



杭州海关技术中心  
国家危险化学品检测重点实验室（浙江）



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正本/ORIGIN

编号: TCH24001378

No: TCH24001378

日期: 2024-01-31

Date: 2024-01-31

ZAIQ-RF(HH)-01-19

# Safety Data Sheet

扫描查看在线报告



**Applicant name:** Hangzhou Fuyang Hongyuan Renewable Resources Co., LTD

**Product Name:** cupric chloride dihydrate

**Edit date:** 2024-01-31

**Edit institution:** Technology Center of Hangzhou Customs District

**Approver:**

万旺军

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

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## 1. Identification of substance

Product Name	cupric chloride dihydrate
Other Name	cupric chloride dihydrate
Chemical Name	$\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$
Recommended Use	Used in pigment, wood preservative and other industries, and used as disinfectant, mordant, catalyst.
Manufacturer Name	Hangzhou Fuyang Hongyuan Renewable Resources Co., LTD
Address	102 Qingquan Road, Xindeng Town, Fuyang District, Hangzhou City, Zhejiang Province China/ 311404
Phone Number	+86-0571-6332 5889
Fax Number	+86-0571-6332 5889
WEB or E-mail	None
Emergency Phone Number	+86-137 7759 8016 or call your nearest poison control centre.

## 2. Hazards identification

GHS classification	Acute toxicity-oral 4 Acute toxicity-dermal 4 Skin corrosion/irritation 2 Serious eye damage/eye irritation 1 Sensitisation-skin 1 Reproductive toxicity 2 Hazardous to the aquatic environment, acute hazard 1 Hazardous to the aquatic environment, long-term hazard 1
GHS Pictograms	
Signal words	Danger
Hazard statements	H302:Harmful if swallowed H312:Harmful in contact with skin H315:Causes skin irritation H318:Causes serious eye damage H317:May cause an allergic skin reaction H361:Suspected of damaging fertility or the unborn child H400:Very toxic to aquatic life H410:Very toxic to aquatic life with long lasting effects
Precautionary Statement Prevention	P203:Obtain, read and follow all safety instructions before use. P261:Avoid breathing dust/fume/gas/mist/vapours/spray. P264:Wash hands [and...] thoroughly after handling. P264+P265:Wash hands [and...] thoroughly after handling. Do not touch eyes. P270:Do not eat, drink or smoke when using this product.

Precautionary Statement Response	<p>P272:Contaminated work clothing should not be allowed out of the work place.</p> <p>P273:Avoid release to the environment.</p> <p>P280:Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</p> <p>P301+P317:IF SWALLOWED: Get medical help.</p> <p>P302+P352:IF ON SKIN: Wash with plenty of water/...</p> <p>P305+P354+P338:IF IN EYES:Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P317:Get medical help.</p> <p>P318:IF exposed or concerned: Get medical advice.</p> <p>P321:Specific treatment (see the supplemental first aid instruction).</p> <p>P330:Rinse mouth.</p> <p>P332+P317:If skin irritation occurs:Get medical help.</p> <p>P333+P317:If skin irritation or rash occurs: Get medical help.</p> <p>P362+P364:Take off contaminated clothing and wash it before reuse.</p> <p>P391:Collect spillage.</p>
Precautionary Statement Storage	P405:Store locked up.
Precautionary Statement Disposal	P501:Dispose of contents/container in according with local regulation.
Other hazards which do not result in classification	Not available.

### 3. Composition/information on ingredients

☒ **Substances**

☐ **Mixtures**

#### Component Information

Component	CAS number	EINECS number	Mass(%wt)
cupric chloride dihydrate	10125-13-0	600-176-4	96

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%.

### 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	Gastric lavage with 0.1% potassium ferrocyanide. Give milk or egg whites. Seek medical attention.
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. Symptoms observed shortly before death were: Shock., renal failure. The chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 5. Fire-fighting measures

Suitable extinguishing agents	Substance is nonflammable, use agent most appropriate to extinguish surrounding fire.
Special hazards caused by the material, its products of combustion or flue gases	Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors (Copper oxides. Hydrogen chloride gas). Do not allow run-off from fire-fighting to enter drains or water courses.
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 dust.
Measures for environmental protection	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting	Pick up and arrange disposal in suitable container. Avoid dust generation. Clean contaminated surface thoroughly.
Additional information	See Section 7 for information on safe handling See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## 7. Handling and storage

### Handling

Information for safe handling

Avoid contact with skin, eyes, mucous membranes and clothing.

In case of insufficient ventilation, wear suitable respiratory equipment.

Avoid formation of dust and aerosols.

Information about protection against explosions and fires

Keep away from heat, sources of ignition, sparks or open flame.

### STORAGE

Requirements to be met by storerooms and containers

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

Keep away from fire and heat source. Avoid direct sunlight.

Keep tightly closed until used.

Store separately from oxidizing agents, acids and edible chemicals, avoid mixed storage.

Information about storage in one common storage facility

Store away from incompatible substances such as oxidizing agents, acids, edible chemicals.

Avoid dampness.

Further information about storage conditions

The storage area should be equipped with suitable materials to contain the leakage.

## 8. Exposure controls/personal protection

Limit Values for Exposure

### Component

CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH REL-TWA	NIOSH REL-STEL
10125-13-0	1 mg/m <sup>3</sup>	N.E.	1 mg/m <sup>3</sup>	N.E.

cupric chloride dihydrate  
Appropriate engineering controls

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

General protective and hygienic measures

Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Chemical safety glasses, gloves, overalls and protective masks.

Breathing equipment

When workers are facing high concentrations they must use appropriate certified respirators.

Protection of hands

Wear appropriate chemical resistant gloves.

Eye/Face protection

Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.

Body protection

Full set of anti chemical reagent overalls, choose body protection according to the amount and concentration of the dangerous substance at the work place.

Note: 1. N.E. means not established.

### 9. Physical and chemical properties

Physical state	Powder or rhombic bipyramid crystal
Colour	Green to blue
Odour	No data available
Melting point/freezing point	598 °C (Decompose) (cupric chloride) (Cupric chloride anhydrous)
Boiling point or initial boiling point and boiling range	993 °C (Change to cuprous chloride) (Cupric chloride anhydrous)
Flammability	Nonflammable
Lower and upper explosion limit/flammability limit	No data available
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	Not applicable
Solubility	Easily soluble in water, soluble in acetone, alcohol, ether, ammonium chloride. (Cupric chloride anhydrous)
Partition coefficient: n-octanol/water(log value)	No data available
Vapour pressure	No data available
Density and/or relative density(water=1)	3.386 (Cupric chloride anhydrous)
Relative vapour density (air=1)	Not applicable
Particle characteristics	No data available

### 10. Stability and reactivity

Reactivity	React violently with potassium and sodium. (Cupric chloride anhydrous)
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid (e.g. static discharge, shock or vibration)	Heat and flame and spark. The extreme temperatures and direct sunlight. Incompatible materials. Avoid dust formation.
Incompatible materials	Avoid contact with oxidizing agents, acids.
Hazardous decomposition products	May include hydrogen chloride gas, copper oxide.

### 11. Toxicological information

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

#### Acute Toxicity

Cupric chloride	LD50 (Oral, rat): 584 mg/kg
anhydrous (CAS	EC50 (Inhalation, rat): N/A
7447-39-4)	LD50 (Dermal, rat): 1224 mg/kg

Skin corrosion/Irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Not classified

Carcinogenicity Not classified

Reproductive toxicity Suspected of damaging fertility or the unborn child.

STOT-single exposure Not classified

STOT-repeated exposure Not classified

Aspiration hazard Not classified

Chronic Effects Not classified

Further Information No data

### 12. Ecological information

#### Ecotoxicity

Aquatic Toxicity	Cupric chloride anhydrous (CAS 7447-39-4)
	Test & Species
	96 Hr LC50 fish: 0.08 mg/l
	48 Hr EC50 Daphnia: 0.04 mg/l
	72 Hr EC50 Algae: N/A

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 authority requirements.

### 14. Transport information

The Recommendation of Transport of Dangerous Goods(TDG)

UN Number UN 2802

Proper Shipping Name COPPER CHLORIDE

Class/Division Class 8 Corrosive Substances



Package Group  
Subsidiary risk  
labelling pictogram

PG III



Maritime transport IMDG Being same with TDG  
Marine pollutant (Yes/No): Yes  
Air transport ICAO-TI Being same with TDG  
and IATA-DGR See A803 for the actual transport packaging.

### 15. Regulatory information

#### European/International Regulations

**OSHA:** Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200).

**EINECS Status:** Cupric chloride anhydrous (CAS 7447-39-4) is included in EINECS inventory.

**EPA TSCA Status:** Cupric chloride anhydrous (CAS 7447-39-4) is included in TSCA inventory.

**Canadian DSL (Domestic Substances List):** Cupric chloride anhydrous (CAS 7447-39-4) is included in DSL.

**HMIS (Hazardous Material Identification System Ratings):** Health: 3  
Flammability: 0  
Physical hazard: 0  
Personal protection: F  
(4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)

**WHMIS (Canadian Workplace Hazardous Material Identification System Ratings):** D1B, D2B, E

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

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
<b>Edit Date</b>	31.01.2024
<b>Update and Revise</b>	Original edition
<b>Edit Standard</b>	<i>Globally Harmonized System of Classification and Labelling of Chemicals</i> Part 1.5
<b>Revised Institution</b>	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: 二水氯化铜

编制日期: 2024-01-31

编制机构: 杭州海关技术中心

批准人:

万旺军

注: 1.除非特别说明, 本报告仅对样品负责。

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## 1. 标识

产品名称	二水氯化铜
其他名称	二水氯化铜
化学名称	二水氯化铜
使用建议	用于颜料、木材防腐等工业，并用作消毒剂、媒染剂、催化剂
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镇清泉路 102 号/311404
固定电话	+86-0571-6332 5889
传真	+86-0571-6332 5889
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	急性毒性-口服 4 类 急性毒性-皮肤 4 类 皮肤腐蚀/刺激 2 类 严重眼损伤/眼刺激 1 类 皮肤敏化作用 1 类 生殖毒性 2 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
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### GHS 危险标签



### 信号词 危险说明

危险  
 H302: 吞咽有害  
 H312: 皮肤接触有害  
 H315: 造成皮肤刺激  
 H318: 造成严重眼损伤  
 H317: 可能引起皮肤过敏反应  
 H361: 怀疑可对生育能力或胎儿造成伤害  
 H400: 对水生生物毒性极大  
 H410: 对水生生物毒性极大并具有长期持续影响

### 防范说明 预防

P203: 使用前索取，阅读并遵照所有安全说明书。  
 P261: 避免吸入粉尘/烟/气体/气雾/蒸气/喷雾。  
 P264: 作业后彻底清洗手部[和……]。  
 P264+P265: 作业后彻底清洗手部[和……]。勿触碰眼睛。  
 P270: 使用本产品时，不要进食、饮水或吸烟。  
 P272: 受污染的工作服不得带出工作场地。  
 P273: 避免释放到环境中。  
 P280: 戴防护手套/穿防护服/戴防护眼罩/戴防护面具/戴听力保护装

防范说明 反应	置..... P301+P317:如误吞咽：寻求医疗救助。 P302+P352:如皮肤沾染：用大量水或...清洗。 P305+P354+P338:如进入眼睛：立即用水冲洗几分钟。如戴隐形眼镜且可方便得取出，取出隐形眼镜。继续冲洗。 P317:寻求医疗救助。 P318:如接触到或有疑虑：求医。 P321:具体治疗（见本标签上的附加急救措施）。 P330:漱口。 P332+P317:如发生皮肤刺激：寻求医疗救助。 P333+P317:如发生皮肤刺激或皮疹：寻求医疗救助。 P362+P364:脱掉沾染的衣服，清洗后方可重新使用。 P391:收集溢出物。 P405:存放处须加锁
防范说明 贮存	
防范说明 处置	P501:依据地方法规处置内装物/容器
不导致分类的其他危险	未知。
3. 成分构成/成分信息	
<input checked="" type="checkbox"/> 物质 <input type="checkbox"/> 混合物	
成分信息	
成分	CAS 号EINECS 号含量(%wt)
二水氯化铜	10125-13-0600-176-496
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。
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。
眼睛接触后	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冲洗眼睛。马上就医。
摄入后	用 0.1%亚铁氰化钾洗胃。给饮牛奶或蛋清。就医。
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。死亡之前的症状是：休克，肾衰竭。 此化学品，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	物质不易燃，使用适合扑灭周围火灾的灭火剂。
由物质本身或其燃烧产物、烟气产生的特殊危险	不可燃。热分解会导致刺激性气体和蒸汽的释放（铜的氧化物，氯化氢气体）。不要让灭火的径流进入下水道或水道。
防护设备	在上风处灭火，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。
环境保护措施	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。避免灰尘生成。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

<b>操作</b>	
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。
<b>存储</b>	
对储藏室和容器的要求	存放在阴凉、干燥、通风良好的地方。 远离火种、热源。防止阳光直射。 使用前保持容器密闭。 应与氧化剂，酸类，食用化学品等分开存放，切忌混储。
关于储藏在普通存储设施中的信息	远离不相容的物质如氧化剂，酸类，食用化学品。 防潮。
关于储藏条件进一步的信息	储区应具备有合适的材料收容泄漏物。

#### 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
二水氯化铜	10125-13-0	1 mg/m <sup>3</sup>	N.E.	1 mg/m <sup>3</sup>	N.E.
减少接触的工程控制方法		采用局部排气设备或者其他的工程控制措施来保持空气水平低于推荐暴露限值。储存和使用该材料区域应配备一个洗眼器和一个安全淋浴设施。			
一般保护和卫生措施		不要让该物质与皮肤、衣物、眼睛接触。依据良好的工业卫生和安全条例操作。在休息和一天工作结束前要洗手。			
个人防护用品		化学安全眼镜、手套、工作服和防护面罩。			

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	全套防化学试剂工作服，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含量来选择。

注:1. N.E. 一未建立。

## 9.物理和化学特性

物理状态	粉末或斜方双锥体晶体
颜色	绿色至蓝色
气味	无数据资料
熔点/凝固点	598 °C（分解）（无水氯化铜）
沸点或初始沸点和沸程	993 °C（转变为氯化亚铜）（无水氯化铜）
易燃性	不易燃
上、下爆炸极限/易燃极限	无数据资料
闪点	不适用
自燃温度	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	不适用
溶解性	易溶于水，溶于丙酮、醇、醚、氯化铵（无水氯化铜）
分配系数:正辛醇/水（对数值）	无数据资料
蒸汽压	无数据资料
密度和/或相对密度（水=1）	3.386（无水氯化铜）
相对蒸气密度（空气=1）	不适用
颗粒特征	无数据资料

## 10. 稳定性和反应活性

反应性	与钾、钠等禁配物发生剧烈反应。（无水氯化铜）
化学稳定性	在要求的贮存条件下稳定。
有害反应的可能性	不会发生危害聚合作用。
需避开的条件（如：静电放电，震动等）	热、火焰和火花。极端的温度和阳光直射。不相容物质。避免粉尘的形成。
不相容的物质	避免和氧化剂，酸类接触。
有害分解产物	可能包括氯化氢，铜的氧化物。

## 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	
无 水 氯 化 铜 （ CAS 7447-39-4）	LD50（口服，大鼠）： 584 mg/kg LC50（吸入，大鼠）： 未知 LD50（皮肤，大鼠）： 1224 mg/kg
皮肤腐蚀/刺激	造成皮肤刺激。
严重眼损伤/刺激	造成严重眼损伤。
呼吸或皮肤敏化作用	可能导致皮肤过敏反应。



生殖细胞致突变性	未分类
致癌性	未分类
生殖毒性	怀疑对生育能力或胎儿造成伤害。
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	无水氯化铜 (CAS 7447-39-4) 测试 & 物种 96 Hr LC50 鱼: 0.08 mg/l 48 Hr EC50 溞类: 0.04 mg/l 72 Hr EC50 藻类: 未知
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 2802
正式运输名称	氯化铜
危险类/项别	第 8 类 腐蚀性物质
包装类别	PG III
次要危险性	—
危险性标签	



国际海运危规 IMDG	与 TDG 的分类相同
国际空运危规 ICAO-TI 和 IATA-DGR	海洋污染物 (是/否): 是 与 TDG 的分类相同 实际运输包装详见 A803

## 15. 法规信息

### 欧洲/国际法规

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

**健康管理法):**

**EINECS (欧洲现有商业化物质名录):** 无水氯化铜 (CAS 7447-39-4) 已被列入 EINECS 目录中。

**EPA TSCA(有毒物质控制法):** 无水氯化铜 (CAS 7447-39-4) 已被列入 TSCA 目录中。

**加拿大 DSL(国内物质清单):** 无水氯化铜 (CAS 7447-39-4) 已被列入 DSL 目录中。

**HMIS(危险品识别系统):** 健康危害: 3  
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(加拿大工作场所有害物质识别系统):** D1B, D2B, E

**GB 12268-2012 危险品清单** 该化学品作为危险品被列入 GB 12268-2012 危险品清单。

**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的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》  
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

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