

## **Safety Data Sheet**

HCS-2012 APPENDIX D TO §1910.1200 Regulation (EC) No 1907/2006 (REACH).

Annex II (COMMISSION REGULATION (EU) No 453/2010)

Applicant	KOPEN ELECTRICAL CO., LTD.
Address	2/F FLAT G-H WINNER FACTORY BUILDING, 55 HUNG TO ROAD, KWUN TONG, KOWLOON, HONG KONG.
Attn.:	Ms. Sarah See
Sample Description:	Lead Free Solder Wire
Model No.:	Ι

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 examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.

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 Nantou Checkpoint road 2,

 Shenzhen 518052, P. R. China
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## SECTION 1: Identification of the substance /mixture and of the company/undertaking

#### 1.1. Product identifier

Product Name:	Lead Free Solder Wire
Brand	No information available
Model No.:	No information available
REACH registration No .:	Not applicable

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use:	Soldering
Uses advised against:	No information available

## 1.3. Details of the supplier of the safety data sheet

Company:	ANTEX Electronics Ltd
Address:	2 Westbridge Industrial Estate, Tavistock, Devon, PL19 8DE
Telephone:	+44 (0) 01822 613565
FAX:	+44 (0) 01822 617598
E-mail:	sales@antex.co.uk
Emorgonov tok	phono number

## 1.4. Emergency telephone number

Emergency Phone:

+44 (0) 01822 613565

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008[CLP] Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

## 2.2. Label elements

Symbols/Pictograms



H335

Signal word Hazard Statements

Causes serious eye irritation. May cause respiratory irritation.

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Precautionary Statements

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Toxicity data:

Rosin: CAUTION: Certain Sensitive individuals may develop eczema and/or occupational asthma on exposure to this material. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.

#### Additional warning phrases:

Contains rosin. May produce an allergic reaction. Safety data sheet available for professional user on request.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Mixture

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tin (Sn)	231-141-8	7440-31-5	97.761	Eye Irrit. 2; STOT SE 3; H319, H335
Copper (Cu)	231-159-6	7440-50-8	0.739	Not classified
Modified rosin	L	65997-13-9	1.5	H337, H334

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General advice

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

#### **Skin Contact**

Wash off with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Ingestion

Rinse mouth. Do not induce vomiting. Get medical advice/attention.

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## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing Mo information available media :

5.2. Special hazards arising from the substance or mixture Tin/tin oxides

#### 5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas Ensure adequate ventilation, especially in confined areas Remove all sources of ignition Avoid contact with skin, eyes and inhalation of vapors Use personal protection recommended in Section 8

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so Do not allow into any sewer, on the ground or into any body of water

#### 6.3. Methods and material for containment and cleaning up

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

#### 6.4. Reference to other sections

See Section 7 for more information See section 8 for more information See section 13 for more information



#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Air and moisture sensitive. Handle and store under inert gas. Storage class (TRGS 510): Non Combustible Solids

#### 7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

Chemical Name	Australia	Austria	Denmark	ACGIH TLV	NIOSH IDLH
Copper (CAS #: 7440-50-8)	1 mg/m <sup>3</sup> 0.2 mg/m <sup>3</sup>	STEL 4 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> Cu dust and mist	IDLH: 100 mg/m <sup>3</sup> dust, fume and mist IDLH: 100 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> dust and mist TWA: 0.1 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> Cu dust and mist

## 8.2. Exposure controls

#### **Engineering Controls**

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). **Skin protection:** The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body protection:

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 8.3. Environmental exposure controls

Do not let product enter drains.

## **SECTION 9: Physical and Chemical Properties**

### 9.1. Information on basic physical and chemical properties

Appearance	Solid
Color	Silvery
Odor	Odourless
Odor Threshold	No information available
рН	No information available
Melting point/freezing point	No information available
Boiling point / boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability	Not flammable
Flammability Limit in Air	No information available
Vapor Pressure	No information available
Vapor density	No information available
Density	No information available
Relative density	No information available
Bulk density	No information available
Specific gravity	No information available
Water solubility	Insoluble in water
Partition coefficient	

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Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties No information available No information available No information available No information available Not an explosive No information available

### 9.2. Other information

No information available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No information available.

## 10.2. Chemical stability

Stable under normal conditions.

- **10.3.** Possibility of hazardous reactions No information available.
- **10.4.** Conditions to avoid Strong heating.

## 10.5. Incompatible materials

Strong oxidizing agents, Chlorine, permanganates, e.g. potassium permanganate

### 10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO2), Titanium/titanium oxides Other incomplete combustion products

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

Chemical Name	Oral LD50 (Rat)	Dermal LD50(Rabbit)	Inhalation LC50
Copper (CAS #: 7440- 50-8)	> 2500 mg/kg bw(rat)	> 2000 mg/kg bw(rat)	=1.03 mg/L/4 h(rat)

### Skin corrosion/irritation

No data available.



Serious eye damage/eye irrita	tion
No data available.	
Sensitization	
No data available.	
Germ cell mutagenicity	
No data available.	
Carcinogenicity	
No data available.	
Reproductive toxicity	
No data available.	
STOT - single exposure	
No data available.	
STOT - repeated exposure	
No data available.	
Aspiration hazard	
No data available.	
SECTION 12: Ecological inform	nation
CLOTION 12. LEUROgical IIIOIII	

## 12.1. Toxicity

No data available.

## 12.2. Persistence and degradability

No data available.

**12.3. Bioaccumulative potential** No data available.

### 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.



#### 12.6. Other adverse effects

No data available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused products:	Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated packaging:	Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information		
14.1.	UN Number	Not regulated
14.2.	Proper shipping name	Not regulated
14.3.	Hazard Class	Not regulated
14.4.	Packing Group	Not regulated
14.5.	Environmental hazards	Not marine pollutant
14.6.	Special precautions	No information available

## **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### International Inventories

No information available

### 15.2. Chemical safety assessment

No information available



## **SECTION 16: Other information**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Key or legend to abbreviations and acronyms used in the safety data sheet

**TWA** - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### Full text of H-Statements referred to under section 3

- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H337 May cause sensitization skin contact.
- H334 May cause sensitization by inhalation.

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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