

Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 60/40 Tin/Lead Solder wire

Product identifier: 856860 856861 856862 856863

For professional use only

Manufacture: Rapid Electronics Limited

Address: Severalls Lane, Colchester, Essex, CO4 5JS

TEL: +44 1206 751166

Website: <http://www.rapidonline.com>



GHS07



GHS08

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

| | | |
|----------|------|--|
| Carc.2 | H351 | Suspected of causing cancer |
| Repr.1B | H360 | May damage fertility or the unborn child |
| STOT RE. | H373 | May cause damage to organs |



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| | | |
|------------|--------|-------------------------------------|
| Acute Tox. | 4 H302 | Harmful if swallowed. |
| Acute Tox. | 4 H312 | Harmful in contact with skin. |
| Acute Tox. | 4 H332 | Harmful if inhaled. |
| 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



GHS07



GHS08

Signal word:

Danger

Hazard-determining components of labelling:

LEAD (Pb)
Rosin

Hazard statements




| | |
|-----------------|---|
| H351: | Suspected of causing cancer |
| H360: | May damage fertility or the unborn child |
| H373: | May cause damage to organs through prolonged or repeated exposure |
| H302+H312+H332: | Harmful if swallowed, in contact with skin or if inhaled. |
| H317: | May cause an allergic skin reaction |

Precautionary Statements

| | |
|-----------------|--|
| P270: | Do not eat, drink or smoke when using this product. |
| P272: | Contaminated work clothing should not be allowed out of the workplace. |
| P280: | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331: | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P302+P352: | IF ON SKIN: Wash with plenty of soap and water. |
| P304+P340: | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P321: | Specific treatment (see ... on this label). |
| P333+P313: | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364: | Take off contaminated clothing and wash it before reuse. |
| P402: | Store in a dry place. |
| P501: | Dispose of contents/container in accordance with local/regional/national/international regulations |

3. COMPOSITION, INFORMATION OR INGREDIENT

Mixture

| Components-Chemical Name | wt. % | CAS No. |
|--|---------|------------------------------------|
| Tin | 5.0-95 | CAS:7440-31-5 EINECS: 231-141-8 |
|  Lead Carc. 2, H351; Repr. 1B, H360; STOT RE 2, H373  Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 | 5.0-98 | CAS:7439-92-1 EINECS: 231-100-4 |
|  Rosin Skin Sens. 1, H317 | 0.5-5.0 | |

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 consume 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:

Use only with adequate ventilation and in closed systems.

Provide eye wash stations.

EXPOSURE GUIDELINES:

ACGIH TLV: 0.15mg/m³ (Lead)

2mg/m³ (Tin)

PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION:

Not necessary if used in a well ventilated area with suitable fume extraction equipment.

EYE PROTECTION:

Safety goggles.

HAND, SKIN AND BODY PROTECTION:

Rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------------|--------------------------|--|------------------|
| Appearance: | Silver grey Solid | Odour: | — |
| Odour threshold: | — | Melting point: | 183-314°C |
| Ph value: | — | Boiling point: | — |
| Flammability: | — | Flash Point: Test Method (Open cup or Close cup): | — — |
| Decomposition temperature: | — | Test method: | — |
| Auto ignition temperature: | — | Explosion limits: | — |
| Vapour pressure: | — | Vapour density: | — |
| Density: | 8.2-11 g/cm ³ | Solubility: | Almost Insoluble |
| Partition coefficient (log Kow): | — | Evaporation rate: | — |

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

Stable, hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Strong oxidizing agents, strong bases and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon oxide on burning.

HAZARDOUS POLYMERIZATION:

Will not occur.

11. TOXICOLOGICAL INFORMATION

CORROSIVE AND IRRITANT PROPERTIES:

Not available

ALLERGENIC AND SENSITIZING EFFECTS:

Not available

ACUTE TOXICITY:

Not available

SUB-ACUTE TOXICITY:

Not available

CHRONIC TOXICITY:

Poisoning may occur in animals drinking water containing greater than 0.18mg lead per litre. Rats that had ingested 0.005mg/kg of lead showed evidence of CMS disturbances.

CARCINOGENIC EFFECTS:

Not available

MUTAGENIC EFFECTS:

Not available

EFFECTS ON THE REPRODUCTIVE SYSTEM:

May damage fertility or unborn child

TERATOGENIC EFFECTS:

Not available

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

All ingredients are listed on the following Government Inventories:

| | |
|--------------|---|
| China: | Inventory of Existing Chemical Substances in China (IECSC) |
| Korea: | Korea Existing Chemicals List (ECL) |
| Europe: | European Inventory of Existing Commercial Chemical Substances (EINECS) |
| Japan: | Inventory of Existing and New Chemical Substances (ENCS) |
| Philippines: | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| USA: | TSCA (Toxic Substances Control Act) TSCA Inventory of Chemical Substances |

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Hazard pictograms



GHS07



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Signal word: Danger

Hazard-determining components of labelling: LEAD (Pb)
Rosin

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Precautionary statements

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| P304+P340: | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P301+P330+P331: | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P302+P352: | IF ON SKIN: Wash with plenty of soap and water. |
| P402: | Store in a dry place. |
| P501: | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| P261: | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P272: | Contaminated work clothing should not be allowed out of the workplace. |
| P333+P313: | If skin irritation or rash occurs: Get medical advice/attention. |
| P321: | Specific treatment (see ... on this label). |
| P362+P364: | Take off contaminated clothing and wash it before reuse. |

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 |
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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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