



SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

RS leadfree 3% silver No Clean Solder wire

Revision 1

Revision date 2015-06-10

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	RS leadfree 3% silver No Clean Solder wire
CAS No.	65997-05-9
EC No.	500-163-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Description	Soldering.
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1.3. Details of the supplier of the safety data sheet

Company	RS Components Ltd
Address	Birchington Road Corby Northants NN17 9RS
Telephone	+44(0)1536 402888
Fax	+44(0)1536 401588
Email	technical.help@rs-components.com

1.4. Emergency telephone number

Emergency telephone number	+44(0)1536 402888 8 am - 8pm Mon-Fri
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 67/548/EEC	T; R48/23 Symbols: Xn: Harmful.
Main hazards	May cause sensitisation by inhalation and skin contact.
2.1.2. Classification - EC 1272/2008	Acute Tox. 4: H302+H312; Skin Sens. 1: H317; Resp. Sens. 1: H334; STOT SE 3: H335;

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin. Skin Sens. 1: H317 - May cause an allergic skin reaction. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3: H335 - May cause respiratory irritation.
Precautionary Statement: Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling.

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2.2. Label elements

Precautionary Statement: Response	P270 - Do no eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P285 - In case of inadequate ventilation wear respiratory protection. Rosin: Caution: exposure to this material may cause certain sensitive individuals to develop eczema and/or asthma. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.
	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. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
	This material and its container must be disposed of in a safe way.
Precautionary Statement: Storage	
Precautionary Statement: Disposal	

SECTION 3: Composition/information on ingredients

3.1. Substances

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Modified Rosin		65997-05-9	500-163-2	01-2119964093-37	0-10%	T; R48/23
Tin		7440-31-5	231-141-8	01-2119486474-28	90-100%	
Copper (Copper fume)		7440-50-8		01-2119480154-42	0-1%	Xn; R22 R53
Silver (Silver, metallic)		7440-22-4	231-131-3	01-2119555669-21	0-5%	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Modified Rosin		65997-05-9	500-163-2	01-2119964093-37	0-10%	Acute Tox. 4: H302+H312; Skin Sens. 1: H317; Resp. Sens. 1: H334; STOT SE 3: H335;
Tin		7440-31-5	231-141-8	01-2119486474-28	90-100%	
Copper (Copper fume)		7440-50-8		01-2119480154-42	0-1%	Acute Tox. 4: H302; Skin Irrit. 2: H315; STOT SE 3: H335; Aquatic Acute 1: H400;
Silver (Silver, metallic)		7440-22-4	231-131-3	01-2119555669-21	0-5%	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Move the exposed person to fresh air. Seek medical attention.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Wear suitable protective equipment.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Copper (Copper dusts and mists (as Cu))	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2
Copper (Copper fume)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 0.2
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
Modified Rosin	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 0.05
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 0.15
Silver (Silver, metallic)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 0.1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

Wear chemical protective clothing.

Eye / face protection

Approved safety goggles.

Skin protection - Handprotection

Chemical resistant gloves (PVC).

Respiratory protection

Self-contained breathing apparatus. Wear protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

State	Solid
Colour	Grey
Melting point	217 - 219 °C
Boiling point	197 °C
Flash point	> 98 °C
Autoignition temperature	226 °C
Solubility	Immiscible in water

SECTION 10: Stability and reactivity

10.2. Chemical stability

Stable under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 12: Ecological information

12.3. Bioaccumulative potential

Does not bioaccumulate.

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

ADR/RID

The product is not classified as dangerous for carriage.

IMDG

The product is not classified as dangerous for carriage.

IATA

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

This Product is Classified to Regulation 1272/2008/EC(CLP).

SECTION 16: Other information

Other information

Text of risk phrases in Section 3

R22 - Harmful if swallowed.
R42/43 - May cause sensitisation by inhalation and skin contact.
R53 - May cause long-term adverse effects in the aquatic environment.

Text of Hazard Statements in Section 3

Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT SE 3: H335 - May cause respiratory irritation.
Acute Tox. 4: H302 - Harmful if swallowed.
Skin Irrit. 2: H315 - Causes skin irritation.
Aquatic Acute 1: H400 - Very toxic to aquatic life.

Further information

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

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Further information

	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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