗至少 15 分钟，如果感到不舒服，请咨询医生。 Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
皮肤接触 Skin contact	用肥皂和大量水冲洗。 Wash off with soap and plenty of water.
摄入 Ingestion	不要给昏迷的人口服任何东西。马上叫医生来。 Never give anything by mouth to an unconscious person. Call a physician immediately.
吸入 Inhalation	将受害者转移到空气新鲜的地方。如果呼吸困难，立即给氧并咨询医生。 Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.
对保护施救者的忠告 Protecting of first-aiders	确保医务人员了解所涉及物质。采取预防措施保护自己，防止污染扩散。 Ensure that medical personnel are aware of the substance

	involved. Take precautions to protect themselves and prevent spread of contamination.
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4.2 最重要的症状或健康影响

4.2 Most important symptoms/effects, acute and delayed
请参阅第 11 节。

Please see section 11.

4.3 及时的医疗处理和所需的特殊处理的说明和指示

4.3 Indication of any immediate medical attention and special treatment needed
无数据资料。

No data available.

第 5 部分：消防措施

SECTION 5: Firefighting measures

5.1 灭火介质

5.1 Extinguishing media

适宜的灭火介质 Suitable extinguishing media	用水雾,抗乙醇泡沫,干粉或二氧化碳灭火。 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
不适宜的灭火介质 Unsuitable extinguishing media	对可使用的灭火器类型没有限制。 There is no restriction on the type of extinguisher which may be used.

5.2 源于此物质或混合物引起的特定危害

5.2 Specific hazards arising from the substance or mixture
碳氧化物,氮氧化物,硫氧化物,氯化氢气体, 氧化铁

Carbon oxides, nitrogen oxides (NOx), Sulphur oxides. Hydrogen chloride gas, iron oxide.

5.3 给消防员的建议

5.3 Advice for firefighters

与任何火灾一样, 佩戴自给式呼吸器(MSHA/NIOSH 认可或同等)和全套防护装备。

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

在有足够掩护的安全距离内灭火。

Fight fire from a safe distance, with adequate cover.

防止灭火水污染地表水或地下水系统。

Prevent fire extinguishing water from contaminating surface water or the ground water system.

第 6 部分：泄漏应急处理

SECTION 6: Accidental release measures

6.1 个人预防措施、防护设备和应急程序

6.1 Personal precautions, protective equipment and emergency procedures
确保充足的通风。清除所有的火源。

Ensure adequate ventilation. Remove all sources of ignition.

将人员疏散到安全区域。让人们远离泄漏物/泄漏物的逆风处。

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

使用个人防护装备, 不要吸入粉尘/烟雾。

Use personal protective equipment, do not breathe dust/fume.

6.2 环境预防措施

6.2 Environmental precautions

在安全的情况下, 防止进一步的泄漏或溢出。

Prevent further leakage or spillage if safe to do so.

不要让产品进入下水道。

Do not let product enter drains.

6.3 泄漏化学品的收容、清除方法及所使用的处置材料

6.3 Methods and materials for containment and cleaning up

尽可能切断泄漏源。

Cut off the source of the leak as much as possible.

保持泄漏处通风。

Keep leaks in a ventilated place.

隔离受污染地区并限制进入。

Isolation of contaminated areas and restrictions on access.

建议应急人员佩戴防尘口罩。

It is recommended that emergency personnel wear dust masks.

用干净的铲子收集泄漏物，将其放入干净、干燥、松散封闭的容器中，并将容器移离泄漏处。

Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.

6.4 参考其他部分

6.4 Reference to other sections

丢弃处理请参阅第 13 节。

For disposal see section 13.

第 7 部分：操作处置与储存

SECTION 7: Handling and storage

7.1 安全处理注意事项

7.1 Precautions for safe handling

7.1.1 保护措施

7.1.1.1 Protective measures

操作应在通风良好的地方进行。

Handling is performed in a well ventilated place.

在形成灰尘的地方提供适当的排气通风。

Provide appropriate exhaust ventilation at places where dust is formed.

避免接触皮肤和眼睛。

Avoid contact with skin and eyes.

避免形成灰尘和气溶胶。

Avoid formation of dust and aerosols.

在形成灰尘的地方提供适当的排气通风。

Provide appropriate exhaust ventilation at places where dust is formed.

7.1.2 防火措施

7.1.2 Measures to prevent fire

远离高温、火花、明火、灼热的表面。

Keep away from heat/sparks/open flames/ hot surfaces.

7.1.3 就一般职业卫生提供意见

7.1.3 Advice on general occupational hygiene

使用这些物质后，要洗手和洗脸。

Wash hands and face after using of the substances.

立即更换受污染的衣服。

Replace the contaminated clothing immediately.

7.2 安全存储的条件, 包括任何不兼容性

7.2 Conditions for safe storage, including any incompatibilities

保持容器紧密封闭。空气和光敏感。

Keep containers tightly closed. Air and light sensitive.

把容器放在一个干燥、凉爽和通风良好的地方。

Keep containers in a dry, cool and well-ventilated place.

远离高温、火花、明火、灼热的表面。

Keep away from heat/sparks/open flames/hot surfaces.

储存远离不兼容的材料和食品容器。

Store away from incompatible materials and foodstuff containers.

7.3 特定最终用途

7.3 Specific end use(s)

无数据资料。

No data available.

第 8 部分: 接触控制和个体防护

SECTION 8: Exposure controls/personal protection

8.1 控制参数

8.1 Control parameters

职业暴露限值 Occupational Exposure limit values	适当的技术控制, 常规的工业卫生操作 Appropriate engineering controls General industrial hygiene practice.
最高容许浓度 Components with workplace control parameters	无相关规定 No relevant regulations
监控方法 Monitoring methods	EN 14042 工作环境。化学和生物制剂暴露评估程序的应用和使用指南。 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. GBZ/T 300 系列标准车间空气中有毒物质的测定。 GBZ/T 300 series standard Determination of toxic substances in workplace air.

8.2 工程控制

8.2 Engineering controls

确保足够的通风, 特别是在密闭的区域。

Ensure adequate ventilation, especially in confined areas.

确保洗眼站和安全淋浴间靠近工作站位置。

Ensure that eyewash stations and safety showers are close to the workstation location.

设置紧急出口和必要的风险消除区。

Set up emergency exit and necessary risk-elimination area.

按照良好的生产卫生和安全规范处理。

Handle in accordance with good industrial hygiene and safety practice.

8.3 个人防护设备

8.3 Personal protection equipment

通用要求 General requirement	无特殊要求, 请参阅下面的说明。 No special requirements, please see the description below.
眼睛防护	带有防护边罩的安全眼镜符合 EN166 要求请使用经官方标

Eye protection	准如 NIOSH(美国)或 EN166(欧盟)检测与批准的设备防护眼部。Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) Or EN 166(EU).
手防护 Hand protection	戴手套 手套在使用前必须受检查。请使用合适的方法脱除手套 不要接触手套外部表面),避免任何皮肤部位接触此产品.使用后请将被污染过的手套根据相关法律法规和有效的实验室规章程序谨慎处理,请清洗并吹干双手所选择的保护手套必须符合 EU 的 89/686/EEC 规定和从它衍生出来的 EN376 标准。 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.
呼吸系统防护 Respiratory protection	不需要保护呼吸。如需防护粉尘损害, 请使用 N95 型(US) 或 P1 型(EN143)防尘面具。 呼吸器使用经过测试并通过政府标准如 NIOSH(US) 或 CEN(EU)的呼吸器和零件。 Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) Or CEN (EU)
皮肤和身体防护 Skin and body protection	根据危险物质的类型, 浓度和量, 以及特定的工作场所选择身体保护措施。防护设备的类型必须根据特定工作场所中的危险物的浓度和数量来选择。 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.

第 9 部分: 理化特性及安全特性

SECTION 9: Physical and chemical properties and safety characteristics

外观 Appearance	形状:固体粉末 Form: Solid powder
颜色 Colour	白色 white
气味 Odour	无可信息 No information available
气味阈值 Odour threshold	无可信息 No information available
pH	1.0 - 2.0 25 g/l 1.0-2.0 at 25 g/l
熔点/凝固点 Melting point/freezing point(°C)	176°C 176°C (349 °F)

初始沸点和沸程 Initial boiling point and boiling range(°C)	无可用信息 No information available
闪点 Flash point	无可用信息 No information available
蒸发速率 Evaporation rate	无可用信息 No information available
可燃性 Flammability	无可用信息 No information available
爆炸极限上下限 Upper/lower explosive limits[%(v/v)]	上限 Upper limit: 无可用信息 No information available 下限 Lower limit: 无可用信息 No information available
蒸气压 Vapor pressure	无可用信息 No information available
蒸汽密度 Vapor density(Air = 1)	无可用信息 No information available
相对密度 Relative density(Water=1)	无可用信息 No information available
溶解性 Solubility	在 25 °C 100 g/l 时 100 g/l at 25 °C (77 °F)
辛醇/水分配系数 n-octanol/water partition coefficient	无可用信息 No information available
自燃温度 Auto-ignition temperature(°C)	无可用信息 No information available
分解温度 Decomposition temperature(°C)	无可用信息 No information available
运动粘度 Kinematic viscosity(mm ² /s)	无可用信息 No information available
氧化特性 Oxidizing properties	无可用信息 No information available
其他安全信息 Other safety information	体积密度 800 kg/m ³ Bulk density: 800 kg/m ³

第 10 部分: 稳定性和反应性

SECTION 10: Stability and reactivity

反应性 Reactivity	无数据资料。 No information available.
化学稳定性 Chemical stability	无数据资料。 No information available.
发生危险反应的可能性 Possibility of hazardous reactions	无数据资料。 No information available.
应避免的条件 Conditions to avoid	如果暴露在空气和光线下, 可能会变色。接触水分。 May discolor on exposure to air and light. Exposure to moisture

禁配物 Incompatible materials	强氧化剂, 金属 Strong oxidizing agents, metal
危害降解物 Hazardous decomposition products	在火灾条件下形成危险分解产物。-碳氧化物, 氮氧化物 (NOx), 硫氧化物, 氯化氢气体 其他分解产物-无数据 发生火灾时:见第 5 节 Hazardous decomposition products formed under fire conditions.- Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas Other decomposition products -No data available In the event of fire: see section 5

第 11 部分: 毒理学信息

SECTION 11: Toxicological information

11.1 急性毒性

11.1 Acute toxicity

无可用信息。

No information available

11.2 致癌性

11.2 Carcinogenicity

IARC:此产品中任何大于或等于 0.1%含量的组分均未被 IARC 鉴别为可能的或肯定的人类致癌物。

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.

NTP:本产品中任何大于或等于 0.1%的成分均未被 NTP 鉴定为致癌物或潜在致癌物。

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA:本产品中任何大于或等于 0.1%的成分均未被 OSHA 鉴定为致癌物或潜在致癌物。

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.3 内分泌干扰特性

11.3 Endocrine disrupting properties

无资料

Not available

11.4 其他危害

11.4 Others

皮肤刺激性或腐蚀性 Skin corrosion/irritation	无数据资料。 No information available.
眼睛刺激或腐蚀 Serious eye damage/irritation	无数据资料。 No information available.
皮肤致敏 Skin sensitization	无数据资料。 No information available.
呼吸致敏 Respiratory sensitization	无数据资料。 No information available.
生殖毒性 Reproductive toxicity	无数据资料。 No information available.
特异性靶器官系统毒性--一次接触可能	无数据资料。 No information available.

STOT-single exposure	
特异性靶器官系统毒性--反复接触 STOT-repeated exposure	无数据资料。 No information available.
吸入危害 Aspiration hazard	无数据资料。 No information available.
附加说明 Additional information	根据现有资料, 其化学、物理和毒理学性质还没有得到彻底的研究。 RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

第 12 部分: 生态学信息

SECTION 12: Ecological information

12.1 生态毒性

12.1 Toxicity

无数据资料。

No information available.

12.2 持久性和降解性

12.2 Persistence and degradability

无数据资料。

No information available

12.3 潜在的生物累积性

12.3 Bioaccumulative potential

无数据资料。

No information available

12.4 土壤中的迁移性

12.4 Mobility in soil

无数据资料。

No information available

12.5 PBT 和 vPvB 评估结果

12.5 Results of PBT and vPvB assessment

无数据资料。

No information available

12.7 其他环境危害作用

12.7 Other adverse effects

无数据资料。

Not available

第 13 部分: 废弃处置

SECTION 13: Disposal considerations

废弃化学品 Waste chemicals	将剩余的和不可回收的溶液交给有许可证的公司处理。 Offer surplus and non-recyclable solutions to a licensed disposal company
受污染的包装 Contaminated packaging	按未用产品处置。 Dispose of as unused product.

第 14 部分: 运输信息

SECTION 14: Transport information

信息 information	欧洲陆运危规 European land transport dangerous regulations	国际海运危规 International maritime dangerous regulations	国际空运危规 International Airlift Criteria
联合国编号 UN number	——	——	——
联合国运输名称 The United Nations transport name	Not dangerous goods	Not dangerous goods	Not dangerous goods
运输危险类别 Transportation danger category	——	——	——
环境危害 environment hazards	否 NO	否 NO	否 NO
特殊防范措施 Special preventive measures	无数据资料。 Not available		

第 15 部分：法规信息

SECTION 15: Regulatory information

15.1 SARA 302 组分

15.1 SARA 302 components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title II, Section 302

SARA 302: 本材料中的化学物质不受 SARA 第三章第 302 条的报告要求约束

15.2 SARA 313 组分

15.2 SARA 313 components

SARA 313: 该材料不包含任何已知 CAS 编号的超过 SARA 标题三章第 313 节规定的阈值（最低限度）报告水平的化学成分。

SARA 313: This material does not contain any chemical components with know CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.3 SARA 311/312 Hazards

15.3 SARA 311/312 危害

无 SARA 危险

No SARA Hazards

15.4 Massachusetts 组分知情权

15.4 Massachusetts Right To Know components

任何组件都不受 Massachusetts 知情权法案的约束。

No components are subject to the Massachusetts Right to Know Act.

15.5 Pennsylvania 组分知情权

15.5 Pennsylvania Right To Know components

组分 component	CAS-No.	Revision Date
L-半胱氨酸盐酸盐一水合物 L-Cysteine hydrochloride hydrate	7048-04-6	

15.6 New Jersey 组分知情权

15.6 New Jersey Right To Know Components

组分 component	CAS-No.	Revision Date
L-半胱氨酸盐酸盐一水合物 L-Cysteine hydrochloride hydrate	7048-04-6	

15.7 加州 65 号提案的组分

15.7 California Prop.65 components

本产品不含任何加州已知的会导致癌症、出生缺陷或任何其他生殖危害的化学物质。

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

[E] 欧盟 REACH 注册物质

Registered substances under EU REACH

[F] 物质评估 - 欧盟 REACH 法规下的 CoRAP

Substance Evaluation – CoRAP under EU REACH

[G] 欧盟水政策优先物质清单 (第 2455/2001/EC 号指令)

List of priority substances under EU water policy (Directive 2455/2001/EC)

15.3 加州第 65 号提案成分

15.3 California Prop. 65 Components

本产品不含加利福尼亚州已知可致癌、致畸或对生殖系统造成伤害的任何化学物质。

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

第 16 部分: 其他信息

SECTION 16: Other information

16.1 参考文献

16.1 Reference

[1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.

[2] IARC, website: <http://www.iarc.fr/>.

[3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/substancesearch/index.action>.

[4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.

[5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.

[6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.

[7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.

[8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>

16.2 缩略语说明

16.2 Abbreviations and acronyms

CAS – 化学文摘号

NOEC – 无观测效应浓度

CAS Chemical Abstracts Service	NOEC No Observed Effect Concentration
UN-联合国 UN The United Nations	ACGIH – 美国工业卫生会议 ACGIH American Conference of Governmental Industrial Hygienists
PC-STEL – 短时间接触容许浓度 PC-STEL Short term exposure limit	LC50 – 50%致死浓度 LC50 Lethal Concentration 50%
OECD – 经济合作与发展组织 OECD Organization for Economic Co-operation and Development	NFPA – 美国消防协会 NFPA National Fire Protection Association LD50 – 50%致死剂量 LD50 Lethal Dose 50%
PC-TWA – 时间加权平均值 PC-TWA Time Weighted Average	EC50 – 50%有效浓度 EC50 Effective Concentration 50%
IMDG – 国际海事组织 IMDGCODE International Maritime Dangerous Goods CODE	PBT – 持久性, 生物累积性, 毒性 PBT Persistent, Bioaccumulative, Toxic ECX-有效浓度 X% ECX Effective Concentration X%
MAC-最大允许浓度 MAC Maximum Allowable Concentration	vPvB – 持久性, 生物累积性 vPvB very Persistent, very Bioaccumulative POW – 辛醇/水分配系数 POW Partition coefficient Octanol: Water
IARC – 国际癌症研究机构 IARC International Agency for Research on Cancer	CMR – 致癌、致畸和有生殖毒性的化学物质 CMR Carcinogens, mutagens or substances toxic to reproduction
DNEL – 衍生的无影响水平 DNEL Derived No Effect Level I	BCF – 生物浓度因子(BCF) BCF Bioconcentration factor
CAO-国际民用航空组织 CAO International Civil Aviation Organization	RPE – 呼吸防护设备 RPE Respiratory Protective Equipment
PNEC – 预测的无效应浓度 PNEC Predicted No Effect Concentration	

ICAO/IATA – 国际民航组织/
国际航空运输协会
IATA International Air
Transportation Association

ED-内分泌干扰物

ED Endocrine disruptor

16.3 免责声明

16.3 Disclaimer

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