



# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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## RS-Lead Free 3%Ag.No Clean Solder Wire

Revision 3

RS REACH v2 revision date 01/\$) #/£

Revision date 2012-05-15

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

#### 1.1. Product identifier

Product name	RS-Lead Free 3%Ag.No Clean Solder Wire
Product code	RS756-8875,756-8884,756-8897,756-8913

#### 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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#### Further information

Intended use	Soldering.
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Main hazards	No Significant Hazard
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#### 2.3. Other hazards

Other hazards	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. May cause allergic skin reactions with repeated exposure. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.
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#### Further information

	Contains rosin. May produce an allergic reaction. Safety data sheet available for professional user on request.
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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

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## 3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Tin		7440-31-5	231-141-8		90 - 100%	
Mod Rosin (Rosin-based solder flux fume)		65997-05-9	500-163-2		1 - 5%	Xi; R43
Copper (Copper fume)		7440-50-8			0.5 - 1%	Xn; R22 R53
Silver (Silver, metallic)		7440-22-4	231-131-3		2.5-3.5%	

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	May cause irritation to mucous membranes. Move the exposed person to fresh air.
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. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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## 5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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## 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area.
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## 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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## 6.3. Methods and material for containment and cleaning up

	Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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## 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.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
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## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1. Exposure Limit Values

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## 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: -
Mod Rosin (Rosin-based solder flux fume)	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. Appropriate local exhaust ventilation is required. P285 - In case of inadequate ventilation wear respiratory protection. The Air should be drawn away from the personnel using this product.
8.2.2. Individual protection measures	Wear protective clothing.
Eye / face protection	In case of splashing, wear: Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State	Solid
Colour	Grey
Melting point	217 - 219 °C
Relative density	8 (Water = 1 @ 20 °C)
Solubility	Slightly soluble in water

## SECTION 10: Stability and reactivity

## 10.2. Chemical stability

	Stable under normal conditions.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	Irritating to eyes.
Respiratory or skin sensitisation	May cause sensitisation by inhalation and skin contact.

## SECTION 12: Ecological information

## 12.1. Toxicity

Mod Rosin	Daphnia EC50/48h: 0.009 mg/l	Fish LC50/96h: 0.003 mg/l
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## 12.2. Persistence and degradability

	Not readily biodegradable.
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## 12.3. Bioaccumulative potential

	Not determined.
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## SECTION 13: Disposal considerations

## General information

	Dispose of in compliance with all local and national regulations.
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**SECTION 14: Transport information**

## Further information

The product is not classified as dangerous for carriage.

**SECTION 15: Regulatory information**

## Labelling

## Risk phrases

No Significant Hazard.

**SECTION 16: Other information**

## Other information

## Revision

This document differs from the previous version in the following areas:.

8 - 8.2.1. Appropriate engineering controls.

Text of risk phrases in  
Section 3

R22 - Harmful if swallowed.

R43 - May cause sensitisation by skin contact.

R53 - May cause long-term adverse effects in the aquatic environment.

## 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 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.