

MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product Name : Solder Wire Sn60/Pb40
Application of the Substance: Solder.
Manufacturer's Name : REDSUN METAL IND.CO.,LTD.
Address :NO.2 Ding Ning Rd.Chung Li Ind, Zone,Taoyuan 320, Taiwan
Telephone Number /Fax Number : 886(03)4521572/886(03)4522816

2. Hazards Identification Emergency Overview

Repeated exposure Category 1、Carcinogenicity Category 2、Germ cell mutagenicity Category 1

Symbol:



Signal words : Danger

Emergency overview: Component Lead is harmful by inhalation and if swallowed. Danger of cumulative effects. May Cause harm to the unborn child. Possible risk of impaired fertility.

adverse effects in the aquatic environment. Air sensitive.

Potential health effects: (Primary route of exposure)

Inhalation : Soldering fumes can respiratory irritation, Kidney and liver damage.

Oxides of nitrogen may be produced which are poisonous.

Eye contact : Can cause severe irritation and abrasion

Skin contact: May cause skin irritation, dermatitis.

Ingestion : May cause kidney and liver damage, lead poisoning.

3. Composition/Information on Ingredients

Chemical Name	Mass%	CAS No.
Tin(Sn)	58.8	7440-31-5
Lead(Pb)	39.2	7439-92-1
Rosin	2	8050/9/7

4. First Aid Measures

Inhalation : Remove from exposure to fresh air immediately. If not breathing, give respiration. If breathing is difficult, give oxygen. Get medical aid.

Eyes : Flush eye well with plenty running water for 15 minutes, occasionally lifting the upper and lower lids.Get medical aid.

Skin : Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes

while removing contaminated clothing and shoes.

Ingestion : Get medical aid immediately. Wash mouth out with water.

5. Fire Fighting Measures

Flammable properties: No information available

Extinguishing media: Dry chemical, carbon dioxide, chemical foam or sand.

Fire fighting instructions: Use self-contained breathing apparatus and full protective clothing for fires in enclosed areas.

6. Accidental Release Measures

Wipe up, then place into a suitable container for disposal.

7. Handling and Storage

Handling: Heating can release harmful fume. Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes.

Do not have any food, drink or smoke during soldering. Wash hands before eating or smoking after handling solder.

8. Exposure Controls/Personal Protection

Engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits

Personal protective equipment:

Use protective gloves, safety glasses or goggles, and appropriate protective clothing to prevent exposure.

Exposure guidelines:

Pb: 0.05mg/m³(OSHA : PEL, TWA)

Pb: 0.05mg/m³(ACGIH: TLV-TWA)

Pb: 150mg/m³(FRANCE PEL, TWA)

Pb: 0.1 mg/m³(GERMANY PEL, TWA)

Pb: 0.05 mg/m³(POLAND PEL, TWA)

Sn: 2 mg/m³(OSHA PEL, TWA)

Sn: 2 mg/m³(ACGIH TLV-TWA)

Sn: 2 mg/m³(AUSTRALIA, BELGIUM, DENMARK, FINLAND, GERMANY, NETHERLAND, SWITZERLAND, PHILIPPINES, THAILAND: PEL, TWA)

9. Physical and Chemical Properties

Appearance/Color : Gray paste
Odor : Feeble irritating odor.
Boiling point : Sn:2270°C, Ag:2155°C, Pb:1751°C, Rosin: approx. 200°C, solvent: 193°C
Melting point : Alloys: 210~240°C, Rosin: approx. 70°C
Specific gravity : Paste: approx. 5 (H₂O=1 at 20°C)
Solubility in in water : Insolubl

10. Stability and Reactivity

Chemical Stability : Stable under normal temperatures and pressures.
Conditions to Avoid: Strong oxidants.
Incompatibilities with other Materials : Strong oxidizing agents, acids.
Hazardous Decomposition Products : Not available.
Hazardous Polymerization : Will not occur.

11. Toxicological Information

Inhalation Effects : Soldering fumes can respiratory irritation, kidney and liver damage.
Skin Effects : May cause irritation, dermatitis.
Eyes Effects : Can cause irritation and abrasion.
Ingestion Effects : May cause kidney and liver damage.

12. Ecological Information

No information available.

13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

14. Transport Information

US DOT Hazard Class : Not regulated
US DOT ID number : Not applicable
Keep away from direct sunlight and contact with water. Avoid overturn, fall-down and any other damage on loading and transporting.
Transport material under competent regulations in your country.

15. Regulatory Information

European/International Regulations:
European Labeling in Accordance with EC Directives for Tin(Sn)
Hazard Symbols : Not available.
Risk Phrases : Not available.
Safety Phrases : S 24/25 Avoid contact with skin and eyes.

16. Other Information

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