

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

Trade-Name: Solder Wire HS10 Sn60Pb40

Date of issue:20.10.2003

Revised :13.09.2006

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## 1. Chemical Identification

Trade-name: **Solder Wire HS10 Sn60Pb40**

Manufacturer: Stannol GmbH  
Oskarstr.3-7  
42283 Wuppertal  
Phone.: 0202 / 5850 2.Phone:-0202 / 585119

Phone: 0202 / 585118

## 2. Composition/Information of Ingredients

Chemical characteristic: Tin/Lead/Silver–alloy with flux max. 3,5 % rosin; halide activated

### Ingredients:

Proportion	CAS-No.	Symbols	Risk-Phrases	Chemical name
59,5-60,5%	7440-31-5			Tin
remainder	7439-92-1			Lead
<3,5%	8050-09-7	Xi	43	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.

## 5. Fire Fighting Measures

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

**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( soldering vapours) 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.

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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-N0	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	Art
Tin	7440-31-5		2	MAK (NL)
Lead	7439-92-1		0,1	MAK (TLV)

BAT-Value	Lead/blood level:	700µg/l,
	Women below 45 years:	300µg/l

**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:	Solid and odourless
Colour:	grey
Melting Point:	>183 °C
Boiling point of lead:	1735°C
Vapour Pressure:	n.d. Lead at 328°C
Density(20°C):	8,2-9,3 g/cm <sup>3</sup>

## 10. Stability and Reactivity:

Dangerous reactions:	Possible with oxidising agents.
Hazardous combustion or decomposition products:	Lead-oxides possible

## 11. Toxicological Information

### Acute Effects:

Acute intoxication by ingestion of skin contact with lead is improbable. High doses nevertheless lead to symptoms of poisoning. Inhalation of fumes can irritate the respiratory tract and eyes..

### Contamination trough skin contact and inhalation:

All following items refer to pure lead

### Acute Toxicity

Type	Value in mg/Kg	Form	Species
LD.LO	160	oral	pigeon
LD.LO	1000	ip	rat

LD.LO (oral, pigeon): 160 mg/kg; TD.LO (oral, woman): 450 mg/kg (damage to nervous system); LD.LO (ip., Rat): 1000 mg/kg; TC.LO (inhal., human): 10 mg/m<sup>3</sup> ;

## 12. Ecological Information:

Lead and combinations of lead are not biological reducible.

## 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:

### German regulations:

TRGS:	505 Lead
TRGS:	900 MAK
TA-Air:	KL III

Not subject to current legislation

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### **16. Other Information:**

**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