

Material Safety Data Sheet

RadioShack

Cat. No. 64-035 [E]

1. Manufacturer Information

Manufacturer Address/Telephone/Fax : Ku Ping Enterprise Co., Ltd.
TEL : 8862-8201-3987/88/89 No. 5, Lane 302, Hsin-shuh Road,
FAX : 8862-8201-2368-(2388) Hsin-Chuang City, Taipei Hsien, Taiwan

2. Product Ingredients

Chemical Characteristic: Sn62/Pb36/Ag2 wire, with flux core, no odor			
Hazardous Material Classification and Figure : CONTAINS LEAD - HARMFUL CONTAINS ROSIN - IRRITANT			G
Hazardous Ingredients Name	WT%	C.A.S. Number	
Tin / SN	60-64(see product marking)	7440-31-5	Not Applicable
Lead / PB	36-40(see product marking)	7439-92-1	Not Applicable

3. Health Hazard Information

The most hazardous condition: Exposure to flux fumes during use of the product, ingestion of lead metal
Symptoms and effects: Eye irritation, headache, and irritation of the respiratory system

4. Emergency First Aid

Different routes of entry : Eyes, Inhalation, Ingestion
Inhalation : Remove person from exposure to fumes and restore breathing if necessary
Skin contact : Wash thoroughly with soap and water
Eye contact : Flush eyes with plenty of water and get medical attention
Ingestion : Induce vomiting and get prompt medical attention
The most serious symptom : Dizziness, nausea from flux fumes
Protective measurements : Flux concentration in air, Measurement of blood lead content.
Medical Conditions : Chemical hypersensitivity, pre-existing conditions of the lungs

5. Fire and Explosion Hazard Data

Extinguishing Media : CO₂ Chemical powder, Bubble type Extinguisher, Water
The hazard when extinguishing : Flux in cored wire solder may ignite when the solder melts in a fire.
Special firefighting procedures : Wear self-contained breathing apparatus if this material is in the vicinity of a fire.
Protective measures for firefighting man : None recommended
Hazard rating : Health: 1 Flammability: 2 Reactivity: 0

6. Procedures if material is spilled or released

Precautions for person : Wash hands with soap and water after handling solder wire. Do not breathe the fumes during sold

Precautions for environment : Solder can be reclaimed
Steps to be taken if material is spilled or released : Not applicable, material is metal wire.

7. Precautions to be taken in handling and storage

Handling : Avoid breathing smoke/fumes generated during soldering. Wash hands after handling solder metal.
Storage : Store in low humidity area to minimize tarnishing.

8. Protective measures against exposure

Material engineering control : Provide adequate exhaust ventilation (general and/or local) if necessary to meet exposure requirements. Local ventilation is preferred to minimize dispersion of smoke/fumes into the work area.		
Control parameters		
Average allowable concentration when 8 hours running TWA	Average allowable concentration when Short-time running STEL	The highest concentration allowed CEILING
Sn : 2.0mg/m ³ ; Pb : 0.05mg/m ³	Sn : 2mg/m ³ ; Pb : 0.15mg/m ³	Sn : 58.2mg/m ³ ; Pb : 38.8mg/m ³
Protective Measures		
Respiratory Protection : When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator should be worn.		
Protective gloves : Usually not required		
Eye protection : When soldering, use goggles or face shield		
Other protective clothing and equipment : None recommended		
Hygienic work practices : Wash hands thoroughly after handling chemicals or solder.		

9. Physical and Chemical Data

Material state : Solid	Appearance : Silver-gray metal wire
Color : Silver-gray metal wire	Odor : None
pH : Not applicable	Melting point : 183°C (361°F)
Decomposition temperature : None	Flash Point : Not applicable
Auto-ignition temperature : Not applicable	Exposure limit : Not determined
Vapor pressure : Not applicable	Vapor density : Not applicable
Specific gravity water : 1	Solubility : None in water

10. Stability and Reactivity

Stability : Stable under all conditions
Probably hazard effect under special condition : None known
Condition to avoid : Heat, Flame, Wet and soaking
Materials to avoid : Strong acids, strong oxidizing materials
Hazardous decomposition products : When heated to soldering temperatures, the fumes may contain rosin and thermal degradation products such as aliphatic aldehydes and acids.

11. Ecological Data

Probable effect to environment :
Long term degradation products are possible.

12. Waste Disposal

Waste disposal method : Solder metal can be recycled by reclamation.
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13. Delivery Information

International delivery regulation : LATA-Dangerous Goods Regulation, Not restricted

UN code : Not regulated

Domestic delivery regulation : None known

Special delivery method and precaution : None known

14. Law and Regulation

Conform to regulation : 1. Labor Safety & Sanitary Device Regulation
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2. Standards for the density of hazardous materials in labor working environment
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3. Identification rules for hazardous and harmful materials

4. Standards for waste disposal treatment and facility requirement
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5. Road traffic safety rules

15. Additional Information

Reference : MSDS database, CCINFO CD 98-2, NIOSH/OSHA, Occupational Health
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Guidelines for Chemical Hazards, 1981

Prepared by : Tony Yang

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Remark : These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
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