

Material Safety Data Sheet

Date of Preparation: 2009/01/09

Product Name: Tin Coated Copper Wire

A. GENERAL INFORMATION

| Trade Name Tin Coated Copper Wire for Electrical Purpose | | | |
|---|------------|---------------------------------|------------------|
| Component | CAS Number | WT % | Molecular Weight |
| Copper (Cu) | 7440-50-8 | 99.5+% | 63.55 |
| Tin (Sn) | 7440-31-5 | 0.5 - 0.3% | 118.69 |
| Address Excel Pioneer Copper Industry (Shenzhen) Co. Ltd. No. 2 Industrial Park, Lou Village, Gongming Town, Baoan District, Shenzhen, China | | | |
| Contact Robert Ma | | Phone Number (755) 2711-8322 | |

B. PHYSICAL DATA

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|---|--|---|
| Material is (at Normal Conditions): Solid | Appearance and Odor Silvery metal, odorless, various shapes | |
| Boiling Point 2562°C Melting Point 998°C | Specific Gravity (H ₂ O = 1) 8.90 | Vapor Density (Air = 1) Not Applicable |
| Solubility in Water (% by weight) Insoluble | Ph Not Applicable | Vapor Pressure (mmHg at 20°C) Not Applicable |
| Evaporation Rate Not Applicable | % Volatiles by Volume (at 20°C) Not Applicable | |

C. REACTIVITY DATA

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|---|-----------------------------------|
| Stability Stable | Conditions to Avoid None Known |
| Incompatibility (Materials to Avoid) Acetylene, chlorine, oxidizers, magnesium and halogenate. | |
| Hazardous Decomposition Products Extreme temperatures can generate metal fume. | |
| Hazardous Polymerization Will Not Occur | |

D. HAZARDOUS INGREDIENTS

| Component | CAS Number | WT % | Molecular Weight |
|-----------|------------|------|------------------|
| None | N/A | N/A | N/A |

E. FIRST AID MEASURES

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|-------------|---|
| Eyes: | Flush eyes immediately with water for at least 15 minutes. Get medical attention. |
| Skin: | Promptly wash with plenty of soap and water. |
| Inhalation: | Remove to fresh air. Get medical assistance for irritation or any other symptoms. |
| Ingestion: | If conscious, give plenty of water or milk. Induce vomiting by touch finger to back of throat. Get immediate medical attention. |

F1. HAZARDS INFORMATION: HEALTH

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|--------------------------------|---|
| Eyes | Mechanical irritation, potentially severe, can result from eye contact with this material. |
| Skin | Although not commonly associated with industrial dermatitis, mechanical irritation is possible along with skin discoloration. |
| Inhalation | Dust or fume inhalation can cause "metal Fume Fever", Headaches, cramps, pain in extremities in addition to respiratory irritation. |
| Ingestion | Ingestion of copper will irritate the gastrointestinal tract producing salivation, nausea, vomiting and gastric pain. |
| Permissible Concentration: Air | Copper: TWA = 1 mg/m ³ (dust); TWA = 0.2 mg/m ³ (fume); PEL = 1mg/m ³ (dust). Tin: TWA = 2 mg/m ³ ; PEL = 2mg/m ³ (dust). |
| Unusual Chronic Toxicity | Wilson's disease may be affected by copper exposure. |

F2. HAZARDS INFORMATION: FIRE AND EXPLOSION

| | | |
|------------------------------------|---------------------------|-------------------------------------|
| Flash Point | Auto Ignition Temperature | Flammable Limits in Air (% by Vol.) |
| None | Not Applicable | Not Applicable |
| Unusual Fire and Explosion Hazards | | |
| None known | | |

G. PRECAUTIONS/PROCEDURES

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| Fire Extinguishing Agents RECOMMENDED | Use any agent suitable for surrounding fire. |
| Fire Extinguishing Agents to AVOID | None known |
| Special Fire Fighting Precautions | Avoid breathing dusts and fumes from burning material. Use NIOSH approved breathing apparatus and full protective clothing. |
| Ventilation | Local exhaust: In packaging and unloading areas, over open processing equipment, and any other places where dusty or misty condition prevails. Natural ventilation: Adequate for other areas. |
| Normal Handling | Avoid contact with eyes, skin, or clothing. Avoid breathing dust or fume. Use good personal hygiene and housekeeping. |
| Storage | Avoid storage near acetylene, chlorine, oxidizers, magnesium, and halogenates. |
| Spill or Leak (Always Wear Personal Protective Equipment – Section H) | Promptly sweep up with minimum dusting. Collect for reuse. |
| Special: Precautions/Procedures/Label Instructions | None |

H. PERSONAL PROTECTIVE EQUIPMENT

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| Respiratory Protection |
| None needed under most conditions. If dust or fume is expected, use a NIOSH approved HEPA or fume respirator. |
| Eyes and Face |
| Safety glasses or goggles. |
| Hands, Arms and Body |
| None normally needed. Impervious gloves may be used to prevent mechanical irritation. |
| Other Clothing and Equipment |
| Eye-wash is recommended. |

I. ENVIRONMENTAL

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| Clean up of Spilled Material |
| Clean up using method which minimizes copper dust generation |
| Water Disposal Methods |
| Recycle scrap material in accordance with all local, state & federal regulations |

THIS MATERIAL SAFETY DATA SHEET IS OFFERED SOLEY FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION.

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