

## Safety Data Sheet

Regulation 1907/2006/EC, Article 31 REACH  
Issue Number 2, Revision Date: January 2019  
No. of pages 5

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

#### 1.1. Product Identifier

Product Name SK SAC305 Lead Free Solid Solder Wire  
(RoHS Compliant/Reach Compliant) No SVHC's

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

Description A lead free solid solder wire

#### 1.3. Details of the supplier of the safety data sheet

Company Solderking Assembly Materials Limited  
Address Unit 5D  
Lancaster Road  
Carnaby Industrial Estate  
Bridlington  
YO15 3QY  
Web www.solderking.com  
Telephone 01262 363088  
Email info@solderking.com  
Email of competent person info@solderking.com

#### 1.4. Emergency telephone number

01262 363088

### SECTION 2: Hazards Identification

#### 2.1. Classification of the mixture

##### Main Hazards

Molten Metal Can cause burns and damage to skin.

##### Label Elements EC 1272/2008

Classification Not classified

GHS Symbols Not classified

Hazard Statements	Precaution Statements
Molten metal can cause burns.	P302+P352: IF ON SKIN, Wash with plenty of soap and water.

### SECTION 3: Composition & Information on Ingredients

#### 3.1. This material is defined as a mixture

Chemical Name	CAS No	EC No.	REACH Registration Number	Conc. (%w/w)
Tin	7440-31-5	231-141-8	01-2119486474-28-xxxx	90-100
Silver	7440-22-4	231-131-3	01-2119555669-21-xxxx	3
Copper	7440-50-8	231-159-	01-2119480154-xxxx01-	<1

Acute Tox. 4: H302; Skin Irrit. 2: H315;  
STOT SE 3: H335; Aquatic Acute 1:  
H400;

## Alloy Table

Alloy Table- please refer to your alloy supplied

Alloy Name	Alloy Breakdown	Melting Temperature °C
SAC305	Sn96.5Ag3Cu0.5	217-219

Key: Sn-Tin, Ag-Silver, Cu-Copper

\*Features anti-oxidant technology

### SECTION 4: First Aid Measures

#### 4.1. Description of first aid measures

Inhalation	Inhalation of solder fume (at normal use temperatures) may cause respiratory distress. Remove at once to fresh air. Keep warm and at rest. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If not breathing, give artificial respiration. If unconscious place in the recovery position and get medical attention immediately.
Eye contact	Avoid molten metal.
Skin contact	Wash off with soap and plenty of water. After contact with molten metal, flood the area with cold water and get medical attention if required.
Ingestion	Rinse the mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. If unconscious place in the recovery position. Obtain medical attention immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.
Eye Contact	May cause irritation to skin.
Skin Contact	May cause irritation to sensitive individuals.
Ingestion	Do not eat.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Seek medical attention if any symptoms persist

### SECTION 5: Firefighting Measures

#### 5.1. Extinguishing Media

Use extinguishing media appropriate to the surrounding fire conditions. Water spray, dry chemical or carbon dioxide. Sand may be used for small fires.

#### 5.2. Special hazards arising from the substance or mixture

None

#### 5.3 Advice for Fire Fighters

Do not use water jet. Wear self contained breathing apparatus operating in the positive pressure mode.

### SECTION 6: Accidental Release Measures

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

Use personal protective equipment. Avoid inhalation of any fume from the hot solder. Avoid contact with hot product. Ensure adequate ventilation of the working area.

#### 6.2. Environmental precautions

Ensure solder is collected in suitable containers for disposal accordance with local and national legislation. Refer to section 13 for disposal.

#### 6.3. Methods and material for containment and cleaning up

Keep in suitable closed containers for disposal. Observe personal hygiene methods.

#### 6.4. reference to other sections

See section 2,8,13 for further information

### SECTION 7: Handling and Storage

#### 7.1. Precautions for safe handling

Wash hands with soap and warm water after handling soldering products. Adopt best manual handling considerations when handling, carrying and dispensing. Keep out of reach of children.

#### 7.2. Precautions for safe storage, including and incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Keep away from direct sunlight. Keep away from food and drink.

#### 7.3. Specific end use(s)

Solder wire for soldering

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Exposure Limit Values

Tin	2 mg/ m <sup>3</sup> 8 hour Time Weighted Average, UK EH40
Silver	0.1 mg/ m <sup>3</sup> 8 hour Time Weighted Average, UK EH40
Copper	0.2mg/m <sup>3</sup> 8 hour Time Weighted Average, UK EH40

## 8.2. Exposure Controls

### 8.2.1 Appropriate engineering controls

To achieve adequate control, as required by the COSHH Regulations, extraction should be used to reduce exposure. Extraction should be properly maintained and in good working order. Please use health and safety guidelines to choose suitable extraction.

### 8.2.2. Individual protection measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

#### Eye/face protection

Ensure that eye wash stations are close to the work area.

#### Skin / Hand protection

Wear protective clothing. Disposable vinyl gloves.

Use safety goggles.

No data available

The material possesses minimal risk to the environment.

Protective Gloves should be worn.

#### Biological Standards

The material possesses minimal risk to the environment.

#### Environmental exposure controls



## SECTION 9: Information on basic physical and chemical properties

State	Solid wire
Colour	Grey
Odour	Mild
pH	No data available
Melting point	See section below for individual alloys
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability limits	Not available
Vapour flammability	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Fat solubility	Not available
Partition coefficient	Not available
Autoignition temperature	Not available
Viscosity	Not available
Solubility	Insoluble in water

### 9.2. Other Information

Conductivity	No data available
Surface Tension	No data available
Gas group	No data available

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No data available on this product

### 10.2. Stability

### 10.3. Possibility of Hazardous Reactions

None

### 10.4. Conditions to avoid

None

### 10.5.Incompatible Materials

Strong oxidizing agents

### 10.6 Hazardous Decomposition Products

Under normal conditions of use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

Inhalation	No further information available
Ingestion	No further information available
Skin Contact	No information available.

Eye contact	No information available
Target Organs	No data available.
Germ cell mutagenicity	No data available
Carcinogenicity	

## SECTION 12: Ecological Information

### 12.1. Toxicity

No Data available

### 12.2. Persistence and degradability

No Data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

## SECTION 13: Disposal Considerations

### General Information

Dispose of in compliance with all local and national regulations. The product container must be disposed of in a safe way.

### Disposal methods

Dispose of in a safe manner

### Disposal and Packaging

For disposal with the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

06 04 05 Wastes containing other heavy metals. Hazardous waste.

### Further Information

## SECTION 14: Transport Information

Hazard Pictograms	Not hazardous for transportation.
-------------------	-----------------------------------

Not hazardous for transport

### 14.1. UN Number

-

### 14.2. UN Proper Shipping Name

-

### 14.3. Transport Hazard Class

ADR/RID

-

Subsidiary risk

-

IMDG

-

Subsidiary risk

-

IATA

-

Subsidiary risk

-

### 14.4. Packing Group

Packing Group

-

-

### 14.5. Environmental Hazards

Environmental hazard	No
----------------------	----

Marine Pollutant	No
------------------	----

ADR/RID

Hazard ID

-

Tunnel Category

-

IMDG

Ems Code

-

IATA

Packing Instruction (Cargo)

-

Maximum quantity

-

Packing Instruction (Passenger)

-

Maximum quantity

-

**SECTION 15: Regulatory Information**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

**SECTION 16: Further Information**

This product is Reach and RoHS compliant.

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 related 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.

Contact [info@solderking.com](mailto:info@solderking.com) if you have any questions or queries regarding this product.