

MATERIAL SAFETY DATA SHEET

Recommendations For The Control Of Substances That Could Constitute A Hazard To Health And Safety

LEAD FREE SOLDER WIRE

1. PRODUCT & COMPANY IDENTIFICATION.

Commercial Name:-**Lead Free Solder Wire SN97AG2.5CU0.5 (for soldering purposes)**

Supplier :- Antex (Electronics) Limited
2 Westbridge Industrial Estate, Tavistock. Devon. PL19 8DE
Tel : ~44 (0)1822 613565, Fax : 617598
Email : sales@antex.co.uk

Tech Department: 01822 613565 (08.00-17.00 Monday to Thursday, and 08.00-13.00 Friday)

Supplied by:
RS Components Ltd,
Birchington Road, Corby, Northants, NN17 9RS.
Tel: +44 (0) 1536 402888 (8am to 8pm)
Email: technical.help@rs-components.com

2. HAZARD IDENTIFICATION

Note: Solder Wire is considered to be an article and is not subject to the Classification (Hazard Information and Packaging for Supply) Regulations, 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.

INGREDIENT	CAS NO.	WT, PERCENT	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.

3. COMPOSITION / INFORMATION ON INGREDIENTS.

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.

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.

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

Eye Contact: 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.

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 for cleaning up: Not applicable

7 HANDLING AND STORAGE.

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

Storage: 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 AND PERSONAL PROTECTION.

Eyes: Safety glasses should be worn to protect the eyes.

Skin: Gloves should be worn when handling solder products

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

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.

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. 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.

Issued: August 2010 Issue 2