

## Safety Data Sheet

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b> Cored Solder Wire	
<b>CIRCUIT-TEST Model Nos.:</b> SR-340, SRW6337060-0500, SRW6337080-0200, SRW6337080-0500, SRW6337100-0500, SRW6337120-0500	
<b>Product Identifier:</b> RH60, RH63	
<b>Manufacture:</b> SHENMAO TECHNOLOGY INC.	
<b>Address:</b> No.12-1 Gongye 2 <sup>nd</sup> Rd., Guanyin industrial area, Taoyuan County 328, Taiwan	
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### 2. HAZARDS IDENTIFICATION

<b>EYE CONTACT:</b> Contact with material at room temperature or fume from material at typical re-flow temperatures over 100°C may cause eye irritation.
<b>SKIN CONTACT:</b> Can cause slight irritation.
<b>INGESTION:</b> Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
<b>INHALATION:</b> Vapors or fumes from this material at typical re-flow temperatures over 100°C may cause local irritation to the respiratory system.

### 3. COMPOSITION/INFORMATION ON INGREDIENT

Components-Chemical Name	CAS No.	Wt. %
Rosin	N.E.	1.0~4.0
Tin	7440-31-5	60~70
Silver	7440-22-4	0.0~5.0
Lead	7439-92-1	30~40

N.E.=Not Established

### 4. FIRST AID MEASURES

<b>First aid method in the different exposed way:</b>	
<b>EYE CONTACT</b>	Gently rinse the affected eyes with clean water for at least 15 minutes. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
<b>SKIN CONTACT</b>	Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.
<b>INHALATION</b>	Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel.
<b>INGESTION</b>	Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
<b>The most important symptoms and hazardous effect:</b> Irritation feeling	
<b>The protection to first-aid:</b> Should wear the level C protection equipment in the safe area implementation first aid.	

## 5. FIRE FIGHTING MEASURES

### EXTINGUISH MEDIA:

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

### FIRE-FIGHTING INSTRUCTIONS:

Shut off fuel to fire if possible to do so without hazard.  
 Evacuate area and fight fire from a safe distance.  
 Apply water from a safe distance to cool and protect surrounding area.  
 Firefighters should wear proper protective equipment.

**FLASH POINT:** Not applicable

**EXPLOSION LIMIT:** Not available

## 6. ACCIDENTAL RELEASE MEASURES

Shut out all sources of ignition; No flare, smoking or flames in area.

Wear proper protective equipment.

For spills, wipe and scrape away with cloth or paper, take up and store in a sealed container.

## 7. HANDLING AND STORAGE

### HANDLING:

Do not use fire near storage area.  
 Wear proper protective equipment.

### STORAGE:

Store in dry conditions. Exposure to sulfur or high humidity will tarnish solder surface.  
 Keep away from heat or sunlight.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### ENGINEERING MEASURES:

Use only with adequate ventilation and in closed systems.  
 Make available emergency shower and eye wash in the work area.

### EXPOSURE GUIDELINES:

ACGIH TLV: 0.15mg/m<sup>3</sup> (Lead)  
 2mg/m<sup>3</sup> (Tin)

### PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: Industrial canister gas masks. (Heating)  
 EYE PROTECTION: Safety goggles.  
 HAND, SKIN AND BODY PROTECTION: Rubber gloves.  
 Selection of specific items such as boots, apron or full-body suit will depend on operation.

## 9. PHYSICAL AND CHEMICAL PROPERTY

APPEARANCE:	Silver Grey Solid
VAPOR PRESSURE:	<0.01mmHg(20°C)
MELTING POINT:	179~183°C (Solder)
SPECIFIC GRAVITY:	8.4g/cm <sup>3</sup> (Solder, 20°C)
SOLUBILITY (IN WATER):	Almost Insoluble

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:**

Stable, hazardous polymerization will not occur.

**INCOMPATIBILITY WITH OTHER MATERIALS:**

Strong oxidizing agents, strong bases and strong acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon monoxide and Carbon dioxide on burning.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:**

**Primary irritant effect:**

On the skin: No irritant effect.

On the eye: Smoke during soldering can cause eye irritation.

Through inhalation: May cause respiratory irritation.

Through ingestion: May be harmful if swallowed.

Sensitization: No sensitizing effects known.

## 12. ECOLOGICAL INFORMATION

**GENERAL NOTES:** Do not allow product to reach ground water, water course or sewage system.

## 13. DISPOSAL CONSIDERATIONS

**RECOMMENDATION:**

Disposal must be according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

## 14. TRANSPORT INFORMATION

**UN CLASS:** Not applicable

**UN NUMBER:** Not applicable

Follow all regulations in your country and region.

## 15. REGULATORY INFORMATION

**APAN STATUS**

EXISTING CHEMICAL SUBSTANCES (MITI) : Listed.

**HCS CLASSIFICATION**

Irritating substance.

Sensitizing substance.

Target organ effects.

**US STATUS**

TSCA INVENTORY: All ingredients listed.

**STATE REGULATION**

Rhode Island RTK hazardous substances: Tin  
 Florida: Tin; Silver; M-Pyrrol; Rosin  
 Minnesota: Tin; Silver; M-Pyrrol; Rosin  
 Michigan critical material: Silver  
 Massachusetts RTK: Tin; Silver; Copper; M-Pyrrol  
 New Jersey spill list: Tin

**CALIFORNIA PROPOSITION 65**

Chemicals known to cause cancer:  
 WARNING: This product may contain a chemical in trace amounts known to the State of California to cause cancer.  
 Cadmium: 7440-43-9  
 Nickel: 7440-02-0

**INTERNATIONAL REGULATIONS**

EINECS: No available.  
 DSCL (EEC):  
 36/38-Irritating to eyes and skin.  
 42/43-May cause sensitization by inhalation and skin contact.  
 International Lists:  
 Australia (NICNAS): All compounds  
 Korea (TCCL): All compounds  
 Philippines (RA6969): All compounds

**LABELING ACCORDING TO EEC DIRECTIVES**

HAZARD SYMBOL : T-Toxic  
 RISK PHRASES : R 61-62-20/22-33  
 SAFETY ADVICES : S 53-45

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

## 16. OTHER INFORMATION

**REFERENCE:**

AIR PRODUCTS MSDS - INTERNATIONAL MARITIME DANGEROUS GOODS CODE

HAZARDOUS	NFPA	HMIS	LEVEL: 0~4 : From least to serious NFPA: National Fire protection Association rating identifies hazards during a fire emergency. HMIS: Hazardous Materials Identification System rating applies to process as packaged.
HEALTH	1	1	
FLAMMABILITY	1	1	
REACTIVITY	0	0	

**COUNTRY OF ORIGIN: TAIWAN, R.O.C**

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