

物質安全資料表

MATERIAL SAFETY DATA SHEET

一、製造商或供應商資料：

物品中英文名稱： 插座 AC INLET
物品編號： K241
製造商或供應商名稱： 夏林電子有限公司
製造商或供應商地址： 台南市北區海安路三段 135 巷 45 號
緊急聯絡電話/傳真電話： 886-6-2591103

Manufacturer/Supplier Information:

Item name: 插座 AC INLET
Item No: K241
Manufacturer/Supplier: SHALLIN ELECTRONICS CO., LTD.
Address: No. 45, Lane 135, Sec. 3 Hai An Rd., Tainan 704018 Taiwan R.O.C.
Emergency Contact/Fax: 886-6-2591103

二、成份辨識資料：

物質：
1、五金件：
中英文名稱：鍍錫黃銅 BRONZE TIN PLATED
插針(3.68g)成份：Cu---65.43% 7440-50-8; Zn---34.57% 7440-66-6;
2、塑膠本體：
塑膠本體（6.68g）成份：Polybutylene Terephthalate (PBT)---65% 26062-94-2 Flame retardants---9% 68928-70-1; Antimony trioxide---2% 1309-64-4; Glass Fiber---21 % 65997-17-3; Additives---3%
3、在 AC SOCKET 中的比例：五金件 35.52% 塑膠件 64.48%

Material Identification Data:

Materials：
1、Metal Parts:
Name: BRONZE TIN PLATED
AC pin(3.68g) : Cu---65.43% 7440-50-8; Zn---34.57% 7440-66-6;
2、Molding part：
Plastic（6.68g）：Polybutylene Terephthalate (PBT)---65% 26062-94-2 Flame retardants---9% 68928-70-1; Antimony trioxide---2% 1309-64-4; Glass Fiber---21 % 65997-17-3; Additives---3%

3、AC SOCKET composition: metal 35.52% plastic 64.48%

三、危害辨識資料：

1、鍍錫 黃銅：	a、急性可能造成眼、鼻、喉、皮膚之刺激。
	b、吞食一般無毒，但大量會因刺激而造成腸胃不適。
	c、有皮膚病及慢性病者易受危害。
	d、動物實驗中會增加肌肉腫之機會。
	e、環境影響：污染地下水。
	f、物理性及化學性危害：鉛中毒。
	g、特殊危害：無
2、塑膠本體：	a、急性可能造成眼、鼻、喉、皮膚之刺激。
	b、吞食一般無毒，但大量會因刺激而造成腸胃不適。
	c、有皮膚病及氣管炎病者易受危害。
	d、環境影響：燃燒時嚴重污染空氣。

Hazard Identification Data:：

1、Tin-plated Brass:	a. Acute: May cause eye, nose, throat, or skin irritation.
b. Ingestion:	Generally non-toxic in small amounts; large quantities may cause gastrointestinal discomfort due to irritation.
c. Susceptibility:	Individuals with skin conditions or chronic diseases are more vulnerable.
d. Animal studies suggest potential increased risk of muscle tumors.	
e. Environmental impact:	May contaminate groundwater.
f. Physical/chemical hazards:	Risk of lead poisoning.
g. Special hazards:	None identified.
2、Molding part:	a. Acute: May cause eye, nose, throat, or skin irritation.
b. Ingestion:	Generally non-toxic; large amounts may cause gastrointestinal discomfort
c. Susceptibility:	Individuals with skin conditions or bronchitis are more vulnerable.
d. Environmental impact:	Severe air pollution if burned.

四、急救措施

急救措施：	1、吸入時，將患者移至空氣新鮮處，若呼吸停止，施以人工急救，並即送醫
	2、皮膚接觸時，立即用大量肥皂水清洗，滲入皮膚立即脫掉衣服予以清洗，如仍有刺激感立即送醫
	3、接觸眼睛時，即刻用大量清水沖洗，並即送醫
	4、食入時，若意志清醒即刻喝下大量清水，並即催吐，若意志不清不可催吐，立即送醫
對急救人員之防護：	無特別要求
最重要症狀及危害效應：	鉛中毒，眼睛刺痛等

First Aid Measures:

First Aid Measures:

1、Inhalation: Move the patient to fresh air. If breathing stops, administer artificial respiration and seek immediate medical assistance.
2、Skin Contact: Wash immediately with plenty of soap and water. Remove contaminated clothing if absorbed. Seek medical attention if irritation persists.
3、Eye Contact: Rinse immediately with copious amounts of water and seek medical assistance.
4、Ingestion: If conscious, drink plenty of water and induce vomiting. If unconscious, do not induce vomiting and seek immediate medical assistance.
Precautions for First Aid Personnel: No special requirements.
Most Important Symptoms and Effects: Lead poisoning, eye irritation, etc.

五、滅火措施：

1、鍍錫 黃銅滅火材料為水
特殊滅火程序，此物不燃但為粉末則為可燃
2、塑膠本體： 1)、適用滅火劑為二氧化碳、乾粉土或砂、泡沫滅火器
2)、滅火時可能遭遇之特殊危害，火或過熱會產生毒氣煙
3)、特殊滅火程序，戴上呼吸護具及防護衣
4)、消防隊人員，戴上呼吸護具及防護衣

Firefighting Measures:

1、Tinned Brass: The fire extinguishing material is water.
Special firefighting procedures: This material is noncombustible, but in powder form, it is combustible.
2、Molding part：
1). Suitable extinguishing agents: carbon dioxide, dry powder, soil or sand, foam extinguisher.
2). Special hazards during firefighting: Fire or overheating may produce toxic gases and smoke.
3). Special firefighting procedures: Wear respiratory protection and protective clothing.
Firefighters: Wear respiratory protection and protective clothing.

六、泄漏及廢棄處理：

1、鍍錫 黃銅： 成品為固體，可回收再利用，無廢棄物
2、塑膠本體： 回收後給原料供應商處理.

Leakage and Waste Disposal:

1. Tinned Brass: The finished product is solid and can be recycled for reuse, with no waste generated.
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2. Molding part: Return to the raw material supplier for recycling.

七、安全處置與儲藏方法：

1、鍍錫 黃銅
A、通風設備：1、局部排風設備。 2、整體換氣設備。
B、操作與儲存注意：1、作業時應避免粉塵。 2、儲存于適當有標示之容器置于陰涼、乾燥、通風良好處。 3、遠離不相容物。
2、塑膠本體：
A、通風設備：1、局部排風設備。 2、整體換氣設備。
B、操作與儲存注意：1、作業時應避免粉塵。 2、儲存于適當有標示之容器置于陰涼、乾燥、通風良好處。 3、遠離不相容物。 4、防火

Safety Disposal and Storage Methods:

1、Tin-plated Brass
A、Ventilation：1、Local exhaust ventilation. 2、General ventilation equipment.
B、Handling & Storage:： 1. Avoid dust during operation. 2. Store in appropriately labeled containers in a cool, dry, well-ventilated area. 3、Keep away from incompatible substances.
2、Molding part：
A、Ventilation:：1、Local exhaust ventilation. 2、General ventilation equipment.
B、Handling & Storage:：1、Avoid dust during operation. 2、Store in appropriately labeled containers in a cool, dry, well-ventilated area.
3、Keep away from incompatible substances.
4、Fire prevention measures.

八、暴露預防措施：

1、鍍錫 黃銅
A、通風設備：1、局部排風設備。 2、整體換氣設備。
B、操作與儲存注意：1、作業時應避免粉塵。 2、儲存于適當有標示之容器置于陰涼、乾燥、通風良好處。 3、遠離不相容物。
2、塑膠本體：
A、通風設備：1、局部排風設備。

2、整體換氣設備.	
B、操作與儲存注意：	1、作業時應避免粉塵。 2、儲存于適當有標示之容器置于陰涼、乾燥、通風良好處。 3、遠離不相容物。 4、防火
C、個人衛生：	1、工作後之污染衣物立即脫下，並告知洗衣人員其危險性 2、工作場所嚴禁吸煙及飲食 3、處理此物後徹底洗手 4、保持工作場所清潔 5、手部：保護手套 6、工作前、吃飯前使用肥皂水及清水，清潔手及身體

Exposure Prevention Measures:

1、Tin-plated Brass	
A、Ventilation：	1、Local exhaust equipment. 2、General ventilation equipment.
B、Handling & Storage：	1. Avoid dust during operation. 2. Store in properly labeled containers in a cool, dry, well-ventilated area. 3. Keep away from incompatible substances.
2、Molding part:	
A、Ventilation：	1、Local exhaust equipment. 2、General ventilation equipment.
B、Handling & Storage：	1、Avoid dust during operation. 2、Store in properly labeled containers in a cool, dry, well-ventilated area. 3、Keep away from incompatible substances. 4、Fire prevention.
C、Personal Hygien：	1、Immediately remove contaminated work clothing after use and inform laundry personnel of its hazards.
2、No smoking or eating in the work area.	
3、Wash hands thoroughly after handling this material.	
4、Maintain cleanliness in the workplace.	
5、Hand Protection: Wear protective gloves.	
6、Wash hands and body with soap and water before work and before meals.	

九、物理性及化學特征：

1、鍍錫 黃銅：無味,無嗅,導電良好	
A:銅 a、物質狀態：固體	
b、沸點：2325℃	
c、熔點：1083℃	
B:錫 a、物質狀態：固體	C: 鎳 a、物質狀態：固體
b、分解溫度：500℃	b、分解溫度：500℃
2、塑膠本體：a、白色、黑色或彩色,無味,無嗅,.	

b、熱變形溫度 130~160℃左右
c、PBT 熔化溫度 225℃
d、耐有機溶劑性好，無應力開裂之慮，耐老化
e、電絕緣性良好
f、在高壓、高濕環境下使用需謹慎

Physical and Chemical Characteristics:

1、Tin-plated Brass: Odorless, good electrical conductivity
A:Copper a、Physical state: Solid
b、Boiling point: 2325℃
c、Melting point:1083℃
B:Tin a、Physical state: Solid C: Nickel a、Physical state: Solid
b、Decomposition temperature: 500℃ b、Decomposition temperature: 500℃
2、Molding part : a、White, black, or colored, odorless
b、Heat deflection temperature ~130-160℃
c、PBT melting temperature: 225℃
d、Good resistance to organic solvents, no stress cracking, aging resistant
e、Good electrical insulation
f、Caution required for use in high-pressure, high-humidity environments

十、安定性及反應性：

1、鍍錫 黃銅:	a、安定性：安定
	b、特殊情況下可能之危害：鉛中毒
	c、應避免之狀況：火源陽光直射，水氣
	d、應避免之物質：強氧化劑,強酸等
	e、危害分解物：金屬粉塵，煙煙
2、塑膠本體：	a、安定性：安定
	b、易于阻燃
	c、危害物：燃燒中的分解物(如 co 氣體),煙塵.
	d、應避免之狀況：陽光直射，水氣
	e、應避免之物質：域性溶液，熱水,等

Stability and Reactivity:

1、Tin-plated Brass:	a、Stability: Stable
	b、Possible hazards under special conditions: Lead poisoning
	c、Conditions to avoid: Open flame, direct sunlight, moisture
	d、Substances to avoid: Strong oxidizers, strong acids, etc.
	e、Hazardous decomposition products: Metal dust, smoke
2、Molding part :	a、Stability: Stable
	b、Flammability: Easy to flame retardant
	c、Hazardous substances: Decomposition products (e.g., CO gas) during combustion, smoke

d、Conditions to avoid: Direct sunlight, moisture
e、Substances to avoid: Alkaline solutions, hot water, etc.

十一、毒性資料

急毒性：無
局部效應：無
致敏感性：無
慢毒性或長期毒性：重金屬毒性
特列效應：無

Toxicological Data

Acute Toxicity: None
Local Effects: None
Sensitization: None
Chronic or Long-term Toxicity: Heavy metal toxicity
Specific Effects: None

十二、生態資料

可能之環境影響/環境流布：無

Ecological Data

Potential Environmental Impact/Environmental Distribution: None

十三、廢棄處置方法

塑膠件：視為工業廢棄物由合格焚化爐焚化處理
五金件：由專業廠商回收處理

Waste Disposal Methods

Plastic Parts: Treated as industrial waste and incinerated in qualified incinerators.
Metal Parts: Recycled by professional manufacturers.

十四、運送資料

國際運送規定：無
聯合國編號：無
國內運送規定：無
特殊運送方法及注意事項：無

Transportation Information

International Transport Regulations: None
UN Number: None

Domestic Transport Regulations: None
Special Transport Methods and Precautions: None

十五、法規資料

適用法規：水污染防治法，空氣污染防治法，廢棄物處理法，危險物防治法

Regulatory Information

Applicable Regulations: Water Pollution Control Act, Air Pollution Control Act, Waste Disposal Act, Hazardous Substances Control Act
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十六、其它資料

製表者單位	名稱：德盈科技（深圳）有限公司
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製表日	2025/12/15

Other Information

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Date Prepared	2025/12/15