



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: TCH24016661 No: TCH24016661 日期: 2024-07-25 Date: 2024-07-25

ZAIQ-RF(HH)-01-19

Safety Data Sheet



Applicant name: Hangzhou Haoteng Technology Co., Ltd

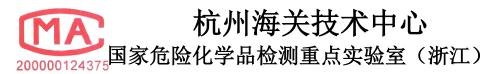
Product Name: Cuprous Oxide

Edit date: 2024-07-25

Edit institution: Technology Center of Hangzhou Customs District

Approver: 万时多

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

DECLARATION

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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.

Cuprous Oxide	According to GHS fev 10				
	1. Identification of substance				
Product Name	Cuprous Oxide				
Other Name	Cuprous Oxide				
Chemical Name	Cu ₂ O				
Recommended Use	Mainly used for manufacturing ship bottom anti fouling pa				
	insecticides, analytical reagents, red glass, and also				
	preparing copper plating and copper alloy plating solutions.				
Manufacturer Name	Hangzhou Haoteng Technology Co., Ltd				
Address	100 Qingquan Road, Xindeng Town, Fuyang District, Hangzh				
	City, Zhejiang Province, China / 311404				
Phone Number	+86-0571-63325889				
Fax Number	+86-0571-63325889				
WEB or E-mail	alice@fyhongyuan.com				
Emergency Phone	+86-137 7759 8016 or call your nearest poison control centre.				
Number					
	2. Hazards identification				
GHS classification	Acute toxicity-oral 4				
	Acute toxicity- inhalation 4				
	Serious eye damage/eye irritation 1				
	Hazardous to the aquatic environment, acute hazard 1				
CLIC Diete supre	Hazardous to the aquatic environment, long-term hazard 1				
GHS Pictograms					
	The state of the s				
Signal words	Danger				
Hazard statements	H302:Harmful if swallowed				
	H332:Harmful if inhaled				
	H318:Causes serious eye damage				
	H400:Very toxic to aquatic life				
Droopution and Chatagoria	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 [and] thoroughly after handing.				
	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 with adequate ventilation.				
	P273:Avoid release to the environment.				
	P280: Wear protective gloves/protective clothing/eye				
	protection/face protection/hearing protection/				
Precautionary Statement	P301+P317:IF SWALLOWED: Get medical help.				
Response	P304+P340:IF INHALED: Remove person to fresh air and keep				
1.100001100	1 30 1 1 3 10111 11111/LED1 Nemove person to mesh an una keep				

Safety Data Sheet Page 2 of 8 **Cuprous Oxide** According to GHS rev 10

comfortable for breathing.

P305+P354+P338:IF IN EYES:Immediately rinse with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P317:Get medical help. P330:Rinse mouth.

P391:Collect spillage.

Precautionary Statement

Storage

Precautionary Statement

Disposal

Other hazards which do not result in classification None.

P501:Dispose of contents/container in according with local

liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper

regulation.

Not available.

3. Composition/information on ingredients

□Substances

√ Mixtures

Component	CAS number	EINECS number	Mass(%wt)
Cuprous Oxide	1317-39-1	215-270-7	98
Copper	7440-50-8	231-159-6	1

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%.

If the concentration is less than 170.				
	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. Give one or two glasses of water to drink. Consult a physician.			
Most important symptoms/effects, acute	Harmful if swallowed. Harmful if inhaled. Causes serious eye damage.			
and delayed	Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and			

<u> </u>	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.		
5. Fire-fighting measures			
Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases	In case of fire in the surroundings, use appropriate extinguishing media. Not combustible. 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 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	Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.		
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	7. Harianing and Storage		
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. Avoid breathing dust/fume/gas/mist/vapours/spray.		

Safety Data Sheet

Cuprous Oxide

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According to GHS rev 10

Information about Keep away from heat, sources of ignition, sparks or open flame. Avoid contact with aluminum powder. protection against explosions and fires STORAGE Keep in a cool, dry, well-ventilated warehouse. Requirements to be met by storerooms and Keep tightly closed until used. Prevent it from becoming copper containers oxide in contact with air and reduce the value of use. Information about Avoid storage and transportation with oxidants, strong acids, storage in one common strong bases and edible items. storage facility Further information about No data. storage conditions

6. Exposure controls/personal protection					
Limit Values for Exposure					
Component	CAS number		ACGIH TLV-STEL		NIOSH REL-STEL
Cuprous Oxide	1317-39-1	N.E.	N.E.	1 mg/m³	N.E.
Copper	7440-50-8	1 mg/m³	N.E.	1 mg/m³	N.E.
Appropriate engineering	Use adequate ventilation to keep airborne concentrations low.				trations low.
controls	Provide safety shower and eye wash facilities.				
General protective and	Do not get this material in contact with skin. Do not get this				
hygienic measures	material on clo			•	
	accordance wi	-	, -		
	Wash hands b				•
Personal protective	Chemical safety glasses, gloves, overalls and protective				
equipment	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 ba	arrier for pro	longed expo	sure.	
Body protection	Full set of anti chemical reagent overalls, choose body				
	protection acc	ording to th	e amount ar	nd concentra	tion of the
	dangerous sub	ostance at th	ne work plac	ce.	
Note: 1. N.E. not established.					

Note: 1. N.E. not established

	9.Physical and chemical properties
Physical state	Amorphous powder
Colour	Brick-red
Odour	No data available
Melting point/freezing point	1232 ℃
Boiling point or initial boiling point and boiling range	1800 °C (Decompose)

Cuprous Oxide	According to GHS rev 10
Flammability	Nonflammable
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	
pH	No data available
Kinematic viscosity	No data available
Solubility	Insoluble in water
Partition coefficient:	No data available
n-octanol/water(log	
value)	
Vapour pressure	No data available
Density and/or relative	6.0
density (water=1)	
Relative vapour density	No data available
(air=1)	
Particle characteristics	No data available
	10. Stability and reactivity
Reactivity	Poacts with aluminum nowder, which pocces a rick of fire and
reactivity	Reacts with aluminum powder, which poses a risk of fire and
,	explosion.
Chemical stability	explosion. Stable under recommended storage conditions.
Chemical stability Possibility of hazardous	explosion.
Chemical stability Possibility of hazardous reactions	explosion. Stable under recommended storage conditions. Hazardous polymerization does not occur.
Chemical stability Possibility of hazardous reactions Conditions to avoid (e.g.	explosion. Stable under recommended storage conditions. Hazardous polymerization does not occur. Exposure to air. Incompatible materials. Exposure to moist air
Chemical stability Possibility of hazardous reactions Conditions to avoid (e.g. static discharge, shock or	explosion. Stable under recommended storage conditions. Hazardous polymerization does not occur.
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Chemical stability Possibility of hazardous reactions Conditions to avoid (e.g. static discharge, shock or vibration) Incompatible materials	explosion. Stable under recommended storage conditions. Hazardous polymerization does not occur. Exposure to air. Incompatible materials. Exposure to moist air or water. Oxidants, strong acids, alkalis, etc.
Chemical stability Possibility of hazardous reactions Conditions to avoid (e.g. static discharge, shock or vibration) Incompatible materials Hazardous decomposition	explosion. Stable under recommended storage conditions. Hazardous polymerization does not occur. Exposure to air. Incompatible materials. Exposure to moist air or water. Oxidants, strong acids, alkalis, etc. Hazardous decomposition products formed under fire
Chemical stability Possibility of hazardous reactions Conditions to avoid (e.g. static discharge, shock or vibration) Incompatible materials	explosion. Stable under recommended storage conditions. Hazardous polymerization does not occur. Exposure to air. Incompatible materials. Exposure to moist air or water. Oxidants, strong acids, alkalis, etc. Hazardous decomposition products formed under fire conditions: Copper oxides.
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Chemical stability Possibility of hazardous reactions Conditions to avoid (e.g. static discharge, shock or vibration) Incompatible materials Hazardous decomposition products Routes of Entry: Dermal conducts Acute Toxicity Cuprous Oxide (CAS 1317-39-1)	explosion. Stable under recommended storage conditions. Hazardous polymerization does not occur. Exposure to air. Incompatible materials. Exposure to moist air or water. Oxidants, strong acids, alkalis, etc. Hazardous decomposition products formed under fire conditions: Copper oxides. 11.Toxicological information ontact, eye contact, inhalation, ingestion. LD50 (Oral, rat): 500 mg/kg LC50 (Inhalation, rat): 3.34 mg/l (4 h) LD50 (Dermal, rabbit): >2000 mg/kg
Chemical stability Possibility of hazardous reactions Conditions to avoid (e.g. static discharge, shock or vibration) Incompatible materials Hazardous decomposition products Routes of Entry: Dermal conducts Route Toxicity Cuprous Oxide (CAS 1317-39-1) Skin corrosion/Irritation	explosion. Stable under recommended storage conditions. Hazardous polymerization does not occur. Exposure to air. Incompatible materials. Exposure to moist air or water. Oxidants, strong acids, alkalis, etc. Hazardous decomposition products formed under fire conditions: Copper oxides. 11.Toxicological information ontact, eye contact, inhalation, ingestion. LD50 (Oral, rat): 500 mg/kg LC50 (Inhalation, rat): 3.34 mg/l (4 h) LD50 (Dermal, rabbit): >2000 mg/kg Not classified
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Safety Data Sheet

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Cuprous Oxide

According to GHS rev 10

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 The substance is irritating to the eyes and respiratory tract.

Inhalation of fumes may cause metal fume fever. Ingestion could cause effects on the kidneys and liver. The effects may be delayed. Repeated or prolonged contact with skin may

cause dermatitis.

Evaporation at 20 $^{\circ}$ C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when

dispersed.

12. Ecological information

Ecotoxicity

Aquatic Toxicity Cuprous Oxide (CAS 1317-39-1)

Test & Species

96 Hr LC50 fish: 0.075 mg/l 48 Hr EC50 Daphnia: 0.042 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 3077

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

(Cuprous Oxide)

Class/Division Class 9 Miscellaneous Dangerous Substances and Articles

Package Group PG III Subsidiary risk —

Safety Data Sheet

Cuprous Oxide

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According to GHS rev 10

labelling pictogram



Maritime transport IMDG Being same with TDG

Marine pollutant (Yes/No): Yes

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

B4, D2B(Copper)

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

Slight Hazard; 0. Minimal Hazard)

WHMIS(Canadian

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

Safety Data Sheet **Cuprous Oxide**Page 8 of 8

According to GHS rev 10

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

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
Update and Revise

25.07.2024

and Revise Original edition

Edit Standard

Globally Harmonized System of Classification and Labelling for

Chemicals Part 1.5

Revised Institution Technology Center of Hangzhou Customs District



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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化学品安全数据表



申请单位: 杭州豪腾科技有限公司

产品名称: 氧化亚铜

编制日期: 2024-07-25

编制机构: 杭州海关技术中心

批准人: 万旺美

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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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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 氧化亚铜 其他名称 氧化亚铜 化学名称 氧化亚铜 使用建议 主要用于制造船底防污漆、杀虫剂、分析试剂、红色玻璃、还用于镀 铜及镀铜合金溶液的配制。 生产商 杭州豪腾科技有限公司 地址 浙江省杭州市富阳区新登镇清泉路 100 号/311404 +86-0571-63325889 固定电话 传真 +86-0571-63325889 网址或电子邮件地址 alice@fyhongyuan.com 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 严重眼损伤/眼刺激 1 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 危险

危险说明 H302:吞咽有害 H332:吸入有害

H318:造成严重眼损伤 H400:对水生生物毒性极大

H410:对水生生物毒性极大并具长期持续影响 P261:避免吸入粉尘/烟/气体/气雾/蒸气/喷雾。

预防 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。 P271:只能在室外或充分通风的情况下使用。

P273:避免释放到环境中。

P280:戴防护手套/穿防护服/戴防护眼罩/戴防护面具/戴听力保护装

置.....

防范说明 P301+P317:如误吞咽: 寻求医疗救助。

反应 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+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。

第2页共6页 氧化亚铜 依据 GHS 第十修订版编写

P330:漱口。

P391:收集溢出物。

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

处置

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

CAS 号 EINECS 号 含量(%wt) 成分 氧化亚铜 1317-39-1 98 215-270-7 铜 7440-50-8 231-159-6 1

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

在呼吸急促的情况下,需给受害人输氧。保持受害人温暖。 对医师的建议

让受害人处于观察监护下。

转移到有新鲜空气的地方。如需要,须输氧或进行人工呼吸。 吸入后

马上就医。

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 皮肤接触后

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。

摄入后 切勿给失去知觉者喂食任何东西。用水漱口。饮用一或两杯水。请教

医生。

主要的症状和影响,包括 吞咽有害。吸入有害。造成严重眼损伤。

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。

5. 消防措施

合适的灭火剂 由物质本身或其燃烧产 周围环境着火时,可使用任何可得到的灭火剂进行灭火。

不可燃。在发生火灾时可能释放:铜的氧化物。

物、烟气产生的特殊危险

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。

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

第3页共6页 依据 GHS 第十修订版编写 氧化亚铜

物质释放到环境中。

清洁/收集措施 个人防护:适用于该物质空气中浓度的颗粒物过滤呼吸器。将泄漏物

清扫进有盖的容器中。适当情况下,首先润湿防止扬尘。小心收集残

余物中。然后按照当地规定储存和处置。

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。

避免吸入粉尘/烟/气体/烟雾/蒸汽/喷雾。

防止爆炸和火灾的信息 远离热源,火源,火花,或明火。避免与铝粉接触。

存储

存放在干燥、通风良好的库房内。 对储藏室和容器的要求

使用前保持容器密闭。防止与空气接触变成氧化铜而降低使用价值。

ACGIH

关于储藏在普通存储设施 避免与如氧化剂、强酸、强碱及食用物品共贮混运。

中的信息

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

ACGIH

暴露限值

成分	CAS 号	阈限值-时 间加权平 均浓度	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
氧化亚铜	1317-39-1	N.E.	N.E.	1 mg/m³	N.E.
铜铜	7440-50-8	1 mg/m ³	N.E.	1 mg/m³	N.E.
减少接触的工程控制方法	采用局部排气设	と 备或者其他的	的工程控制指	昔施来保持空 ^を	「水平低于推
	荐暴露限值。摄	是供安全淋浴和	和洗眼设施。		
一般保护和卫生措施	不要让该物质与	方皮肤、衣物、	、眼睛接触。	依据良好的口	二业卫生和安
	全条例操作。在	E休息和一天	工作结束前要	要洗手。	
个人防护用品	化学安全眼镜、	手套、工作是	服和防护面罩	是 。	
呼吸设备	当工人在高浓度	度的环境下工作	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	卢腐蚀的手套。)		
眼睛/面部保护	使用带侧罩或安	全眼镜的护	目镜作为工力	人长期暴露的机	1械屏蔽。
身体保护	全套防化学试剂	J工作服,防护	户设备的类型	型必须根据特定	三工作场所中
	的危险物的浓度	E和含量来选 技	泽。		

注:1. N.E. 未建立。

9.物理和化学特性

无定型粉末 物理状态 颜色 砖红色

氧化亚铜

气味 无数据资料 熔点/凝固点 **1232** ℃

沸点或初始沸点和沸程 1800 ℃ (分解)

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 无数据资料

分解温度 无数据资料 无数据资料 pH 值 无数据资料 运动粘度 溶解性 不溶于水 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(水 6.0

=1

相对蒸气密度(空气=1) 无数据资料 无数据资料 颗粒特征

10. 稳定性和反应活性

与铝粉发生反应,有着火和爆炸的危险。 反应性

化学稳定性 在要求的贮存条件下稳定。 不会发生危险聚合反应。 有害反应的可能性

需避开的条件(如:静电 暴露在空气中。不相容的物质。暴露在潮湿的空气或水中。

放电,震动等)

氧化剂、强酸、强碱。 不相容的物质

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。

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

氧化亚铜(CAS 1317-39-1) LD50(口服,大鼠): 500 mg/kg

LC50 (吸入, 大鼠): 3.34 mg/l (4 h) LD50(皮肤, 兔子): >2000 mg/kg

皮肤腐蚀/刺激 未分类

严重眼损伤/刺激 造成严重眼损伤。

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 未分类 生殖毒性 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 该物质刺激眼睛和呼吸道。吸入烟雾,可能导致金属烟热。食入 对肾脏和肝脏产生影响。影响可能推迟显现。反复或长期与皮肤

接触,可能导致皮炎。

20 ℃时蒸发可忽略不计,但扩散时可较快达到空气中颗粒物有

12. 生态学信息

生态毒性

水生毒性 氧化亚铜 (CAS 1317-39-1)

测试 & 物种

96 Hr LC50 鱼: 0.075 mg/l 48 Hr EC50 溞类: 0.042 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并具长期持续影响。

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(氧化亚铜)

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 与 TDG 的分类相同

海洋污染物(是/否):是

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。

第 6 页 共 6 页 依据 GHS 第十修订版编写

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 B4, D2B(铜)

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

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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

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