

Section 1: Product and Supplier Identification

(Identification of the substance/mixture and of the company/undertaking)

1.1 Product Identifier

Product name : Copper & Tin Plated Copper (General – includes Enamelled)

Forms supplied : Solid articles (wire, strip, foil)

1.2 Relevant Identified Uses

We supply precision metals in strip, wire, and foil forms for professional and industrial use.

Typical uses include, but are not limited to, electrical, resistance, spring, precision, and engineering applications

Uses advised against : None identified when handled as supplied

1.3 Details of the Supplier

Premier Farnell plc

150 Armley Road, Leeds, LS12 2QQ

+44 (0) 8701 202530

Emergency telephone number

+44 1865 407333

Section 2: Hazards Identification

2.1 Classification of the Substance or Mixture

Copper & Tin Copper supplied as solid articles are not classified as hazardous under CLP / GB-CLP in their supplied form.

2.2 Label Elements

Not applicable for solid articles as supplied.

2.3 Other Hazards

Generation of airborne dust or fumes during mechanical or thermal processing

Sharp edges may cause cuts or lacerations

PBT/vPvB assessment : Not applicable for solid metallic alloys

Section 3: Composition / Information on Ingredients

3.1 Mixtures (Alloys)

Substance Name	EC Number	CAS Number	Concentration (%w/w)	Classification
Copper (Cu)	231-159-6	7440-50-8	>90	-
Tin (Sn)	231-141-8	7440-31-5	<10	-

Section 4: First Aid Measures

Inhalation : Remove to fresh air. Seek medical advice if symptoms persist.

Skin contact : Wash with soap and water. Seek medical advice if irritation or rash develops.

Eye contact : Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.

Ingestion : Unlikely due to solid form. Rinse mouth; seek medical advice if unwell.

Section 5: Firefighting Measures

Suitable extinguishing media : Use foam, dry chemical powder, carbon dioxide.

Unsuitable extinguishing media : Water on molten metal

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Copper reacts with the following substances : C₂H₂, NH₄NO₃, Bromates, Chlorates, Cl₂, ClF₃, F₂, H₂O₂ and H₂S. These substances should not be stocked together.

Specific hazards : Metal fumes and oxides may form

Protective equipment : Self-contained breathing apparatus and protective clothing

Section 6: Accidental Release Measures

Personal precautions : Use appropriate PPE

Environmental precautions : The substance is 100% solid. It is insoluble in water. It does not spread. No environmental precautions are required.

Cleaning methods : Collect mechanically; avoid raising dust

Section 7: Handling And Storage

7.1 Safe Handling

- Handle solid metal articles with care
- Avoid the generation of dust and fumes
- Be aware of sharp edges, especially for thin strip or foil

7.2 Storage Conditions

- Store in a dry, well-ventilated area
- Keep away from strong acids and oxidising agents.
- Copper reacts with the following substances: C₂H₂, NH₄NO₃, Bromates, Chlorates, Cl₂, ClF₃, F₂, H₂O₂, H₂S. These substances should not be stocked together.

7.3 Specific End Use(s)

- Industrial and professional use of Copper/Tin Plated containing metallic materials

Section 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Occupational exposure limits apply to dusts and fumes generated during processing.

Substance	TR OEL DU TWA/ZAOD (mg/m ³)	OSHA PEL 8-hours TWA (mg/m ³)	ACGIH TLV-TWA (mg/m ³)
Copper (Cu)	1 (dust)	1.0 (Dust) 0.1 (Fume)	1.0 (Dust) 0.2 (Fume)
Tin (Sn)	2.0	2.0	2.0 (metal, oxide and inorganic compounds except tin hydride)

8.2 Exposure Controls

Engineering controls : Local exhaust ventilation where dust or fumes are generated

Personal protective equipment : Safety glasses, protective gloves; RPE where required

Environmental exposure : Keep away from drains, surface and ground water.

Section 9: Physical and Chemical Properties

Physical state : Solid (wire, strip, foil) >1.00mm

Appearance : Red/Orange Copper or Tin Metallic, silver to grey

Odour : Odourless

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Melting range : Typically (Cu) 1083°C, (Sn) 232°C.
Density : Typically 8.92 g/cm³
Solubility : Insoluble in water
Flammability : Not flammable in solid form

Section 10: Stability and Reactivity

Stability : Stable under normal conditions
Conditions to avoid : Molten metal contact with water
Incompatible materials : Strong acids, oxidising agents
Hazardous decomposition products : Hazardous polymerisation does not occur. There is no information available on the potential for harmful reactions.

Section 11: Toxicological Information

Solid form statement : No significant hazard in solid form under normal handling
Routes of exposure : Inhalation of dust/fume; skin contact
Acute effects : Irritation of the respiratory tract from fumes/dust

Section 12: Ecological Information

Metals are not biodegradable
Low mobility in solid form
It is insoluble in water.
Avoid uncontrolled release into the environment

Section 13: Disposal Considerations

Recycling of metal scrap is preferred
Dispose of waste in accordance with local and national regulations

Section 14: Transport Information

Not regulated for transport under ADR / RID / IMDG / IATA when supplied as solid articles

Section 15: Regulatory Information

EU REACH / CLP compliant
UK REACH / GB-CLP compliant
This product does not contain Substances of Very High Concern (SVHCs) above 0.1% w/w in solid form as supplied.

Section 16: Other Information

NA

Part Number
ECW0.4

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