

# EC Safety Data Sheet according to Directive 1907/2006

Trade name: Solder-FLOWTIN® TSC

Date of issue: 22.03.2008

Revised on: 23.11.2011

Date of print: 25.11.2011

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## 1. Name of product, characterization and company name

### Information on the product

Trade name: Solder FLOWTIN® TSC

Usage of the product / preparation for soft soldering

### Identification of the manufacturer / supplier

Address: Stannol GmbH  
Oskarstr. 3 -7  
42283 Wuppertal

Phone: 0202 585 0  
Fax: 0202 585 155  
Emergency call: 0202 585 119 (only during trading hour ( 8:00 h – 17:00 h)  
E-mail: werner.kruppa@stannol.de

## 2. Possible hazards:

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

## 3. Composition/Information on the components

Chemical characterization: Tin-Silver-Copper alloy (with <0,1 % other iron-metals)

### Composition according to EC 1907/2006:

Contents	CAS No.	EINECS No.	Symbols	R-phrases:	Substance
0,6-0,8%	7440-50-8	231-159-6			copper
3,6-4,0%	7440-22-4	231-131-3			silver
remainder	7440-31-5	231-141-8			tin

The wording of the R-phrases stated is indicated in Section 16

## 4. First Aid measures

### General information:

If casualty is unconscious but breathing, place in the recovery position.  
If breathing has stopped apply artificial resuscitation or give oxygen by mask  
Remove patient to fresh air. If irritation persists, obtain medical attention.

### After inhalation:

If any skin irritation develops seek medical attention

### After skin contact:

### After eye contact:

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

### After ingestion:

Rinse mouth immediately and drink plenty of water. Seek medical advice.

### 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..

### Physician's information

### Treatment:

Decontamination, treatment of symptoms.

## 5. Fire fighting measures

### Suitable extinguishing media:

Use extinguishing media appropriate to surrounding fire conditions

### Special protective equipment for fire fighting

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.

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## 8. Exposure controls and personal protection

### Additional information on system design:

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

### Substances with limit values to be monitored at the working place:

#### Danger to health at the working place:

Peak limit category:

### Working place limit values according to TRGS 900 from Section 2 for Germany:

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

**Skin resorption / Sensitization: Skin resorption ----**

**Sensitization: ----**

### General protection and hygiene measures

Avoid direct contact with eyes, the skin and clothing.

### Personal protection

#### 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

#### Personal protection:

Light protective clothing

## 9. Physical and chemical properties

**Form:** Form: Tin-Copper Silver Solder

Colour:silver

**Melting Point:** 217 °C

**Vapour Pressure:** n.a.

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

## 10. Stability and reactivity

**Reaction with substances:** Possible with oxidising agents.

**Hazardous combustion or decomposition products:** none

## 11. Toxicological information

The toxicological classification of the product is based on the results of the calculation procedure of the general preparation directive 1999/45/EC.

### Acute Effects:

None toxic metal.

## 12. Ecological information

**General information:** No effect to environment known

## 13. Disposal considerations

### Disposal information

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

**Further information:** Observe all federal, state and local environmental regulations. Collect metal for recycling

**Waste identity number:** Waste identity number EAK-code: 120104

## 14. Transport information

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

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### **15. Legal regulations:**

Labelling information:

**The product is classified and labelled according to the EC Directives.**

Water hazard class:

Not subject to current legislation

Classification according to the TA Luft:

WGK 1 (weakly water-endangering)

Ingredients:

Organic materials class III; whole-carbon-concentration: Max. acceptable

Emission 50 mg/m<sup>3</sup> (mass-flow-rate  $\geq$  0,5 kg/h)

Tin, silver, copper

### **16. Further information**

R-phrases point 3: -----

n.a. not applicable

n.k. not known

**Other information**

This statement is based on our current knowledge and offers no assurance of product properties.

**Department issuing the data sheet**

Stannol GmbH/Quality Assurance/Laboratory

**Contact person**

Dr. Kruppa