Material Safety Data Sheet Date of Preparation: 2009/01/09

Product Name: Polyurethane Enameled Round Copper Magnet Wire

A. GENERAL INFORMATION

Trade Name Polyurethane Enameled Round Copper Magnet Wire			
Component	CAS Number	WT %	Molecular Weight
Copper (Cu)	7440-50-8	97~98%	63.55
Polyurethane Resin (C ₁₀ H ₁₀ O ₄ N ₂)n	Confidential	2~3%	
Address Excel Pioneer Copper Industry (Shenzhen) Co. Ltd. No. 2 Industrial Park, Lou Village, Gongming Town, Baoan District, Shenzhen, China			
Contact Phone Number			

(755) 2711-8322

B. PHYSICAL DATA

Robert Ma

Material is (at Normal Conditions):	Appearance and Odor	
Solid	Yellow-red metal, odorless, in the form of round wire	
Boiling Point	Specific Gravity (H2O = 1)	Vapor Density (Air = 1)
Cu 2595 <i>°</i> C	8.64~8.74	Not Applicable
Melting Point		
Cu 1083℃		
Solubility in Water (% by weight)	Ph	Vapor Pressure (mmHg at 20 ℃)
Insoluble	Not Applicable	Not Applicable
Evaporation Rate	% Volatiles by Volume (at 20℃)	
Not Applicable	Not Applicable	

C. REACTIVITY DATA

Stability	Conditions to Avoid	
Stable	High Temperature	
Incompatibility (Materials to Avoid)		
Concentrated acids and bases. Bare conductor (Copper) should avoid contact with 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

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 aassitance 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

Eves

Mechanical irritation, potentially severe, can result from eye contact with this material.

Skir

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 Concetration: Air

Copper: TWA = 1 mg/m³ (dust); TWA = 0.2 mg/m³ (fume); PEL = 1mg/m³ (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	Resins are flammable
Unusual Fire and Explosion Hazards		
None known		

G. PRECAUTIONS/PROCEDURES

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 burining 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

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

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

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