

Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Lead-free Solder wire

Product identifier: 856867 856868 856866 856864 856865 856870 856871
856869 856876 856872 856873 856874 856875

Manufacture: Rapid Electronics Limited

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GHS07

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



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Skin Sens. 1 H317 May cause an allergic skin reaction.

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



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Signal word:

Warning

Hazard-determining components of labelling:

Rosin

Tin

Silver

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary Statements

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P402: Store in a dry place.

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

2.3 Other hazards

Results of PBT and vPvB assessment


PBT: Not applicable.

vPvB: Not applicable.

Other hazard: –

3. COMPOSITION, INFORMATION OR INGREDIENT

Mixture

| Components-Chemical Name | wt. % | |
|--|-----------|-------------------------------------|
| Tin (Sn) | 90.0~99.0 | CAS:7440-31-5 EINECS: 231-141-8 |
| 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 |
| Rosin  Skin Sens. 1, H317 | 1.0~5.0 | 8050-09-7 |

4. FIRST AID MEASURES

| First Aid measures for various types of exposure: | |
|---|---|
| EYE CONTACT | Flush eyes with plenty of clean water for at least 15 minutes. If Irritation persists seek medical attention. |
| SKIN CONTACT | Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, seek medical attention. |
| INHALATION | Move to fresh air. If symptoms persist, seek medical attention. |
| INGESTION | Do not induce vomiting. Seek medical attention. |
| The most important symptoms and hazardous effect: Fumes may irritate the nose, throat and lungs. Prolonged or repeated exposure may trigger an allergic reaction or asthma. Prolonged or repeated contact may cause skin irritation. Prolonged or repeated contact may cause eye irritation. | |
| Protection for First-Aiders: See above first aid measures. | |

5. FIRE-FIGHTING MEASURES

EXTINGUISH MEDIA:

Carbon dioxide, foam or powder.

FIRE-FIGHTING INSTRUCTIONS:

Specific fire-fighting methods:

Do not use water where molten metal is present.

Special equipment for the protection of firefighters:

High temperatures may cause heavy metal dust and fumes. Breathing apparatus is recommended.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear personal protective equipment.

Ensure adequate ventilation.

Avoid contact with eyes and skin.

Environmental Precautions:

Do not empty into the drainage system.

Method for cleaning/spill:

Scrape up spilled material and store in a sealed container.

Dispose of via an approved waste disposal method.

7. HANDLING AND STORAGE

HANDLING:

Use a fume extraction system.

Wash hands after handling the product

Do not consumer food or drink while handling or using the product.

STORAGE:

Store in a cool dry place out of direct sunlight.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING MEASURES:

1. Partial air exhaust device.

2. Whole air exhaust device.

EXPOSURE GUIDELINES:

TWA: 2mg/m³ (Tin)

PROTECTIVE EQUIPMENT:

Respiratory protection: 0~10 mg/m³:

Dust proof breathing mask.

20 mg/m³:

1. Dust proof breathing mask.

2. Air supply type breathing mask.

50 mg/m³:

1. Dust proof and air filter breathing mask.

2. Continuous air supply type breathing mask.

100 mg/m³:

1.Contain high performance filter and air filter breathing mask.

2. Continuous air supply type breathing mask.

Unknown consistency:

Continuous air supply type breathing mask.

Escape:

1.Contain high performance filter and air filter breathing mask.

2. Continuous air supply type breathing mask.

Hand protection:

Rubber or plastic glove.

Eye protection:

1. Safety goggles.

2. Face guard.

3. Don't wear contact lenses.

Skin and body protection:

Apron, long sleeves clothes.

Hygiene measures:

Do not eat, drink or smoke while using the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--|---------------------------|--------------------------------------|------------------|
| Appearance: | Silver grey Solid | Odour: | — |
| Odour threshold: | — | Melting point: | 217-270°C |
| Ph value: | — | Boiling point: | — |
| Flammability (solid, gas): | — | Flash Point: | — |
| Decomposition temperature: | — | Test method (Open cup or Close cup): | — |
| Auto ignition temperature: | — | Explosion limits: | — |
| Vapour pressure: | — | Vapour density: | — |
| Density: | 7.3-7.4 g/cm ³ | Solubility: | Almost Insoluble |
| Partition coefficient (n-octanol/ water, log Kow): | — | Evaporation rate: | — |
| Specific gravity (25°C): | — | Acid value (mgKOH / g): | — |
| Solid content (%): | — | | |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | Stable |
| Possible hazardous reactions under specific conditions: | Not applicable |
| Materials to be avoided: | Strong acids, strong oxidizers. |
| Conditions to avoid: | No decomposition if storage guidelines are followed. |

11. TOXICOLOGICAL INFORMATION

| | |
|--|---|
| Routes of exposure: | Nose, skin. |
| Symptoms: | May cause the irritation of nose, skin. |
| Acute toxicity: | May cause the irritation of nose, skin, may damage fertility or unborn child. |
| Chronic toxicity or long term toxicity: | — |

12. ECOLOGICAL INFORMATION

| | |
|--------------------------------------|------------------------------------|
| Ecotoxicity: | Do not empty into drainage system. |
| Persistent and biodegradable: | The product is not biodegradable. |
| Bio-accumulative potential: | No data available. |
| Mobility in soil: | The product is insoluble. |
| Other adverse effects: | No data available. |

13. DISPOSAL CONSIDERATIONS

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| Methods of waste disposal: | Disposal of surplus and waste product should be carried out via a licensed waste disposal contractor. |
|-----------------------------------|---|

14. TRANSPORT INFORMATION

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| UN No: | Not applicable |
| UN Proper shipping name: | Not applicable |
| Transportation hazard classification: | Not-restricted by IATA |
| Packing group: | Not applicable |
| Marine pollutant (Yes/No): | Not applicable |
| Specific transport measures and precautionary conditions: | Dry and non-corrosive with no sunlight |

15. REGULATORY INFORMATION

Applicable regulations:

The Health & Safety at Work Act 1974.
 The Control of Lead at Work Regulations
 The Control of Substances Hazardous to Health Regulations
 Labelling according to Regulation (EC) No 1272/2008
 The product is classified and labelled according to the CLP regulation
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Hazard pictograms



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Signal word: Warning

Hazard-determining components of labelling: Rosin
 Tin
 Silver

Hazard statements

H372 Causes damage to organs
 H412 Harmful to aquatic life with long lasting effects

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 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

Other Information

| | |
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| | None |
|--|------|

Further Information

| | |
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| | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. |
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