

# SAFETY DATA SHEET

Product Name: Lead - Free Solder Wire

Issue Date: 11/11/2024 Version: 2

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**PRODUCT NAME:** Lead - Free Solder Wire  
**APPLICATIONS:** For Stock No.  
97992 Tube of Lead-Free Flux Cored Solder, 1mm, 20g  
97993 Reel of Lead-Free Flux Cored Solder, 1.2mm, 100g  
97994 Reel of Lead-Free Flux Cored Solder, 1.2mm, 250g  
71415 230V Soldering Kit, 25W  
**SUPPLIER:** **Draper Tools Ltd**  
Hursley Road  
Chandlers Ford  
Eastleigh  
Hampshire  
SO53 1YF  
[www.drapertools.com](http://www.drapertools.com)  
**Emergency telephone number:** Draper Helpline +44 (0) 2380 494344  
Opening hours 8:30-17:00 Monday – Friday.

## SECTION 2: Hazards identification

### EFFECTS OF SINGLE OVEREXPOSURE:

#### SWALLOWING:

Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may cause digestive discomfort.

#### SKIN ABSORPTION:

No evidence of adverse effects from available information.

#### INHALATION:

Short-term harmful health effects are not expected from vapor generated at ambient temperature.

#### SKIN CONTACT:

A single relatively short exposure causes no known adverse effects. Several repeated prolonged exposures (24 to 48 hours) may irritate.

#### EYE CONTACT:

Direct contact may cause temporary discomfort with mild redness, dryness, and irritation.

### EFFECTS OF REPEATED OVEREXPOSURE:

No evidence of adverse effects from available information.

### MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions.

### SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION:

None currently known.

### OTHER EFFECTS OF OVEREXPOSURE:

None currently known.

## SECTION 3: Composition/information on ingredients

Chemical Name	Proportion	CAS No.	EINECS.
Cu	0.7%±0.1	7440-50-8	231-131-3
Rosin	1-3%±0.5	8050-09-7	232-475-74
Sn	The rest	7440-31-5	231-141-8

## SECTION 4: First aid measures

### EMERGENCY AND FIRST AID MEASURES

#### SWALLOWING:

Emetic method. Obtain medical attention if discomfort persists.

#### SKIN:

Wash with soap and water.

#### INHALATION:

Emetic method. Obtain medical attention if discomfort persists.

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**EYES:**

Immediately flush eyes with water for at least 15 minutes. Obtain medical attention if discomfort persists.

**NOTES TO PHYSICIAN:**

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

**SECTION 5: Firefighting measures****Danger characteristic:**

Batteries may burst and release hazardous decomposition products when exposed to a fire situation.

**Hazardous combustion products:**

Carbon monoxide, carbon dioxide, metal oxide, irritate fume, etc.

**Fire-Fighting method & media:**

The staff must be equipped with filter mask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defence the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Put out a fire in the surrounding environment with the right agent. Such as CO<sub>2</sub>, dry powder, sandy clay.

**SECTION 6: Accidental release measure****STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal.

**WASTE DISPOSAL METHOD:**

Dispose of in accordance with all Federal, State, and local regulations.

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

Avoid long-term repeated contact with skin. Job site should keep ventilation. Keep away from heat. Seal container when not using. Reduce dust accumulation and generation. Avoid eye contact. Avoid breathing dust. Wash with soap and water after contact. Empty containers will contain this chemical residue. Don't damage the empty container.

**Storage:**

Stored in a low temperature, dry, well ventilated environment. Avoid direct sunlight. Store away from food and water, wash your hands thoroughly before eat bread or drink water. Far from taboo object, such as strong oxidizer, strong acid. Keep away from fire and heating sources. Equipped with corresponding varieties and number of fire equipment. Storage areas should be equipped with leakage emergency treatment equipment and suitable for accept materials.

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

**Monitoring method:** No data available

**Engineering controls:** Ensure vapor concentration in the workshop under the requirements of existing OSHA.

**Respiratory system safeguard:** Exceed the standard concentration in air, must wear self-priming filter type gas mask (half mask), emergency rescue or evacuation, should wear air respirator.

**Eye safeguard:** Wear chemical safety protective glasses.

**Body safeguard:** Wear anti-static clothes.

**Hand safeguard:** Wear rubber oil resistant glove.

**Else safeguard:** No smoking at job site. Avoid prolonged and repeated contact.

**SECTION 9: Physical and chemical properties**

**Melting Point:** 231.88°C

**Density(g/mL,20°C):** 7.28

**Fire Point:** 2507 °c

**Solubility In Water (By Wt) :** Insoluble

**Appearance:** Silvery solid

**Odor:** Odorless

**SECTION 10: Stability and reactivity**

**STABILITY:** Stable.

**CONDITIONS TO AVOID:** None

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**INCOMPATIBILITY:** Oxidizing materials can cause a reaction.

**HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:**

Burning can produce carbon monoxide, carbon dioxide, oxides of silicon, and hydrocarbons. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. May give off hydrogen fluoride upon combustion. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

**Decomposition product:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information**

**Irritation:** May cause sensitization by Inhalation and skin contact.

**Chronic toxicity:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Reproduction toxicity:** No known significant effects or critical hazards.

**SECTION 12: Ecological information**

**Ecotoxicity:** No known significant effects or critical hazards.

**Biological degradability:** No known significant effects or critical hazards.

**Non-living things degradability:** No known significant effects or critical hazards.

**Biology gathering and biology accumulate:** No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

**Waste disposal methods:**

All waste must be referring to the United Nations, national and local regulations for disposal, the dumped or discarded material may be regard as a restrictive waste referring to local regulations. Cleaning containers liquid containing this substance were also required treatment. Comply with waste law, atmospheric Pollution Act and water pollution law for disposal.

**SECTION 14: Transport information**

**DOT HAZARD CLASSIFICATION:** None

**I.A.T.A. HAZARD CLASSIFICATION:** None (Not Regulated)

**SECTION 15: Regulatory information**

Please note that waste disposal should meet local regulatory requirements.

**SECTION 16: Other information**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier, nor any its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

\*\*\* End of MSDS \*\*\*