

## 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: TCH22014166 No: TCH22014166 日期: 2022-09-16 Date: 2022-09-16

ZAIQ-RF(HH)-01-19

# Safety Data Sheet



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

**Product Name: Cupric carbonate basic** 

Edit date: 2022-09-16

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

Approver: 万时道

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

2. This test report can not be reproduced, except in full, without prior written permission of the lab.



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# 声明

### DECLARATION

1.本报告中检测结果仅对样品负责。

The result in this test report is only valid for the tested samples.

2.本报告无授权人签字、未加盖本机构报告专用章无效。

This report is invalid without authorized signature or the stamp of this organization.

3.对本报告中检测数据如有异议,请在收到报告后十五天内提出复测申请(部分特殊项目不能复

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。

If there is any dissidence to the test data, the entrusting party shall apply for retesting within 15 days upon receiving this report (Some special item can not be retested). The former tested samples will be used as the retested ones. If the retest results are the same as the former ones, the retest fee will be paid by the entrusting party.

4.本报告各页均为报告不可分割部分,使用者部分使用检测报告而导致误解或由此造成后果,本 机构不承担任何责任。

This report shall be used in integrity. This organization will not be responsible for any misleading caused by the content of this report.

	1. Identification of substance
Product Name	Cupric carbonate basic
Other Name	Basic copper carbonate
Chemical Name	$Cu_2(OH)_2 \cdot CO_3$
Recommended Use	Used for making fireworks, paint pigment, used as pigment,
	insecticide, phosphorus poison antidote, electroplating, etc.
Manufacturer Name	Hangzhou Fuyang Hongyuan Renewable Resources Co., LTD
Address	NO.100 Qingquan Road, Xindeng New Area, Fuyang Economic
	and Technological Development Zone, Hangzhou City,
	Zhejiang Province /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 11
GHS classification	2. Hazards identification
GHS CIASSIFICATION	Acute toxicity-oral 4 Acute toxicity- inhalation 4
	Skin corrosion/irritation 2
	Serious eye damage/eye irritation 2A
	Specific target organ toxicity, single exposure 3
	Hazardous to the aquatic environment, acute hazard 1
	Hazardous to the aquatic environment, long-term hazard 1
GHS Pictograms	
Signal words	Warning
Signal words Hazard statements	Warning H302:Harmful if swallowed
Tiazaiù Statements	H332:Harmful if swallowed
	H315:Causes skin irritation
	H319:Causes serious eye irritation
	H335:May cause respiratory irritation
	H400:Very toxic to aquatic life
	H410:Very toxic to aquatic life with long lasting effects
Precautionary Statement	P261:Avoid breathing dust/fume/gas/mist/vapours/spray.
Prevention	P264: Wash hands thoroughly after handling.
	P264+P265:Wash hands [and] thoroughly after handing. Do
	not touch eyes.
	P270:Do not eat, drink or smoke when using this product.
	P271:Use only outdoors or in a well-ventilated area. P273:Avoid release to the environment.
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Safety Data Sheet Page 2 of 8

Cupric carbonate basic According to GHS rev 9

Precautionary Statement	P280:Wear protective gloves, protection/face protection/hearing pP301+P317:IF SWALLOWED: Get m	protection. nedical help.
Response	P302+P352:IF ON SKIN: Wash with P304+P340:IF INHALED: Remove p	
	comfortable for breathing. P305+P351+P338:IF IN EYES: Rins several minutes. Remove contact led do. Continue rinsing. P317:Get medical help. P319:Get medical help if you feel up	nses, if present and easy to
	P321:Specific treatment (see the instruction).	e supplemental first aid
	P330:Rinse mouth. P332+P317:If skin irritation occurs P337+P317:If eye irritation persists P362+P364:Take off contaminat before reuse. P391:Collect spillage.	s: Get medical help.
Precautionary Statement Storage	P403+P233:Store in a well-ventila tightly closed. P405:Store locked up.	ted place. Keep container
Precautionary Statement	P501:Dispose of contents/contained	er in according with local
Disposal Other hazards which do	regulation. Not available.	
not result in classification	Not available.	
	Composition/information on ingredie	nts
√Substances	, , , , , , , , , , , , , , , , , , ,	
□Mixtures		
Component Information		
Component	CAS number EINECS num	` '
Cupric carbonate basic	12069-69-1 235-113-6	
	presents a severe hazard, it does not nee	d to be considered in the SDS
if the concentration is less th		
	4.First-aid measures	
NOTE TO PHYSICIAN	In case of shortness of breath, give of Keep victim under observation.	oxygen. Keep victim warm.
After inhalation	Move to fresh air. Oxygen or artifici Get immediate medical attention.	al respiration if needed.
After skin contact	Immediately flush skin with plent isolate contaminated clothing and s get medical attention immediately	shoes. If irritation persists,

separately before reuse.

avoid spreading material on unaffected skin. Wash clothing

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Cupric carbonate basic According to GHS rev 9

1	
After eye contact  After ingestion	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. Immediately make victim drink water (two glasses at most).
Arter ingestion	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. Shock and kidney failure can lead to death.  Chronic copper toxicity includes liver cirrhosis, brain damage and demyelination, kidney damage; copper deposits in the cornea cause human Wilson disease. Copper toxicity has also been reported to cause hemoglobin anemia and aggravate arteriosclerosis.  To the best of our knowledge, this chemical, physical and toxic property has not been fully studied.
	5. Fire-fighting measures
Suitable extinguishing	Substance is nonflammable, use agent most appropriate to
agents	extinguish surrounding fire.
Special hazards caused	Nonflammable. Thermal decomposition can lead to the release
by the material, its	of irritating fumes and vapours (oxides of copper). Do not let
products of combustion	firefighting runoff enter sewers or waterways.
or flue gases	
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	Prevent further leakage or spillage if safe to do so. Do not allow
environmental protection	material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting	Pick up and arrange disposal in suitable container. Clean contaminated surface thoroughly.
Additional information	See Section 7 for information on safe handling
, idaliconal illiorifiation	See section 8 for information on personal protection
	equipment. See Section 13 for information on disposal.
	See Section 13 for information on disposal.

Cupric carbonate basic		
7. Handling and storage		
Handling		
Information for safe	Avoid contact with skin, eyes, mucous membranes and	
handling	clothing.	
	In case of insufficient ventilation, wear 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		
Requirements to be met	Keep in a cool, dry, well-ventilated place.	
by storerooms and	Keep away from fire and heat source. Avoid direct sunlight.	
containers	Keep tightly closed until used. Avoid moisture.	
Information about	Store separately from oxidants, acids and edible chemicals,	
storage in one common	and avoid mixed storage.	
storage facility	Storage areas should be provided with suitable materials to	
	contain spills.	
Further information about	No data.	
storage conditions	-	
	Exposure controls/personal protection	
Limit Values for Exposure		
Component	CAS number ACGIH ACGIH NIOSH NIOSH TLV-TWA TLV-STEL PEL-TWA PEL-STEL	
Component  Cupric carbonate basic	CAS number	
	TLV-TWA TLV-STEL PEL-TWA PEL-STEL	
Cupric carbonate basic	TLV-TWA TLV-STEL PEL-TWA PEL-STEL  12069-69-1 N.E. N.E. 1 mg/m³ N.E.  Use adequate ventilation to keep airborne concentrations low.  Provide safety shower and eyewash facility.	
Cupric carbonate basic Appropriate engineering	TLV-TWA TLV-STEL PEL-TWA PEL-STEL  12069-69-1 N.E. N.E. 1 mg/m <sup>3</sup> N.E.  Use adequate ventilation to keep airborne concentrations low.	
Cupric carbonate basic Appropriate engineering controls	TLV-TWA TLV-STEL PEL-TWA PEL-STEL  12069-69-1 N.E. N.E. 1 mg/m³ N.E.  Use adequate ventilation to keep airborne concentrations low.  Provide safety shower and eyewash facility.	
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Cupric carbonate basic Appropriate engineering controls General protective and hygienic measures	TLV-TWA TLV-STEL PEL-TWA PEL-STEL  12069-69-1 N.E. N.E. 1 mg/m³ N.E.  Use adequate ventilation to keep airborne concentrations low.  Provide safety shower and eyewash facility.  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.	
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Cupric carbonate basic Appropriate engineering controls General protective and hygienic measures  Personal protective equipment Breathing equipment  Protection of hands	TLV-TWA TLV-STEL PEL-TWA PEL-STEL  12069-69-1 N.E. N.E. 1 mg/m³ N.E.  Use adequate ventilation to keep airborne concentrations low.  Provide safety shower and eyewash facility.  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.  Chemical safety glasses, gloves, overalls and protective masks.  When workers are facing high concentrations they must use appropriate certified respirators.  Wear appropriate chemical resistant gloves.	
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Cupric carbonate basic Appropriate engineering controls General protective and hygienic measures  Personal protective equipment Breathing equipment  Protection of hands Eye/Face protection	TLV-TWA TLV-STEL PEL-TWA PEL-STEL  12069-69-1 N.E. N.E. 1 mg/m³ N.E.  Use adequate ventilation to keep airborne concentrations low.  Provide safety shower and eyewash facility.  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.  Chemical safety glasses, gloves, overalls and protective masks.  When workers are facing high concentrations they must use appropriate certified respirators.  Wear appropriate chemical resistant gloves.  Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.	
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Safety Data Sheet Page 5 of 8 Cupric carbonate basic According to GHS rev 9

Colour Green

Odour No data available 200 °C (decompose) Melting point/freezing

point

Boiling point or initial No data available

boiling point and boiling

range

Nonflammable Flammability No data available Lower and upper

explosion limit/ flammability limit

Flash point Not applicable No data available Auto-ignition

temperature

Decomposition No data available

temperature

рΗ No data available Kinematic viscosity Not applicable

Solubility Insoluble in water, soluble in acid, ammonia, etc

Partition coefficient: No data available

n-octanol/water(log

value)

Vapour pressure No data available Density and/or relative 4.0 (water=1)

density

Relative vapour density Not applicable

(air=1)

Particle characteristics No data available

10. Stability and reactivity

React violently with strong acids and hydrazine. Reactivity Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

No data available.

Conditions to avoid (e.g.

Heat and flame and spark. The extreme temperatures and static discharge, shock or direct sunlight. Incompatible materials. Avoid dust formation.

vibration)

Incompatible materials Avoid contact with oxidants, acids.

Hazardous decomposition Copper oxide.

products

11.Toxicological information

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

**Acute Toxicity** 

Cupric carbonate basic LD50 (Oral, rat): 1,385 mg/kg (CAS 12069-69-1) EC50 (Inhalation, rat): N/A

Safety Data Sheet
Page 6 of 8

Cupric carbonate basic
According to GHS rev 9

LD50 (Dermal, rabbit): N/A

Skin corrosion/Irritation Causes skin irritation.

Serious eye Causes serious eye irritation.

damage/irritation

Respiratory or skin Not classified

sensitization

Germ cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity Not classified

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure Not classified Aspiration hazard Not classified Chronic Effects Not classified

Further Information Inhalation of copper carbonate smoke can cause metal smoke

heat. Liver and kidney damage and hemolysis occurred. Long

term inhalation can cause pulmonary fibrosis.

### 12. Ecological information

Ecotoxicity

Aquatic Toxicity Cupric carbonate basic (CAS 12069-69-1)

Test & Species
96 Hr LC50 fish: N/A
48 Hr EC50 Daphnia: N/A
72 Hr EC50 Algae: N/A

Persistence and Not available

degradability

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 3077

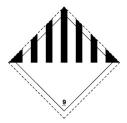
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Cupric carbonate basic)

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:** This chemical is included in EINECS inventory. **EPA TSCA Status:** This chemical is included in TSCA inventory.

**Canadian** This chemical 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 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

Safety Data Sheet
Page 8 of 8

Cupric carbonate basic
According to GHS rev 9

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 ADR: European Agreement concerning the International Carriage of

acronyms 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

Edit Date 16.09.2022
Update and Revise 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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编号: TCH22014166 No: TCH22014166 日期: 2022-09-16 Date: 2022-09-16

ZAIQ-RF(HH)-01-19

# 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: 碱式碳酸铜

编制日期: 2022-09-16

编制机构: 杭州海关技术中心

批准人: 万旺季

注: 1.除非特别说明,本报告仅对样品负责。

2.未经本实验室许可,本报告不得部分复制。



### 国家危险化学品检测重点实验室(浙江)



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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。

If there is any dissidence to the test data, the entrusting party shall apply for retesting within 15 days upon receiving this report (Some special item can not be retested). The former tested samples will be used as the retested ones. If the retest results are the same as the former ones, the retest fee will be paid by the entrusting party.

4.本报告各页均为报告不可分割部分,使用者部分使用检测报告而导致误解或由此造成后果,本 机构不承担任何责任。

This report shall be used in integrity. This organization will not be responsible for any misleading caused by the content of this report.

1. 标识 产品名称 碱式碳酸铜 其他名称 碱式碳酸铜 化学名称 碱式碳酸铜 使用建议 用于制焰火、油漆颜料,用作颜料、杀虫剂、磷毒的解毒剂,电镀等。 生产商 杭州富阳鸿源再生资源利用有限公司 地址 浙江省杭州市富阳工业区新登新区清泉路 100 号/311404 固定电话 +86-0571-63325889 +86-0571-63325889 传真 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-吸入 4类皮肤腐蚀/刺激 2类

严重眼损伤/眼刺激 2A 类

特定目标器官毒性-单次接触 3 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

防范说明



信号词 警告

危险说明 H302:吞咽有害 H332:吸入有害

H315:造成皮肤刺激 H319:造成严重眼刺激 H335:可能造成呼吸道刺激 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 P261:避免吸入粉尘/烟/气体/烟雾/蒸汽/喷雾

预防 P264:作业后彻底清洗双手

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

P271:只能在室外或通风良好处使用

P273:避免释放到环境中

P280:戴防护手套/穿防护服/戴防护眼罩/面具/听力保护。

防范说明 P301+P317:如误吞咽:寻求医疗救助。

反应 P302+P352:如皮肤沾染: 用大量水或…清洗

P304+P340:如误吸入:将受害人转移到空气新鲜处,保持呼吸舒适

P305+P351+P338:如进入眼睛:用水小心冲洗几分钟。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。

P319:如感觉不适,需求医。

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。P337+P317:如仍觉眼刺激: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

防范说明 P403+P233:存放于通风良好处并保持容器密闭

贮存 P405:存放处须加锁

防范说明 P501:依据地方法规处置内装物/容器

**外**置

不导致分类的其他危险 未知。

### 3. 成分构成/成分信息

### √物质

□混合物

成分信息

成分 CAS 号 EINECS 号 含量(%) 碱式碳酸铜 12069-69-1 235-113-6 97%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。

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 立即让伤者饮水(最多2杯),请教医生。

主要的症状和影响,包括 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

急性和迟发效应 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 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不可燃。热分解会导致刺激性烟雾和蒸汽的释放(铜的氧化物)。不物,烟气文件的特殊会验,两次不收的经济进入下水流或水流

物、烟气产生的特殊危险 要让灭火的径流进入下水道或水道。

第3页共6页 碱式碳酸铜 依据 GHS 第9修订版编写

防护设备 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。

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。

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。 清洁/收集措施

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

避免和皮肤、眼睛、粘膜、衣服接触。 安全操作的信息

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

存放在阴凉、干燥、通风良好的地方。 对储藏室和容器的要求

> 远离火种、热源。防止阳光直射。 使用前保持容器密闭。切勿受潮。

关于储藏在普通存储设施 应与氧化剂、酸类、食用化学品分开存放,切忌混储。

中的信息

储区应备有合适的材料收容泄漏物。

关于储藏条件进一步的信 无其他说明。

8. 暴露控制/人身保护

暴露限值

成分 CAS 号

ACGIH ACGIH 阈限值-时 阈限值-短 间加权平 时间接触 均浓度 限值

NIOSH 阈 NIOSH 阈 限值-时间加 限值-短时 权平均浓度 间接触限值

碱式碳酸铜

12069-69-1

N.E. N.E.  $1 \text{ mg/m}^3$ 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。提供安全淋浴和洗眼设备。

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 一般保护和卫生措施

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 双手保护 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。

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。 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

身体保护

的危险物的浓度和含量来选择。

### 碱式碳酸铜

### 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 粉末 颜色 绿色

气味 无数据资料 熔点/凝固点 200 ℃ (分解)

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 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 不溶于水,溶于酸、氨水等

分配系数:正辛醇/水(对 无数据资料

数値)

蒸汽压 无数据资料 密度和/或相对密度 4.0 (水=1) 相对蒸气密度(空气=1) 不适用 无数据资料 颗粒特征

### 10. 稳定性和反应活性

可能与强酸、肼发生剧烈反应。 反应性 化学稳定性 在要求的贮存条件下稳定。

有害反应的可能性 无数据资料

需避开的条件 (如:静电 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

放电,震动等) 形成。

不相容的物质 避免和氧化剂、酸类接触。

有害分解产物 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

碱 式 碳 酸 铜 ( CAS LD50 (口服, 大鼠): 1,385 mg/kg

LC50(吸入,大鼠): 未知 12069-69-1)

LD50 (皮肤, 兔子): 未知

皮肤腐蚀/刺激 造成皮肤刺激。 严重眼损伤/刺激 造成严重眼刺激。

呼吸或皮肤敏化作用 未分类 生殖细胞致突变性 未分类 致癌性 未分类 生殖毒性 未分类

特定目标器官毒性-单次接触 可能造成呼吸道刺激。

特定目标器官毒性-重复接触 未分类 碱式碳酸铜

吸入危险 未分类 慢性影响 未分类

其他信息 吸入碳酸铜烟可引起金属烟热。出现肝、肾损害及溶血。长期吸

入可引起肺部纤维组织增生。

12. 生态学信息

生态毒性

碱式碳酸铜 (CAS 12069-69-1) 水生毒性

测试 & 物种

96 Hr LC50 鱼: 未知 72 Hr EC50 藻类: 未知 48 Hr EC50 溞类: 未知

持久性和降解性 未知 未知 潜在的生物累积性 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)

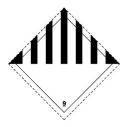
UN 编号 UN 3077

正式运输名称 对环境有害的固态物质,未另作规定的(碱式碳酸铜)

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 该化学品已被列入 EINECS 目录中。

业化学物质名录):

EPA TSCA(有毒物质控 该化学品已被列入 TSCA 目录中。

制法):

加拿大 **DSL(国内物质** 该化学品已被列入 **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》

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

编制日期 2022.09.16

更新和修改 第1版

编制标准 全球化学品统一分类和标签制度 第 1.5 部分

编制机构 杭州海关技术中心