

国家危险化学品检测重点实验室(浙江)



电话 (Tel): 0571 8352 7220 传真 (Fax): 0571 8352 7219 邮编 (Post code): 311215

地址(Add.): 中国杭州市萧山区建设三路 398 号

正本/ORIGIN

编号: TCH22005830 No: TCH22005830 日期: 2022-05-20 Date: 2022-05-20

ZAIQ-RF(HH)-01-19

Safety Data Sheet



Applicant name: Hangzhou Fuyang Hongyuan Renewable Resources Co., Ltd

Product Name: Cupric oxide

Edit date: 2022-05-20

Edit institution: Technology Center of Hangzhou Customs District

Approver: 7 12 3

1. Unless other wise stated, this test report is only responsible for the sample(s).

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测)。复测以原样为准,复测维持原结论时,由申请方承担复测费。

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1. Identification of substance								
Product Name	Cupric oxide							
Other Name	Copper oxide							
Chemical Name	CuO							
Recommended Use								
Manufacturer Name	Used as colouring agent for glass, enamel and ceramic industry, anti-wrinkle agent for paint and polishing agent for optical glass, organic catalyst carriers and copper compounds. Hangzhou Fuyang Hongyuan Renewable Resources Co., Ltd.							
Address	No.102 Qingquan Road, Xindeng Town, Fuyang District Hangzhou City, Zhejiang Province, China /311404							
Phone Number	+86-0571-63325889							
Fax Number	+86-0571-63325889							
WEB or E-mail	None							
Emergency Phone	+86-137 7759 8016 or Call your nearest poison control centre.							
Number	,							
2. Hazards identification								
GHS classification	Hazardous to the aquatic environment, acute hazard 1							
	Hazardous to the aquatic environment, long-term hazard 1							
GHS Pictograms								
Signal words	Warning							
Hazard statements	H400:Very toxic to aquatic life H410:Very toxic to aquatic life with long lasting effects							
Precautionary Statement Prevention	P273:Avoid release to the environment.							
Precautionary Statement Response	P391:Collect spillage.							
Precautionary Statement Storage	None.							
Precautionary Statement	P501:Dispose of contents/container in according with local							

3. Composition/information on ingredients

Component Information

Other hazards which do

not result in classification

Disposal

ComponentCAS numberEINECS numberMass(%)Cupric oxide1317-38-0215-269-199%wt

regulation.

Not available.

Note:1. Unless a component presents a severe hazard, it does not need to be considered in the SDS if the concentration is less than 1%.

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Cupric oxide According to GHS rev 9

	4.First-aid measures				
NOTE TO PHYSICIAN	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.				
After inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention.				
After skin contact	Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.				
After eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately.				
After ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.				
Most important symptoms/effects, acute and delayed	Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.				
	5. Fire-fighting measures				
Suitable extinguishing agents	Use foam, dry chemical or carbon dioxide.				
Special hazards caused by the material, its products of combustion or flue gases	Can be released in case of fire: Copper oxides.				
Protective equipment	Put out the fire upwind, and move the container from the fire to the open area as far as possible. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.				
	6. Accidental release measures				
Person-related safety precautions	Ensure adequate ventilation. Avoid dust formation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Avoid breathing				

Cupric oxide				According	to GHS rev 9		
	dust						
Measures for environmental protection	dust. Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper						
			the environ	ment withou	it proper		
Measures for	•	governmental permits.					
cleaning/collecting	Pick up and arrange disposal in suitable container. Clean contaminated surface thoroughly.						
Additional information				handling			
/ tadicional imprimacion	See Section 7 for information on safe handling See section 8 for information on personal protection						
	equipment.						
	See Section 1	See Section 13 for information on disposal.					
	7. Handl	ing and stor	age				
Handling							
Information for safe	Avoid contact	with skin, e	yes, mucous	membrane	s and		
handling	clothing.						
	In case of in	sufficient ve	entilation, w	ear suitable	respiratory		
	equipment.						
	Avoid formation of dust and aerosols.						
Information about	Keep away from heat, sources of ignition, sparks or open						
protection against	flame.						
explosions and fires							
STORAGE	Kaan in a saal, dur, wall wantileted ale ee						
Requirements to be met by storerooms and	Keep in a cool, dry, well-ventilated place.						
containers	Keep tightly closed until used.						
Information about	Store away from incompatible substances such as reducing						
storage in one common	agents, hydrogen sulfide gas, aluminum, alkali metals,						
storage facility		powdered metals.					
Further information about	•						
storage conditions							
8.	Exposure cont	rols/persona	al protection				
Limit Values for Exposure							
Component	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH PEL-TWA	NIOSH PEL-STEL		
Copper oxide	1317-38-0	0.2 mg/m³	N.E.	0.1 mg/m³	N.E.		
Appropriate engineering controls	Closed operation, local exhaust.						
General protective and	Change work	clothes in ti	me and pay	attention to	personal		
hygienic measures	hygiene.						
Personal protective equipment	Masks, goggles, overalls, gloves.						
Breathing equipment	When workers are facing high concentrations they must use appropriate certified respirators.						
Protection of hands	Wear appropriate chemical resistant gloves.						

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Cupric oxide According to GHS rev 9 Use safety glasses with side shields or safety goggles as Eye/Face protection mechanical barrier for prolonged exposure. Use clean protective body-covering as needed to minimize Body protection contact with clothing and skin. Note: 1. N.E. means not established. 9. Physical and chemical properties Physical state Powder Colour Black No data available Odour Melting point/freezing 1026 ℃ point Boiling point or initial No data available boiling point and boiling range Nonflammable Flammability Lower and upper No data available explosion limit/ flammability limit Flash point No data available Auto-ignition No data available temperature Decomposition No data available temperature pΗ No data available Kinematic viscosity No data available Solubility Insoluble in water, soluble in dilute acid, incompatible with ethanol Partition coefficient: No data available n-octanol/water(log value) Vapour pressure No data available Density and/or relative 6.32 (powder) density Relative vapour density No data available (air=1)Particle characteristics No data available 10. Stability and reactivity No data available. Reactivity Chemical stability Stable under recommended storage conditions. Possibility of hazardous Explosion hazard with aluminium. May react violently with

sodium and magnesium. Reacts with hydrogen sulfide,

or generate flammable gases or vapors.

fluorine, silanes, hydrides, acid anhydrides and may cause fire

reactions

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Cupric oxide
According to GHS rev 9

Conditions to avoid (e.g. Exposure to sunlight.

static discharge, shock or

vibration)

Incompatible materials
Avoid contact with reducing agents, hydrogen sulfide gas,

aluminum, alkali metals, powdered metals, etc.

Hazardous decomposition Hazardous decomposition products formed under fire

products conditions - Copper oxides.

11.Toxicological information

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.

Acute Toxicity

Cupric oxide (CAS LD50 (Oral, rat): > 2,500 mg/kg

1317-38-0) LC50 (Inhalation, rat): N/A

LD50 (Dermal, rat): > 2,000 mg/kg

Skin corrosion/Irritation Not classified

Serious eye Mild eye irritation.

damage/irritation

Respiratory or skin N

Not classified

sensitization

Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard
Chronic Effects
Not classified
Not classified
Not classified
Not classified

Further Information No data

12. Ecological information

Ecotoxicity

Aquatic Toxicity Cupric oxide (CAS 1317-38-0)

Test & Species

96 Hr LC50 fish: 0.193 mg/l

48 Hr EC50 Daphnia: 0.011 - 0.039 mg/l

72 Hr NOEC Algae: 0.0057 mg/l

Persistence and

degradability

Not available

Bioaccumulative potential Not available Mobility in soil Not available

Additional Information Very toxic to aquatic life with long lasting effects.

13. Disposal considerations

WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of

this material.

Dispose of in accordance with local environmental regulations or local

Safety Data Sheet
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Cupric oxide
According to GHS rev 9

authority requirements.

14. Transport information

The Recommendation of Transport of Dangerous Goods(TDG)

UN Number UN 3077

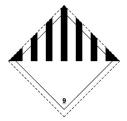
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Cupric oxide)

Class/Division Class 9 Miscellaneous Dangerous Substances and Articles

Package Group PG III Subsidiary risk —

labelling pictogram



Maritime transport IMDG/ Being same with TDG / Yes

Marine pollutant (Yes/No)

Air transport ICAO-TI and Being same with TDG

IATA-DGR

15. Regulatory information

European/International Regulations

OSHA: Hazardous by definition of Hazard Communication Standard

(29CFR 1910.1200).

EINECS Status: Cupric oxide (CAS 1317-38-0) is included in EINECS inventory.

EPA TSCA Status: Cupric oxide (CAS 1317-38-0) is included in TSCA inventory.

Canadian Cupric oxide (CAS 1317-38-0) is included in DSL.

DSL(Domestic

Substances List):

HMIS(Hazardous Health: 2

Material Identification Flammability: 0 **System Ratings):** Physical hazard: 0

Personal protection: F

(4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1.

Slight Hazard; 0. Minimal Hazard)

WHMIS Canadian Not listed.

Workplace Hazardous Material Identification

System Ratings):

GB 12268-2012 List of This chemical is a dangerous goods on the GB 12268-2012 list

dangerous goods of dangerous goods.

16. other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This

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Cupric oxide
According to GHS rev 9

information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This Material Safety Data Sheet was based on the "Globally Harmonized System of Classification and Labelling of Chemicals", "Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations", "INTERNATIONAL MARITIME DANGEROUS GOODS CODE"," International Air Transport Association Dangerous Goods Regulations", the National Standards and other related dangerous chemicals management laws, regulations and standards, which are periodically updated and changed. To make dangerous goods / hazardous chemicals comply with the relevant requirements of the latest management, regularly update is recommended.

This Material Safety Data Sheet has been compiled in both English and Chinese. For any discrepancies, the Chinese version shall prevail.

Abbreviations and

acronyms

ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road

RID: Regulations Concerning the International Transport of

Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA-DGR: Dangerous Goods Regulations by the "International Air

Transport Association" (IATA)

ICAO-TI: Technical Instructions by the "International Civil Aviation

Organization" (ICAO)

EINECS: European Inventory of Existing Commercial Chemical

Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent NOEC: No Observed Effect Concentration

Edit Date
Update and Revise

20.05.2022

e Original edition

Edit Standard

Globally Harmonized System of Classification and Labelling of

Chemicals Part 1.5

Revised Institution Technology Center of Hangzhou Customs District



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化学品安全数据表



申请单位: 杭州富阳鸿源再生资源利用有限公司

产品名称: 氧化铜

编制日期: 2022-05-20

编制机构: 杭州海关技术中心

批准人: 万旺季

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第 1 页 共 6 页 依据 GHS 第 9 修订版编写

氧化铜

1. 标识

产品名称氧化铜其他名称氧化铜化学名称氧化铜

使用建议 用作制人造丝、陶瓷、釉及搪瓷、电池、石油脱硫、杀虫剂等

生产商杭州富阳鸿源再生资源利用有限公司

地址 浙江省杭州市富阳区新登新镇清泉路 102 号/311404

固定电话+86-0571-63325889传真+86-0571-63325889

网址或电子邮件地址 无

应急电话 +86-137 7759 8016 或向离你最近的解毒中心求助

2. 危险标识

GHS 危险性分类 危害水生环境-急性危险 1 类

危害水生环境-长期危险 1 类

GHS 危险标签



信号词警告

危险说明 H400:对水生生物毒性极大

H410:对水生生物毒性极大且具长期持续影响

防范说明 P273:避免释放到环境中

预防

防范说明 P391:收集溢出物

反应

防范说明 无

贮存

防范说明 P501:依据地方法规处置内装物/容器

外署

不导致分类的其他危险 未知。

3. 成分构成/成分信息

成分信息

成分 CAS 号 EINECS 号 含量(%)

氧化铜 1317-38-0 215-269-1 99%wt

注: 1.在化学品安全数据表中无需考虑百分含量小于 1%的成分,除非该成分呈现出严重的危害性。

4.急救措施

对医师的建议 在呼吸急促的情况下,需给受害人输氧。保持受害人温暖。

让受害人处于观察监护下。

吸入后转移到有新鲜空气的地方。如需要,须输氧或进行人工呼吸。

马上就医。

第2页共6页 氧化铜 依据 GHS 第9修订版编写

皮肤接触后 立即用大量的水冲洗皮肤。脱掉被污染的衣服和鞋子。如皮肤刺激仍

继续: 须求医。如原是小面积的皮肤接触, 防止接触面积的扩大。污

染的衣服在使用前,须单独清洗。

立即用大量的水冲洗眼睛至少 15 分钟。用手指分开眼睑以保证充分 眼睛接触后

冲洗眼睛。马上就医。

切勿给失去知觉者喂食任何东西。用水漱口。请教医生。 摄入后

主要的症状和影响,包括

急性和迟发效应

系统性铜中毒症状: 毛细血管损伤、头痛、冷汗、脉搏微弱、肝肾损 伤、中枢神经系统兴奋继而抑制、黄疸、抽搐、麻痹和昏迷。休克和

肾衰会导致死亡。

慢性铜中毒包括肝硬化、脑损伤和脱髓鞘、肾损害;铜沉积在角膜引 起人威尔逊病。还有报道铜毒性导致血红蛋白贫血和加剧动脉硬化。

据我们所知,此化学,物理和毒性性质尚未经完整的研究。

5. 消防措施

合适的灭火剂

由物质本身或其燃烧产 物、烟气产生的特殊危险

防护设备

使用泡沫,干粉或二氧化碳灭火器。 在发生火灾时可能释放:铜的氧化物。

在上风灭火,灭火时尽可能将容器从火场移至空旷处。

穿全套防护衣物,包括头盔,呼吸器,防护服和面罩。

6. 泄露应急处理

与人相关的安全防范措施 确保通风充分。避免粉尘生成。在穿上合适的防护服前,请勿触摸损

坏的容器或泄漏物。在进入封闭空间前先通风。请不相关人员撤离。

避免吸入粉尘。

如能做到应防止进一步的泄露和溢出。无相关政府许可, 不允许把该 环境保护措施

物质释放到环境中。

清洁/收集措施

收集并把废弃物放置在合适的容器中。彻底清洁被污染物的表面。

附加说明

关于安全操作的信息见第7部分 关于个人防护设备的信息见第8部分

关于处置的信息见第 13 部分

7. 操作和存储

操作

安全操作的信息 避免和皮肤、眼睛、粘膜、衣服接触。

在通风不充分的情况下,使用合适的呼吸设备。

避免产生粉尘和烟雾。

防止爆炸和火灾的信息 远离热源,火源,火花,或明火。

存储

对储藏室和容器的要求 存放在阴凉、干燥、通风良好的地方。

使用前保持容器密闭。

远离不相容的物质如还原剂,硫化氢气体,铝,碱金属,金属粉末。 关于储藏在普通存储设施

中的信息

关于储藏条件进一步的信 无其他说明。

息

8. 暴露控制/人身保护

暴露限值

	成分	CAS 号	ACGIH 阈限值-时 间加权平 均浓度	ACGIH 阈限值-短 时间接触 限值	NIOSH 阈 限值-时间加 权平均浓度	NIOSH 阈 限值-短时 间接触限值
	氧化铜	1317-38-0	0.2 mg/m ³	N.E.	0.1 mg/m ³	N.E.
1	♪トヂ イト、 チータ タイサ タイタ ̄ ユ´ロ チャタ サーイ ━゚ント	一一一	사사 그			

减少接触的工程控制方法 密闭操作,局部排风。

一般保护和卫生措施 及时换洗工作服,注意个人清洁卫生。 个人防护用品 口罩、护目眼镜、工作服、手套。

呼吸设备 当工人在高浓度的环境下工作时,必须使用合适的已认证的呼吸器。

双手保护 戴合适的耐化学腐蚀的手套。

眼睛**/**面部保护 使用带侧罩或安全眼镜的护目镜作为工人长期暴露的机械屏蔽。 身体保护 使用干净的防护服以尽量减少该物质与衣物和皮肤的接触。

注:1. N.E. 就是还没有建立的意思。

9.物理和化学特性

 物理状态
 粉状

 颜色
 黑色

气味 无数据资料 熔点/凝固点 1026 ℃ 沸点或初始沸点和沸程 无数据资料 易燃性 不易燃 上、下爆炸极限/易燃极限 无数据资料 闪点 无数据资料 自燃温度 分解温度 无数据资料 无数据资料

分解温度无数据资料pH 值无数据资料运动粘度无数据资料

溶解性 不溶于水,溶于稀酸,不容于乙醇

分配系数:正辛醇/水(对 无数据资料

数值)

蒸汽压无数据资料密度和/或相对密度6.32 (粉末)相对蒸气密度 (空气=1)无数据资料颗粒特征无数据资料

10. 稳定性和反应活性

反应性 无数据资料。

化学稳定性 在推荐的储存条件下稳定。

有害反应的可能性 与铝作用有爆炸危险。可能与钠、镁发生剧烈反应。与硫化氢、氟、

硅烷、氢化物、酸酐作用可能有起火或产生易燃气体或蒸气的危险。

需避开的条件(如:静电 暴露在日光下。

放电, 震动等)

不相容的物质 避免和还原剂,硫化氢气体,铝,碱金属,金属粉末等接触。

有害分解产物 在着火情况下,会分解生成有害物质:铜的氧化物。

第4页共6页 依据 GHS 第9修订版编写

11.毒理学信息

进入人体内的途径:皮肤接触、眼睛接触、吸入和摄入。

急性毒性

氧化铜

氧化铜(CAS 1317-38-0) LD50(口服, 大鼠): > 2,500 mg/kg

LC50(吸入, 大鼠): 未知

LD50(皮肤, 大鼠): > 2,000 mg/kg

皮肤腐蚀/刺激 未分类

轻度的眼睛刺激。 严重眼损伤/刺激

呼吸或皮肤敏化作用 未分类 生殖细胞致突变性 未分类 未分类 致癌性 生殖毒性 未分类 特定目标器官毒性-单次接触 未分类 特定目标器官毒性-重复接触 未分类 吸入危险 未分类 慢性影响 未分类 其他信息 无

12. 生态学信息

生态毒性

水生毒性 氧化铜(CAS 1317-38-0)

测试 & 物种

96 Hr LC50 鱼: 0.193 mg/l

72 Hr EC50 藻类: 0.011 - 0.039 mg/l

48 Hr NOEC 溞类: 0.0057 mg/l

持久性和降解性 未知 潜在的生物累积性 未知 土壤中的迁移性 未知

其他信息 对水生生物毒性极大且具长期持续影响。

13. 废弃处置

废物处置说明

联系一家有资质的专业废物处置机构来处置。

按照当地的环境法规或地方当局的要求来进行处置。

14. 运输信息

联合国《关于危险货物运输的建议书 规章范本》(TDG)

UN 编号 UN 3077

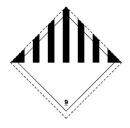
正式运输名称 对环境有害的固态物质,未另作规定的(氧化铜)

危险类/项别 第9类 杂项危险物质和物品

包装类别 PG III

次要危险性

危险性标签



国际海运危规 IMDG/海

与 TDG 的分类相同/是

洋污染物(是/否)

国际空运危规 ICAO-TI

与 TDG 的分类相同

和 IATA-DGR

15. 法规信息

欧洲/国际法规

OSHA (美国职业安全和 危险性根据危害通讯标准来编写 (29CFR 1910.1200).

健康管理法):

EINECS (欧洲现有商

氧化铜(CAS 1317-38-0)已被列入 EINECS 目录中。

业化学物质名录):

EPA TSCA(有毒物质控 氧化铜(CAS 1317-38-0)已被列入 TSCA 目录中。

制法):

加拿大 DSL(国内物质

氧化铜(CAS 1317-38-0)已被列入 DSL 目录中。

清单):

HMIS(危险品识别系

健康危害: 2

统):

易燃性: **0** 物理危害: **0**

个人防护: F

(4. 极其严重危害; 3. 严重危害; 2. 中度危害; 1. 轻度危害; 0. 极

小危害)

WHMIS(加拿大工作场

未列入。

所有害物质识别系统):

GB 12268-2012 危

该化学品作为危险品被列入 GB 12268-2012 危险品清单。

险品清单

16. 其他信息

雇主只能把本化学品安全数据表的信息当作他们所获其他信息的补充信息,并能独立判断 此信息的适用性,以确保正确使用并保护雇员的健康和安全。此化学品安全数据表提供的信息并 不具担保作用,任何未按本化学品安全数据表使用产品、或与其他产品和操作过程同时使用本产 品时产生的后果由用户自行承担。

本化学品安全数据表是根据《全球化学品统一分类和标签制度》,《联合国关于危险货物运输的建议书》,《国际海运危规》,国际航空运输协会《危险货物规则》和国家标准等相关危险化学品管理法律法规和标准进行编制,而上述法律法规和标准均会定期进行更新和变化。为使危险货物/危险化学品符合相关最新的管理要求,建议定期审核更新化学品安全数据表。

本化学品安全数据表分别以中、英文编制,在对中、英文本的理解上发生歧义时,以中文文本为准。

缩略语 ADR:《关于危险货物道路国际运输的欧洲协议》

RID:《关于危险货物铁路国际运输的规则》

氧化铜 依据 GHS 第9修订版编写

IMDG: 国际海运危规

IATA-DGR: 国际航空运输协会《危险货物规则》(IATA) ICAO-TI: 国际民用航空组织《国际民航公约》(ICAO)

EINECS: 欧洲现有商业化学物质名录

CAS: 化学文摘号 LC50: 半数致死浓度 LD50: 半数致死剂量 EC50: 半数效应浓度 NOEC: 无显见效应浓度

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第1版 更新和修改

全球化学品统一分类和标签制度 第 1.5 部分 编制标准

编制机构 杭州海关技术中心