
MATERIAL SAFETY DATA SHEET

Lead Free Solder Wire SN97AG2.5CU0.5

Revision Date: 00/01/2006

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

- 1.1 PRODUCTS IDENTIFICATION:** Lead Free Solder Wire SN97AG2.5CU0.5
- 1.2 USE OF SUBSTANCE:** Information not supplied
- 1.3 COMPANY:** Antex (Electronics) Ltd
2 Westbridge Industrial Estate
Tavistock
Devon
PL19 8DE
Telephone Number: 01822 613565
Fax No: 01822 617598
- 1.4 EMERGENCY TELEPHONE: 01822 613565**

2. HAZARDS IDENTIFICATION

The flux fumes given off during soldering will irritate the eyes, nose and respiratory system. Prolonged or repeated exposure to flux fumes may cause an asthmatic reaction in sensitive individuals. Contact with flux residues may cause skin irritation and sensitisation.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance is a mixture with following general composition**

Note: Solder Wire is considered to be an article and is not subject to the Classification (Hazard Information and Packaging for Supply) Regulations 2002, because it is not hazardous as supplied. However, this product may become hazardous in use and the information included in this data sheet reflects the hazards associated with solder operations.

Ingredients	CAS No	Wt Percentage	PEL-OSHA	TLV-ACGIH
TIN	7440-31-5	97.00	2.0mg/m ³	2.0mg/m ³
+ SILVER	7440-22-4	2.50	0.01mg/m ³	0.01mg/m ³
+ COPPER	7440-50-8	0.50	0.1mg/m ³	0.2mg/m ³

Occupational exposure limits.

Extraction is necessary to remove fumes evolved during soldering.

MATERIAL SAFETY DATA SHEET

Lead Free Solder Wire SN97AG2.5CU0.5

Revision Date: 00/01/2006

4. FIRST-AID MEASURES**Inhalation:**

Fumes given off by fluxes may irritate the nose and throat.
Remove patient to fresh air.
Obtain medical attention if there is any respiratory distress.

Eye Contact Exposure:

Flux fumes may irritate the eyes. The flux may spit during soldering.
Flush immediately with plenty of water for at least 15 minutes.
In cases where spitting flux has entered the eye seek medical attention

Skin Contact:

Wash hands with soap and water after handling solder.
If any skin irritation develops seek medical attention

Oral Ingestion:

Drink clean water and seek medical aid.

5. FIRE-FIGHTING MEASURES

Use carbon dioxide, dry chemicals or sand to surround the fire.
High temperatures may produce toxic fumes and vapours containing heavy metals.
Avoid breathing fumes by wearing suitable respirator and protective clothing.
Allow spill to solidify and cool.
Take care not to use water on molten metal.
If necessary, damp the spill area to prevent entry of molten metal into drains.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions:**

Not Applicable.

Environmental Precautions:

Not Applicable.

Methods of Cleaning Up:

Not Applicable.

7. HANDLING AND STORAGE**Handling Precautions:**

Do not eat, drink or smoke during use. Wash hands after handling solder wire.

MATERIAL SAFETY DATA SHEET

Lead Free Solder Wire SN97AG2.5CU0.5

Revision Date: 00/01/2006

Storage Precautions:

Store away from oxidizing agents and acids. Store in a cool dry area and keep in the original boxes to be stored away from food and drink.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Respiratory Protection:**

When soldering is being done fume extraction equipment should be in operation

Eye Protection:

Safety glasses should be worn to protect the eyes

Skin Protection:

Gloves should be worn when handling solder products.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Glossy silver metallic solid
Odour:	Odour when in melted form
Boiling Point:	Not determined
Melting Point:	217°C
Flash Point:	None
Vapour Pressure:	None
Solubility in Water:	Insoluble
Density:	Approx 7.310 for solder alloy
PH:	Not Applicable

10. STABILITY AND REACTIVITY**Stability:**

Stable under normal conditions

Incompatible Material:

Solder will react with oxides (for example hydrogen peroxide). If personnel are exposed to these types of gasses immediate medical attention should be sought.

Hazardous Polymerization:

This will not occur

11. TOXICOLOGICAL INFORMATION**Acute Toxicity:**

The product does not present a risk at ambient temperatures. The flux fumes evolved during soldering will irritate the nose, throat and lungs. Repeated or prolonged exposure to flux fumes may cause an allergic affect which may lead to occupational asthma.

MATERIAL SAFETY DATA SHEET

Lead Free Solder Wire SN97AG2.5CU0.5

Revision Date: 00/01/2006

Chronic Toxicity:

There are no known chronic effects associated with the use of lead-free solder alloys.

12. ECOLOGICAL INFORMATION**Biodegradability:**

The product is not biodegradable.

13. DISPOSAL CONSIDERATIONS

Wherever possible unwanted solder should be re-cycled for recovery of metal. Uncontrolled disposal should be in accordance with local and national legislation. In the UK this is the Control of Pollution Act 1974, the Environmental Protection Act 1990 and the regulations made under them.

14. TRANSPORT INFORMATION**ADR, IMDG, RID, ICAO AND IATA:**

Not classified as hazardous for transportation

15. REGULATORY INFORMATION

Classification according to the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. Solder alloy is considered to be an article and is not subject to the above regulations.

16. OTHER INFORMATION

The Health and Safety at Work etc. Act 1974
The Control of Substances Hazardous to Health Regulations 1994
The Management of Health and Safety at Work Regulations 1992.

The information presented in this safety data sheet is accurate to the best of knowledge and belief of Antex Electronics Ltd. As we cannot anticipate all conditions under which this information of our products or the products of other suppliers in combination with our products are used this safety data sheet cannot constitute the user's assessment of workplace risk. Users are advised to make their own tests to determine the safety and suitability of each product or product combination for their own purposes.