

物质安全资料表(MSDS)

Material safety information sheet (MSDS)

一. 物品与公司信息

1. Goods and company information

物品名称: **铜镀层 Copper**

Article name: **Copper**

化学品英文名称: **cuprous cyanide**

English name chemicals: **cuprous cyanide**

公司名称: 余姚市爱迪升电镀科技有限公司

Company name: **yuyao aidisheng electroplating technology co., LTD**

公司制造地址: 宁波市余姚市临山镇镇北工业区沧海路 7 号

Manufacturing address: **yuyao xiaocao e town binhai industrial park**

联系人: 姚建军

Contact: **yao jianjun**

联系电话: **0574-58121212**

传真: **0574-62019555**

Contact number: **0574-58121212** fax: **0574-62019555**

二. 物品的成分/组成信息

2. Information about the composition of the item

物质纯度: 纯化学品物质

Material purity: **pure chemical substance**

物品名称: **铜镀层 Copper** CAS NO: **7440-50-8**

Article name: **CopperCopper** CAS NO: **7440-50-8**

其他毒害物质: N/A

Other toxic substances: **N/A**

三. 危害性资料

3. Hazardous data

侵入途径: 吸入、食入

健康危害: 动物吸入铜的粉尘和烟雾, 可引起呼吸道刺激症状, 发生支气管炎或支气管肺炎, 甚至肺水肿。长期接触铜尘的工人常发生接触性皮炎和鼻眼的刺激症状, 引起烟痛、鼻塞、鼻炎、咳嗽等症状。铜熔炼工人可发生铜铸造热。长期吸入尚可引起肺部纤维组织增生。铜的毒性较小, 但铜过剩可引起中毒。铜盐的毒性以 CuAc_2 和 CuSO_4 较大, 经口服即使微量也会引起急性中毒, 发生流涎、恶心、呕吐、阵发性腹痛, 严重者可有头痛、心跳迟缓、呼吸困难甚至虚脱, 也可引起中枢神经系统的损害。

环境危害: **None**

危害类别: **None**

物质性及化学性危害：本品不燃，剧毒，具强刺激性

Invasion route: inhalation, ingestion

Health hazards: inhalation of copper dust and smoke in animals can cause respiratory irritation symptoms, bronchitis or bronchopneumonia, and even pulmonary edema. The worker that contacts copper dust for a long time often produces contact sex dermatitis and the irritant symptom of nose eye, cause smoke painful, snuffle, rhinitis, cough to wait for a symptom. Copper smelting workers can generate copper casting heat. Long - term inhalation can cause lung fibrous tissue hyperplasia. Copper is less toxic, but excessive copper can cause poisoning. CuAc2 and CuSO4 are bigger with CuAc2 and CuSO4 toxicity, via oral administration even if trace also can cause acute poisoning, produce salivation, nausea, vomiting, paroxysmal abdominal pain, serious person can have a headache, heartbeat is slow, breath difficulty even collapse, also can cause the damage of central nervous system.

Environmental hazards: None

Hazard category: None

Physical and chemical hazards: this product is non-combustible, highly toxic, with strong stimulation

四. 急救措施

4.Four. First aid measures

吸入：迅速脱离现场至空气新鲜处，立即进行人工呼吸（勿口对口）和胸外科心脏按压术，给吸入亚硝酸异戊酯，就医。

食入：误服者温水立即漱口，用 1：5000 高锰酸钾或 5% 硫代硫酸钠溶液洗胃，就医。

皮肤接触：脱去受污染的衣物，用流动清水清洗 15 分钟，就医。

眼睛接触：立即翻开上下眼睑，用流动清水或生理盐水冲洗至少 15 分钟，就医。

Inhalation: leave the scene quickly to the fresh air, immediately perform artificial respiration (not mouth to mouth) and chest surgery cardiac compression, inhalation of isophosphate nitrite, see a doctor.

Ingestion: gargle immediately with warm water, wash stomach with 1:500 potassium permanganate or 5% sodium thiosulfate solution, and seek medical advice.

Skin contact: remove contaminated clothing and wash with running water for 15 minutes. Seek medical advice.

Eye contact: open upper and lower eyelids immediately, rinse with flowing water or saline for at least 15 minutes, seek medical advice.

五. 灭火措施

5. Five. Fire extinguishing measures

不燃：受高热或与酸接触会产生剧毒的氰化物气体。与硝酸盐、亚硝酸盐、氯酸盐反应剧烈，有发生爆炸的危险。遇酸或裸露空气中能吸收水分和二氧化碳分解出剧毒的氰化氢气体

有害燃烧产物：氰化氢、氧化氮

灭火方法：发生火灾时尽量抢救商品，防止包装破损，引起环境污染干粉、砂土，在上风向灭火禁止用水和二氧化碳、酸碱灭火剂灭火

Incombustible: highly toxic cyanide gas produced by high heat or in contact with acid. With nitrate, nitrite, chlorate reaction is violent, there is a risk of explosion. Acid or exposed air can absorb water

and carbon dioxide decomposition of highly toxic hydrogen cyanide gas

Harmful combustion products: hydrogen cyanide, nitrogen oxide

Fire fighting method: try to rescue the goods in case of fire, prevent package damage, causing environmental pollution dry powder, sand, in the upwind fire extinguishing prohibited water and carbon dioxide, acid and alkali extinguishing agent fire extinguishing

六. 防护措施

6.Protective measures

一般不需特殊防护，但需防止烟尘危害。

环境安全预防措施：隔离泄露污染区，周围设警告标志，切断水源。应急处理人员戴好防毒面具，穿一般消防防护服。

避免烟尘，使用无火花工具收集于干燥洁净有盖的容器中，转移回收。当水体受到污染时，可采用加入纯碱中和，使铜以碱式碳酸铜形式沉淀而从水中转入污泥中，而污泥再做进一步的无害化处理。对于受铜污染的土壤可采取排土、土层改良、深耕、施加石灰质矿物及磷酸钙等措施。

Generally do not need special protection, but need to prevent smoke hazards.

Environmental safety precautions:

Isolate the contaminated area, set warning signs around it and cut off the water supply.

Emergency personnel wear gas masks and general fire protection suits.

Avoid dust, collect in dry clean covered container with spark free tool, transfer and recycle.

When water body is polluted, can be used to add soda ash neutralization, so that copper in the form of alkaline copper carbonate precipitation from the water into the sludge, and the sludge to do further harmless treatment. For the soil contaminated by copper, measures such as soil drainage, soil improvement, deep ploughing, calcareous mineral and calcium phosphate can be taken.

七. 装卸和储存

7.Seven. Handling and storage

装卸：在通风良好的区域进行。

推挤设备和程序：关于个人安全，参见第八项。

遵守产品标签陈述的防范规定和工业安全规章。

任何情况下，必须回收散落在作业区内的产品。

禁止设备和禁止程序：禁止在预备用于装卸的作业区内吸烟和饮食。

储存：存放在干燥、通风良好的区域，储存容器密闭良好。

远离食物和饮水（包括提供给动物的）。

必须在下列条件下储存：储存间只有授权人才能进入，无酸存在

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carbon dioxide, acid and alkali extinguishing agent fire extinguishing

八. 技术措施:

8.Eight. Technical measures:

保证足够的通风, 如果可能在工作地点安装风扇进行适当的换风。

定期检查空气情况。

安全呼吸器具防护: 带头罩型呼吸面罩, 紧急事态时佩戴自给式呼吸器。

手的防护: 戴橡胶手套操作。

眼睛和面部防护: 呼吸系统防护中已做防护

身体防护: 穿连体式胶布防毒衣

皮肤防护: 更多信息请参考第十一项——毒物学信息

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九. 物理化学性质

9.Nine. Physicochemical properties

物质状态: 固体

颜色: 白色单斜结晶粉末或淡绿色粉末

密度: 8.92g/cm³

沸点: 无资料

分子量: 89.56

熔点: 473℃

气味: 无气味

水中溶解度: 不溶于水, 易溶于浓盐酸

State of matter: solid

Colour: metal with a red sheen

Density: 8.92 g/cm after

Molecular weight: 63.55

Melting point: 1083 °C

Odor: no odor

Solubility in water: insoluble in water

十. 稳定性和反应活性

10.Ten. Stability and reactivity

安全性: 特殊状况下可能之危害反应: None

应避免之状况: None

应避免之物质: None

危害分解物: None

禁配物: 强氧化剂、酸类

Safety: possible hazard response in special cases: None

Situations to avoid: None

Substances to avoid: None

Hazardous decomposition: None

Forbidden compounds: strong oxidant, acid

十一. 毒化学信息

11. Toxic chemical information

急毒性: None

局部效应: None

致敏感性: None

慢毒性或长期毒性: None

特殊效应: None

Acute toxicity: None

Local effect: None

Sensitivity: None

Chronic or long-term toxicity: None

Special effect: None

十二. 生态学信息

12. Twelve. Ecological information

可能之环境影响: 该物质对环境可能有危害, 对水体应给予特别注意。

Possible environmental effects: the substance may be hazardous to the environment and water bodies should be given special attention.

十三. 废品处置 DISPOSAL CONSIDERATIONS

13. Waste DISPOSAL DISPOSAL CONSIDERATIONS

若可能, 回收使用。若回收有困难, 处置前应参阅国家和地方有关法规。与硫酸亚铁反应, 生成相对无毒的氰化铁或与次氯酸钠。次氯酸钙反应生成低毒的碳酸盐。处理后用安全掩埋法处置。

Recycle if possible. If there are difficulties in recycling, please refer to the relevant national and local regulations before disposal. Reacts with ferrous sulfate to form relatively non-toxic iron cyanide or sodium hypochlorite. Calcium hypochlorite reacts to form low - toxicity carbonate. Safe burial method is used after treatment.

十四. 运输信息 TRANSPORT INFORMATION

14. TRANSPORT INFORMATION

包装类别: O51

起运时包装要完整, 装载应稳妥。运输过程中要确保容器不泄露、不倒塌、不坠落、不损坏。严禁与氧化剂、酸类、食品添加剂及食品等混装混运。运输途中应防爆晒、雨淋、防高温。公路运输时要按照规定路线行驶, 禁止在居民区和人口稠密区停留。

Package type: O51

The packing should be complete and the loading should be safe. Ensure that the container does not leak, collapse, fall or damage during transportation. It is strictly prohibited to mix with oxidizer, acid, food additive and food. On the way of transportation should be explosion-proof sai, rain, prevent high temperature. Road transport should be in accordance with the prescribed route, prohibit residential areas and densely populated areas stay.

十五. 法规信息

15. Regulatory information

化学危险物品安全管理条例(1987年2月17日国务院发布), 化学危险物品安全管理条例实施细则(化劳发【1992】677号), 工作场所安全使用化学品规定(【1996】劳部发426号)等法规, 针对化学危险品的安全使用、生产、储存、运输、装卸等方面均作了相应规定; 常用危险化学品的分类及标准(GB 13690-92)将该物质划为第6.1类毒害品; 剧毒物品分级、分类与品名编号(GA 57-93)中, 该物质属第一类A极无机剧毒品。车间空气中铜尘(烟)卫生标准(GB 11531-89), 规定了车间空气中该物质的最高容许浓度及检测方法。

危险物及有害物通识规则

特殊规定: 符合欧盟 ROHS 标准

(chemical dangerous goods safety management regulations promulgated by the state council on February 17, 1987), the chemical dangerous goods safety management regulations, implementing rules (lowe hair [1992] no. 677), using chemicals workplace safety regulation (no. 426 [1996] labor department is sent) such as laws and regulations, for the safe use of hazardous chemicals, production, storage, transportation, loading and unloading and so on all has made the corresponding provisions; The classification and standard of commonly used hazardous chemicals (GB 13690-92) classify the substances as toxic substances in class 6.1. In the classification, classification and item number (GA 57-93) of highly toxic substances, this substance belongs to category I A very inorganic drama drugs. The hygienic standard for copper dust (smoke) in workshop air (GB 11531-89) specifies the maximum allowable concentration of the substance in workshop air and the test method.

General knowledge of hazardous and hazardous materials

Special provisions: in accordance with the European Union ROHS standards.

十六. 其他信息

16. Other information

由于我们不知道使用者的工作条件，故本资料是根据我们目前所知己的国家相关法律法规规定的。
本产品不可在项目 1 规定以外的场合使用，不可在未取得安全资料时使用。

任何时候，使用者在使用中应采取必要的措施遵守当地法规。

本资料只作为一种描述性的信息而不作为产品性质说明

Since we do not know the working conditions of the users, this information is based on the relevant laws of the countries we are currently close friends with.

This product shall not be used in any place other than specified in item 1, and shall not be used in the absence of safety information.

At all times, the user shall take necessary measures to comply with local regulations in use.

This information is intended to be descriptive and not to describe the nature of the product