

# Carl Kammerling International Ltd

MATERIAL SAFETY DATA SHEET  
According to 1907/2006/EC, Article 31  
Revision 3 :.01.2021

## 1. Identification of the substance / preparation and of the company

Product details T6052 51 Soldering Wire 1mm 500g Reel

T6052 52 Soldering Wire 2mm 500g Reel

Trade name: ISO-Core "RA", lead free,

S-Sn97Ag3, S-Sn96Ag4 (Sn96,5Ag3,5),

S-Sn97Cu3, S-Sn99Cu1 (Sn99,3Cu0,7),

S-Sn96Ag3Cu1 (Sn96,5Ag3Cu0,5),

S-Sn95Ag4Cu1 (Sn95,5Ag3,8Cu0,7)

· Application of the substance / the preparation

Brazing alloy

Soldering flux

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email [sales@cki.uk.com](mailto:sales@cki.uk.com)

**Information in case of emergency:**

Not necessary, due to the fact that the product does not need to be labelled.

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## 2. Hazards identification:

**Hazard description:** Not applicable.

· **Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **GHS label elements**

Contains Rosin. May produce an allergic reaction.

Safety data sheet available on request


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## 3. Composition/information on ingredients Composition

### Chemical characterization

**Description:** Mixture: consisting of the following components

CAS: 7440-22-4 EINECS: 231-131-3	silver <10%		<10%
CAS: 7440-50-8 EINECS: 231-159-6	copper		<10%
CAS: 8050-09-7 EINECS: 232-475-7	Rosin	Xi; R 43  Warning: 3.4.S/1	<1%

**Additional information:** For the wording of the listed risk phrases refer to section 16.

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## 4. First aid measures:

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
After contact with the molten product, cool rapidly with cold water. Do not pull solidified product off the skin.  
Seek medical treatment.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Induce vomiting, if person is conscious. Seek medical help. Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

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## 5. Fire fighting measures:

- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions. CO<sub>2</sub>, sand, extinguishing powder.  
Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Protective equipment:** Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.

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## 6. Accidental release measures:

- Person-related safety precautions:** Not required.
- Measures for environmental protection:** No special measures required.
- Measures for cleaning/collecting:** Allow to solidify. Pick up mechanically.

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Ensure adequate ventilation.

**Additional information:** No dangerous substances are released.

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## 7. Handling and storage:

**Information for safe handling:** Ensure good ventilation/exhaustion at the workplace. Extractors are required on all machines used for thermal processing or splinter removal processes.

· **Information about fire - and explosion protection:** Keep respiratory protective device available.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:**

Do not store together with oxidizing and acidic materials.

Do not store together with alkalis (caustic solutions).

· **Further information about storage conditions:** Store in dry conditions.

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## 8. Exposure controls / personal protection:

**Personal protection:**

**Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

**7440-22-4 silver** WEL Long-term value: 0.1 mg/m<sup>3</sup>

**7440-50-8 copper**WEL Short-term value: 2\*\* mg/m<sup>3</sup> Long-term value: 0.2\* 1\*\* mg/m<sup>3</sup>

\*fume \*\*dusts and mists (as Cu)

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:**

Suitable respiratory protective device recommended. Filter P2



· **Protection of hands:**

Protective gloves - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Leather gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality

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and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material** - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

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## 9. Physical and chemical properties:

### General Information

**Form:** Solid

**Colour:** Silver grey

**Odour:** Odourless

### Change in condition

**Melting point/Melting range:** Not applicable

**Boiling point/Boiling range:** Undetermined.

**Flash point:** Not applicable.

**Self-igniting:** Product is not self-igniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Vapour pressure at 20°C:** < 1 hPa

**Density:** Not applicable

**Solubility in / Miscibility with water:** Insoluble.

### Solvent content:

**Organic solvents:** 0.0 %

**Solids content:** 100.0 %

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## 10. Stability and reactivity:

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

· **Materials to be avoided:**

· **Dangerous reactions** Reacts with acids, alkalis and oxidizing agents.

· **Dangerous decomposition products:** Possible in traces.

## 11. Toxicological information:

**Acute toxicity:**

**Primary irritant effect:**

**On the skin:** No irritant effect.

**On the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:** The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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## 12. Ecological information:

**General notes:** The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary

Generally not hazardous for water

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## 13. Disposal considerations:

**Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue** 17 04 07 mixed metals

**Uncleaned packaging:** Disposal must be made according to official regulations.

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## 14. Transport information:

**Land transport ADR/RID (cross-border)- ADR/RID class: -- Maritime transport IMDG:**

**IMDG Class: - Marine pollutant:** No

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class: -**

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## 15. Regulatory information:

### Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous

Materials (German GefStoffV). Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

### · Special labelling of certain preparations:

Contains Rosin. May produce an allergic reaction.

Safety data sheet available for professional user on request.

### Hazard symbol:

Application restrictions: -

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## 16. Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any

specific product features and shall not establish a legally valid contractual relationship.

**Relevant R-phrases** 43 May cause sensitisation by skin contact.

**Contact:** Ian Depledge- Quality and Environment mgr

### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

· \* **Data compared to the previous version altered.**