

Safety Data Sheet



1: Chemical Product and Company Identification

Product identifier

Product : Lead Free Solder Wire

Details of the supplier of the safety data sheet

Premier Farnell
150 Armley Road
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Tel. : +44 (0) 8701 202530

Emergency telephone number

+44 1865 407333

2: Hazards Identification

Hazard classification

Acute toxic substance (inhalation) Level 4

Water environment toxic substances (acute toxicity) Level 3

Specific organ toxic matter - The repetition exposes level 2

Indication Content :  

Symbolic : Health: Exclamation mark

Warnings : Warning

1. Toxic by inhalation
2. Toxic to aquatic organisms
3. Long-term exposition possibly to organ injury

Precautionary Statement

1. The body thinks not comfortably, Inquires of the medical service
2. Not inspiration dust
3. Avoids with the skin contact

Other hazard : NA

3: Composition, Information or Ingredient

Components-Chemical Name	wt.%	CAS No.
Tin (Sn)	90 ~99	7440-31-5
Silver(Ag)	0.0 ~ 5	7440-22-4
Copper (Cu)	0 ~ 4	7440-50-8
Nickel(Ni)	0 ~ 0.5	7440-02-0
Germanium(Ge)	0 ~ 2	7440-56-4
Rosin	1 ~ 5	8050-09-7

4: First Aid Measures

First aid methods for different exposure routes: NA

Inhale : Move the patient to fresh air. If the patient has stopped breathing, give artificial respiration and send to the emergency department.



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Skin Contact : Rinse with plenty of water and use soap if possible. If irritation persists, seek medical attention.

Eye Contact : Rinse with plenty of water for 15 minutes or until the irritation disappears. If the irritation persists, seek medical attention.

Ingestion : Seek your doctor immediately.

The most important symptoms and harmful effects: irritation.

The protection to first-aid personnel: Should wear the protection equipment of level C to give first aid in the safe area.

Notes to physicians : -

5: Fire Fighting Measures

Extinguish Media : Use alcohol resistant foam, carbon dioxide or dry chemical extinguishing agents.

Fire-Fighting Instructions : Not applicable

Specific fire-fighting methods : Not applicable

Special equipment for the protection of firefighters : Oxygen cylinder and protective clothing.

6: Accidental Release Measures

Personal Precautions : The man who without wear protect equipping or clothes forbidden enter in the let out area before clean.

Environmental Precautions : Ventilate to the let out area.

Methods for cleaning up

1. Recycle the material or bury with the qualified method in most convenient and safe way.
2. The liquid can be absorbed with the vermiculite, sand, soil or similar material.

7: Handling and Storage

Handling : During work avoids producing the dust.

Storage : Dry and non-corrosive with no sunlight

8: Exposure Controls and Personal Protection

Engineering Measures : 1. Partial air exhaust device.
2. Whole air exhaust device.

Exposure Guidelines

Control parameters

Hazardous Ingredients	TWA(mg/m ³)	STE	CEILING	BEIs
Tin	2	-	-	-
Silver	0.01	-	-	-
Copper, fume	0.2	-	-	-

Protective Equipment

Respiratory protection : 0~10mg/m³: Dustproof breathing mask
20mg/m³: 1. Dustproof breathing mask. 2. Air supply type breathing mask.
50mg/m³: 1. Dustproof and air filter breathing mask.
2. Continuous air supply type breathing mask.
100mg/m³: 1. Contain high performance filter and air filter breathing mask.
2. Continuous air supply type breathing mask.



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	Unknown consistency: Continuous air supply type breathing mask.
	Escape: 1. Contain high performance filter and air filter breathing mask. 2. Continuous air supply type breathing mask.
Hand protection	: Rubber or plastic glove.
Eye protection	: 1. The safe goggles which can defend splash. 2. Face guard in an all-round way. 3. Don't wear the contact lenses.
Skin and body protection	: Apron, long sleeves clothes.
Hygiene measures	: Forbid smoking or diet in the workplace.

9: Physical and Chemical Properties

Appearance(physical state, colour)	: Silver grey solid
Odor threshold	: -
pH	: -
Flammability (solid, gas)	: -
Decompose temperature	: -
Auto-ignition temperature	: -
Vapor Pressure	: -
Density	: 7.3-7.4 g/cm ³
Partition coefficient(n-octanol/water,log Kow)	: -
Specific gravity (25°C)	: -
Solid content (%)	: -
Odor	: -
Melting point	: 217-270°C
Boiling Point	: -
Flash Point	: -
Test Method (Open cup or Close cup)	: -
Explosion Limit	: -
Vapor Density	: -
Solubility	: Almost Insoluble
Evaporation rate	: -
Acid value (mgKOH / g)	: -

10: Stability And Reactivity

Stability	: Stable
Possible hazardous reactions under specific conditions	: Not Applicable
Materials to be avoided	: Strong acids, strong oxidizers.
Dangerous products of decomposition	: Not Applicable

11: Toxicological Information

Routes of exposure	: Nose, Skin.
Symptoms	: May cause the irritation of nose, skin.
Acute toxicity	: May cause the irritation of nose, skin.
Chronic toxicity or long term toxicity	: -



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12: Ecological Information

Ecotoxicity : -
Persistent and biodegradable : -
Bio-accumulative potential : -
Mobility in soil : -
Other adverse effects : -

13: Disposal Considerations

Methods of waste disposal : -
Utilizing recoverably or according to the refuse disposal ordinance disposal

14: Transport Information

UN No. : -
UN Proper shipping name : Not applicable
Transportation hazard classification : Not-restricted by IATA and IMDG.
IMO- IMDG /ICAO/ IATA –DGR : Not regulated as a dangerous
Packing group : Not applicable
Marine pollutant (Yes/No) : Not applicable
Specific transport measures and precautionary conditions : Dry and non-corrosive with no sunlight

15: Regulatory Information

Applicable regulations:

1. Occupational Safety and Health Act.
2. Laborer operating environment permits the thickness standard
3. Industrial waste storage cleaning dispose method and facility standard
4. Hazardous chemicals labeled general rule

16: Other Information

NA

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