Sn40Pb60 Solder Wire

1. COMPOSITION, INFORMATION OR INGREDIENT

Components-Chemical Name	wt.%	CAS No.
Tin (Sn)	40	Rem
Lead (Pb)	60	7440-91-1

2. HAZARDS IDENTIFICATION

EYE CONTACT:
Contact with material at room temperature or fume from material at typical re-flow temperatures over 1000C may cause eye irritation.

SKIN CONTACT:
Can cause slight irritation.

INGESTION:
Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

INHALATION:
Vapors or fumes from this material at typical re-flow temperatures over 1000C may cause local irritation to the respiratory system.

3. FIRST AID MEASURES

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.

SKIN CONTACT:
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.

4. 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

5. 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.

6. HANDLING AND STORAGE

HANDLING: Do not use fire near storage area. Wear proper protective equipment.
STORAGE: Store in dry conditions. Exposure to sulfur or to high humidity will tarnish solder surface.

7. 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: 0.05mg/m3 (Lead) 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.

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Sliver grey solid
BOILING POINT	Undetermined
VAPOR PRESSURE	<0.01mmHg (at 200C)
Solidus, Liquidus	1830C, 2380C
SPECIFIC GRAVITY	8.4 g/cm3 (Solder at 200C)
SOLUBILITY (IN WATER)	Almost Insoluble

9. STABILITY AND REACTIVITY

Thermal decomposition: No decomposition if used according to specifications.
Materials to be avoided: Strong acids, strong oxidizers.
Dangerous reactions: No dangerous reactions known.
Dangerous products of decomposition: No dangerous decomposition products known.

10. 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.

11. ECOLOGICAL INFORMATION

General notes: Do not allow product to reach ground water, water course or sewage system.

12. DISPOSAL CONSIDERATIONS

Recommendation:

- Dispose must be according to official regulations.
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

13. TRANSPORT INFORMATION

UN CLASS: Not applicable

UN NUMBER: Not applicable Follow all regulations in your country.

14. 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.

California Proposition 65

Chemicals known to cause canner:

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, Cadmium:7440-43-9

INTERNATIONAL REGULATIONS

EINECS: No available.
DSCL (EEC): 36/38-Irritationg to eyes and skin.
42/43-Msy 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.

15. 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	2	2	
FLAMMABILITY	0	0	
REACTIVITY	0	0	

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