昇貿科技 SHENMAO Technology Inc.

Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Lead Free Solder Wire	
Other name:	
Product identifier: PF601-R、PF603-R、PF604-R、PF606-R、PF607-R、PF608-R、PF609-R、PF610-R、PF614-R、PF619-R、PF620-R、PF627-R、PF629-R、PF632-R、PF634-R、PF636-R、PF637-R、PF638-R、PF639-R、PF640-R、PF643-R、PF645-R、PF606-F3、F604-F4、PF606-F4 、PF629-F4 、PF643-F4 、PF604-F5 、PF606-F5 、PF643-F5 、PF667-F5 、PF668-F5 、PF604-F7 、PF606-F7 、PF627-F8 、PF628-F8 、PF604-F11 、PF610-F11 、PF629-F11	
Suggest purpose:	
Manufacture: SHENMAO TECHNOLOGY INC.	
Address: No.12-1 Gongye 2nd Rd., Guanin industrial area, Taoyuan County 328, Taiwan	
TEL: (886)3-416-0177	**FAX:** (886)3-416-0133
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2. HAZARDS IDENTIFCATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC)No 1272/2008

GHS08 health hazard

H372. Causes damage to organs

H412 Harmful to aquatic life with long lasting effects.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07 GHS08

Signal word Warning

Hazard-determining components of labelling:

3. COMPOSITION, INFORMATION OR INGREDIENT

Mixture：

Components-Chemical Name：	**wt. %**	
Tin	90.0~97.0	CAS:7440-31-5 EINECS: 231-141-8
Rosin Skin Sens. 1, H317	1.0-5.0	--
SILVER (Ag)	0.0~5.0	CAS: 7440-22-4 EINECS: 231-131-3
COPPER (Cu)	0.0~4.0	CAS: 7440-50-8 EINECS: 231-159-6
ANTIMONY (Sb)	--	CAS: 7440-36-0 EINECS: 231-146-5
BISMUTH (Bi)	--	CAS: 7440-69-9 EINECS: 231-177-4
Lead Carc. 2, H351; Repr. 1B, H360; STOT RE 2, H373 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	--	CAS:7439-92-1 EINECS: 231-100-4

4. FIRST AID MEASURES

First aid method in the different exposed way:	
EYE CONTACT	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.
SKINCONTACT	Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.
INHALATION	Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel.
INGESTION	Give the person one or two glasses of water or solution of salt, try to get the victim to vomit. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
The most important symptoms and hazardous effect: —	
The protection to first-aid: Should wear the level C protection equipment in the safe area implementation first aid.	
Notes to physicians: If the patient swallows, consideration gastric lavage and bowel movement.	

5. FIRE-FIGHTING MEASURES

EXTINGUISH MEDIA:
Use alcohol resistant foam, carbon dioxide or dry chemical extinguishing agents.
FIRE-FIGHTING INSTRUCTIONS:

1. Move the container out to the safe area. 2. Cooling storing or container expose in a fire scene with wate
Special equipment for the protection of firefighters: —

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: Keep away from heat or sunlight. Store in a cool (0-10℃) place in closed containers.

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: 0.1mg/m3 (Silver) 2mg/m3 (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. Physics and chemical property

Appearance:	solid wire
Melting point	210~232℃
FLASH POINT	Not available
VAPOR PRESSURE:	Not available
Density	7.2g/cm^3~7.5g/cm^3 (20℃)
SPECIFIC GRAVITY	Not available
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 oxide on burning.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

CORROSIVE AND IRRITANT PROPERTIES:Not available
ALLERGENIC AND SENSITIZING EFFECTS: Not available
ACUTE TOXICITY: Not available
SUB-ACUTE TOXICITY: Not available
CHRONIC TOXICITY: Animal drink water containing 0.18mg/L of lead may get lead poisoning. Rats ingested the 0.005mg/Kg of lead showed evidence of CMS disturbances.
CARCINOGENIC EFFECTS: Not available
MUTAGENIC EFFECTS: Not available
EFFECTS ON THE REPRODUCTIVE SYSTEM: Not available
TERATOGENIC EFFECTS: Not available

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Methods of waste disposal: Bury with qualified hygiene.

14. TRANSORTS INFORMATION

UN No.: —
UN Proper shipping name: —
Transportation hazard classifcation: —
Packing group: —
Marine pollutant (Yes/No): —
Specific transport measures and precautionary conditions: —

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

All ingredients are listed on the following Government Inventories:

China: Inventory of Existing Chemical Substances in China (IECSC)

Korea: Korea Existing Chemicals List (ECL)

Europe: European Inventory of Existing Commercial Chemical Substances (EINECS)

Japan: Inventory of Existing and New Chemical Substances (ENCS)

Philippines: Philippine Inventory of Chemicals and Chemical Substances (PICCS)

USA: TSCA (Toxic Substances Control Act) TSCA Inventory of Chemical Substances

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07 GHS08

Signal word Warning

Hazard-determining components of labelling:

H372. Causes damage to organs

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves / eye protection.

P270 Do not eat, drink or smoke when using this product.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P402 Store in a dry place.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Reference	Occupational Safety and Health Administration , Ministry Of Labor, GHS inquiry system	
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