

Trade-name: Solder-wire KS100 FLOWTIN ® TSC

Date of issue: 01.04.2006

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## 1. Chemical Identification

Trade-name: Solder wire KS100 FLOWTIN ® TSC

Manufacturer: Stannol GmbH  
Oskarstr.3-7  
42283 Wuppertal  
Phone.: 0202 / 5850 sec.phone:-0202 / 585119

Phone: 0202 / 585118

## 2. Composition/Information of Ingredients

Chemical characteristic: Tin-Silver-Copper alloy (with &lt;1% other iron-metals) with max. 3,5% rosin

### Ingredients

Proportion	CAS-No.	Symbols	Risk-Phrases	Chemical name
remainder	7440-31-5			Tin
3,6-4,0%	7440-22-4			Silver
0,6-0,8%	7440-50-8			Copper
<3,5%				Modified rosin

## 3. Hazards Identification:

Not a composition for the purposes of the Dangerous Substances Regulations, but nevertheless observe items 4-16

## 4. First Aid Measures:

**General :** If casualty is unconscious but breathing, place in the recovery position. If breathing has stopped apply artificial resuscitation or give oxygen by mask

**Inhalation** : Remove patient to fresh air. If irritation persists, obtain medical attention.

**Skin Contact :** If any skin irritation develops seek medical attention

**Eye Contact:** Flush **immediately** with plenty of water. In cases where spitting flux has entered the eye seek medical attention.

**Ingestion:** seek medical attention.

**Hints for doctors** : Inhalation of the flux fumes given off at soldering temperatures will irritate the nose, throat and respiratory system. Repeated or prolonged exposure to flux fumes may cause shortness of breath and cough..

**Treatment:** Decontamination, symptomatic treatment.

**General :** If casualty is unconscious but breathing, place in the recovery position. If breathing has stopped apply artificial resuscitation or give oxygen by mask

**Inhalation** : Remove patient to fresh air. If irritation persists, obtain medical attention.

**Skin Contact :** If any skin irritation develops seek medical attention

## 5. Fire Fighting Measures

**Extinguishing Media:** Use extinguishing media appropriate to surrounding fire con

**Special Fire-fighting Procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6. Accidental Release Measures:

Pick up and place in appropriate container

## 7. Handling and Storage:

The fumes produced during soldering should be extracted away from the breathing zone of the operators. Ensure the area is well ventilated. Wash hands with soap and warm water after handling, particularly before eating, drinking or smoking. The product should be stored in a cool, dry area.

# EU-Material-safety-data-sheet according to 91/155/EWG

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## 8. Exposure Controls / Personal Protection:

Local exhaust or dilution ventilation and control of process conditions are suitable methods.

**TLV of TRGS 900 see Capitel 2**

Substance	CAS-No	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	Art
Tin	7440-31-5		2	MAK (NL)
Silver	7440-22-4		0,1	MAK(DFG)
Copper	7440-50-8		1	MAK (DFG)

**Respiratory Protection:** If concentrations are over the exposure limit, use a supplied air respirator.

**Hand Protection:** : Use heat resistant gloves if required.

**Eye Protection:** Operators should wear goggles

## 9. Physical and Chemical Properties

**Appearance and Odour:** Tin-Silver CopperSolder

**Melting Point:** 217 °C

**Vapour Pressure:** n.a.

**Density(20°C):** 7-8 g/cm<sup>3</sup>

## 10. Stability and Reactivity:

**Dangerous reactions:** Possible with oxidising agents.

**Hazardous combustion or decomposition products:** none

## 11. Toxicological Information

**Acute Effects:**

None toxic metal.

## 12. Ecological Information:

No effect to environment known

## 13. Disposal Considerations:

Contact a licensed professional waste disposal service to dispose of this material.

Observe all federal, state and local environmental regulations. Collect metal for recycling

## 14. Transport Information:

**GGVS/ADR/RID:** The product is not classified as hazardous for transport

## 15. Regulatory Information:

Not subject to current legislation

## 16. Other Information:

**Cause of modification:**

General revision

**Other information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide..

**Safety data-sheet is written by:**

Save of quality/laboratory

**Contact - person:**

Dr. W. Kruppa

C