

# 铜陵有色股份线材有限公司

## 磷铜球物质安全资料/MSDS

### 一. 物质成份表/COMPOSITION/INFORMATION ON INGREDIENTS

分析元素	Cu	P	Sn	Pb	Zn	Ni	Fe	Sb	Te
含量 (wt%)	≥ 99.900	>0.04 <0.065	≤0.001	≤0.002	≤0.001	≤0.001	≤0.003	≤0.001	≤0.003

### 二. 有害成分/HAZARDOUS INGREDIENTS

危害物质 Hazardous Ingredient	百分含量 Weight Content (w/w%)	危规号 CAS NO.
有毒金属元素 Hazardous Metals	Pb<1000ppm, Cd<5ppm, Hg<2ppm, Cr <sup>6+</sup> <2ppm	SHAEC1220548401 SHAEC1220548402

### 三. 危险性概述/HAZARDS IDENTIFICATION

<b>紧急措施</b> Emergency overview	: 避免反复或长期接触皮肤, 在通风良好环境作业, 使用后请彻底冲洗干净; 在使用过程中为高温作业, 避免人体接触, 穿好防护服。 : Avoid prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. Wash thorough after handling. Being used under high temperature, avoiding contacted directly by molten metal, and should be protected by exposure suit.
<b>侵入途径</b> Routes of entry:	: 1.皮肤接触 2.吸入 3.食入 : 1. Skin contact 2.Inhalation 3.Ingestion
<b>健康危害</b> Potential acute health effects	: 皮肤: 皮肤接触可能引起皮肤的腐蚀、剥落或起水泡。 : Skin : this product may be hazardous in case of skin contact. Non-corrosive for skin. Skin inflammation is characterized by

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	itching. Scaling or occasionally, blistering. : 吸入: 吸入产品烟气可能危害健康。 : Inhalation: Fumes produced by this product may be hazardous in case of inhalation. : 食入: 食入可能危害健康。 : Ingestion: this product may be hazardous in case of ingestion.
<b>潜在的健康危害</b> <b>Potential chronic health effects</b>	: 产生致癌物: 不适用 : Carcinogenic effects: : Not available : 产生诱导有机突变体: 不适用 : Mutation effects: Not available : 产生致畸形物: 不适用 : Teratogenic effects: Not available
<b>毒物学资料</b> <b>See toxicological information</b>	: 第十一条 : (Section 11)

## 四. 急救措施/FIRST AID MEASURES

<b>皮肤接触</b> <b>Skin contact</b>	: 熔融金属不慎触及皮肤时, 立刻用清水清洗患部, 并涂抹烫伤药品, 送医治疗。 : For skin contact, immediately flush skin water and lay on medicine for scald. Get medical attention.
<b>吸入</b> <b>Inhalation</b>	: 不慎吸入时, 迅速脱离现场转移至空气新鲜处。 : If inhaled, remove to fresh air.
<b>食入</b> <b>Ingestion</b>	: 误服者立即漱口, 饮牛奶或蛋清。就医。 : Gargle with water, drink milk or egg white. Get medical attention.

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<b>健康危害效应</b>	: 目前尚无正式医学报道。
<b>Medical conditions</b>	: None known.
<b>aggravated by exposure</b>	
<b>对医师之提示</b>	: 不适用。
<b>Notes to physician</b>	: Not available.

## 五. 防火措施/ FIRE FIGHTING MEASURES

<b>易燃性/ Flammability</b>	不适用/Not available
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## 六. 泄露应急处理(熔融状态) / ACCIDENTAL RELEASE MEASURES (MOLTEN STATE)

<b>少量泄漏</b>	: 待其冷却凝固后,放置于处理箱内。
<b>Small spill and leak</b>	: After solidification and cooling, place in an appropriate container.
<b>大量泄漏</b>	: 隔离火源。在无人身危险时, 关闭泄漏, 用干土、沙、或其它不易燃物阻挡, 不可接触泄漏物品, 禁止倒入下水道、地下室或某狭窄处。
<b>Large spill and leak</b>	: Keep away from sources of ignition. Stop leak if without risk. Block off with dry earth. Sand or other non-combustible material. Do not touch spilled material. Prevent entry in to sewers, basements or confined areas; dike if needed.

## 七. 操作处置与贮存/HANDLING AND STORAGE

<b>操作</b>	: 请穿戴防护工具, 配置良好的通风设备, 工作时, 请勿进食、饮水, 避免接触皮肤、眼睛。工作后, 要用肥皂及清水彻底清洗干净。
<b>Handling</b>	: Wear suitable protective clothing. Use in a well ventilated area. When using do not eat, drink. Avoid contact with skin and eyes. After

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	handling, always wash hands thoroughly with soap and water.
<b>贮存</b>	: 分离贮存于特定地方, 保持库房阴凉通风。
<b>Storage</b>	: Store in a segregated and approved area. keep container in a cool, well-ventilated area.

## 八. 接触控制, 个体防护/ EXPOSURE CONTROLS, PERSONAL PROTECTION

<b>工程控制</b> <b>Engineering controls</b>	: 配置通风设备或其他办法来控制空气中蒸汽的浓度低于标准值, 保证工作地点的附近配有烫伤膏、洗眼液和淋浴设备。 : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that medicine for scald and safety showers are proximal to the workstation location.
<b>呼吸道预防措施</b> <b>Respiratory protection</b>	: 当通风设施不能有效降低作业区的烟气浓度时, 应使用符合标准的口罩或防毒面具。 : When ventilation is not sufficient to remove from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.
<b>皮肤防护措施</b> <b>Skin protection</b>	: 使用高温操作手套可有效防止皮肤接触。 : Gloves for high temperature operation are necessary to avoid skin contact.
<b>眼睛防护措施</b> <b>Eye protection</b>	: 戴安全防护眼镜。 : Wear goggles.
<b>卫生注意事项</b> <b>Hygienic work practices</b>	: 穿戴防护工具, 作业完毕请立即洗手。 : Wear protective equipment and wash thoroughly after handling.
<b>其它防护措施</b>	: 应选用不渗透材料作为防护服, 焊接时避免吸入烟气, 避免接触

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**Other protective** 到眼睛，皮肤。  
: An impermeable apron is advised to avoid contact through clothing.  
Avoid breathing smoke/fumes generated during soldering. Avoid contact with eyes and skin.

## 九. 物理化学特性/PHYSICAL AND CHEMICAL PROPERTIES

物理状态/Physical State (20℃)	固体 /Solid
比重/Specific Gravity (20℃)	8.92g/cc
熔点/Melting Point (101.3kpa)	1083℃

## 十. 化学反应特性 / REACTIVITY DATA

<b>安定性</b>	: 安定
<b>Stability</b>	: Stable
<b>应避免之状况</b>	: 严禁阳光直射或高温。
<b>Conditions to avoid</b>	: Avoid direct sunlight and extensive heat.
<b>不相容物</b>	: 酸或强碱溶液、水分、油脂、无机物。
<b>Incompatibility</b>	: Acid or alkaline solutions, water, grease, inorganic materials.
<b>危险分解物</b>	: 不适用
<b>Hazardous</b>	: Not available.
<b>有害之聚合物</b>	: 无。
<b>Hazardous polymer</b>	: Will not occur.

## 十一. 毒性资料/TOXICOLOGICAL INFORMATION

<b>动物毒性</b>	: 不适用
<b>Toxicity to animals</b>	: Not available.

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人体慢性毒性	: 可能造成皮肤、眼睛、中枢神经系统的损害。
<b>Chronic effects on humans</b>	: Causes damage to the following organs: skin, eyes, central nervous system(CNS).
人体的其它毒性	: 吸入产品烟气可能有害健康。
<b>Other toxic effects on humans</b>	: Fumes produced by this product may be hazardous in case of inhalation. : 皮肤接触, 食入可能有害健康。 : This product may be hazardous in case of skin contact , of ingestion.

## 十二. 生态学资料/ECOLOGICAL INFORMATION

生态毒性	: 不适用
<b>Ecological</b>	: Not available.
生物降解性	: 不适用
<b>Biodegradable/OECD</b>	: Not available
生物积累性	: 不适用
<b>Toxicity of the products of biodegradation</b>	: Not available

## 十三. 废弃处置/DISPOSAL CONSIDERATIONS

废渣处理方法	: 请交由有执照之金属废物处理公司处理。
<b>Waste disposal methods</b>	: Dispose in accordance with federal , State and local regulations.

## 十四. 运输信息/TRANSPORT INFORMATION

包装标志	: 重物
<b>Packing symbols</b>	: Heavy

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<b>包装方法</b>	: 纸盒或塑料桶包装
<b>Packing method</b>	: Paper box or plastic bucket
<b>运输注意事项</b>	: 避免阳光直射和其它热源或火源. 小心装卸
<b>Transport regulation</b>	: Avoid direct sunlight and other sources of ignition or flame. Be careful in loading.

## 十五. 法规信息/REGULATORY INFORMATION

<b>适用法规</b>	: 重物通识规则
<b>Statute large</b>	: The heavy substance general regulation.

注：本公司企业标准参照美国磷铜球标准 C19220，制作人：蒋英。