# SAFETY DATA SHEET

#### Lead Free Wire

# 1. Chemical Product and Company Identification

Product Name: LEAD FREE WIRE

Product Item: F11A-0.5B~2.0B; RHF11A-0.5~2.0; F11A-0.5~2.0; TIN KR-168 F11A

Manufacturer's Name: Rothenberger

Address: Unit 2 Kingsthorne Park, Henson Way, Kettering, Northants, NN16 8PX, UK.

Telephone Number /Fax Number: 01536 310300 / 01536 310600

# 2. Hazards Identification Emergency Overview

Repeated exposure Category 1

Symbol:



Signal words: Danger

Emergency overview: Not available.

Potential health effects: (Primary route of exposure)

Inhalation: May cause respiratory tract irritation. The toxicological properties of

this substance have not been fully investigated.

Eye contact: May cause eye irritation. Skin contact: May cause skin irritation.

Ingestion: The toxicological properties of this substance have not been fully

investigated. May be harmful if swallowed.

3. Composition/Information on Ingredients

| Chemical Name | Mass% | CAS No.   |
|---------------|-------|-----------|
| Tin(Sn)       | 97.3  | 7440-31-5 |
| Copper(Cu)    | 0.69  | 7440-50-8 |
| Rosin         | 2     | 8050-09-7 |

#### 4. First Aid Measures

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give rtificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Eyes: Flush eye well with plenty running water for 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Wash mouth out with water.

# 5. Fire Fighting Measures

Flammable properties: No information available

Extinguishing media: Dry chemical, carbon dioxide, chemical form or sand.

Fire fighting instructions: Use self-contained breathing apparatus and full protective

clothing for fires in enclosed areas.

#### 6. Accidental Release Measures

Wipe up, then place into a suitable container for disposal.

### 7. Handling and Storage

Handling: Heating can release harmful fume. Avoid breathing dust, vapor, mist or gas. Avoid

contact with skin and eyes.

Do not have any food, drink or smoke during soldering. Wash hands before eating or

smoking after handling solder.

# 8. Exposure Controls/Personal Protection

Engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations

below the permissible exposure limits

Personal protective equipment:

Use protective gloves, safety glasses or goggles, and appropriate protective

clothing to prevent exposure.

Exposure guidelines:

Sn: 2mg/m3(OSHA : PEL,TWA)

Sn: 2mg/m3(ACGIH: TLV-TWA)

Sn: 2mg/m3(AUSTRALIA, BELGIUM, DENMARK, FINLAND, GERMANY, NETHERLAND,

SWITZERLAND, PHILIPPINES, THAILAND: OEL-TWA)

Cu: 0.2mg/m3(OSHA: PEL,TWA)

Rosin: 0.5mg/m3(TWA) 0.5mg/m3(STEL)

# 9. Physical and Chemical Properties

Appearance/Color: Solid

Odor: No.

Boiling point : 2507℃

Melting point : Alloys: 227°C Specific gravity : 7.30896 Solubility in in water : Insolubl

# 10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Strong oxidants.

Incompatibilities with other Materials: Strong oxidizing agents, acids.

Hazardous Decomposition Products: Not available.

Hazardous Polymerization: Will not occur.

### 11. Toxicological Information

Inhalation Effects: Soldering fumes can respiratory irritation, kidney and liver damage.

Skin Effects: May cause irritation, dermatitis.

Eyes Effects: Can cause irritation and abrasion.

Ingestion Effects: May cause kidney and liver damage.

# 12. Ecological Information

No information available.

# 13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### 14. Transport Information

US DOT Hazard Class: Not regulated

US DOT ID number: Not applicable

Keep away from direct sunlight and contact with water. Avoid overturn,fall-down and any

other damage on loading and transporting.

Transport material under competent regulations in your country.

# 15. Regulatory Information

European/International Regulations:

European Labeling in Accordance with EC Directives for Tin(Sn)

Hazard Symbols : Not available. Risk Phrases : Not available.

Safety Phrases: Avoid contact with skin and eyes.

### 16. Other Information

|  | Tabulation    | Name: ROTHENBERGER UK LTD.  |             |                    |           |  |
|--|---------------|---|-------------|--------------------|-----------|--|
|  |               | Address: Unit 2 Kingsthorne Park, Henson Way, Kettering, Northants, NN16 8PX, UK. |             |                    |           |  |
|  | person's unit | TEL: 01536 310300   |             | FAX: 01536 310600  |           |  |
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|  |               | Preparation Date  | 2015/8/6    | last Revision Date | 2015/8/6  |  |