



Safety data sheet/ EG-Sicherheitsdatenblatt

Date of establishment: 17.12.02  
Revision date: 22.03.05

Product/ Product group: **Soldering wire 60 %**

**1.1 Substance/Preparation and Company Name**

**1.2 Information on the product**

**1.3 Information on manufacturer/Supplier**

Supplier: **Tiffany Glaskunst GmbH**  
Street: **Helleforthstr. 18-20**  
UIP Code/town: **D-33758 Schloß Holte Stukenbrock**  
Tel.: **+49 5207 91280**  
Fax.: **+49 5207 912840**  
e-mail: **tgk@tgk.de**  
Internet: **http://www.tgk.de**

Telephone number in emergency cases: 05207-9128-0

**2. Composition/Information on Ingredients :**

**Chemical characteristics:**

Content Weight (%)	CAS-No	Symbol-Substance
(1) 39,5-40,5	7439-92-1	Pb (Lead)
(2) 59,5 – 60,5	7440-31-5	Sn (Tin)

**3. Possible hazards:**

This is an article, not a chemical composition, nevertheless for safety reasons refer to all following items.

**4. First Aid Measures:**

If casualty is unconscious but breathing, place in 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.

**Eye contact:**

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

**Skin contact:**

If any skin irritation develops seek medical attention.

**Ingestion:**

Seek medical attention.

**Information for the doctor:**

Inhalation of 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:**

**Appropriate extinguishing media:**  
Suitable dry chemical, carbon dioxide, water spray or foam.  
Use extinguishing media appropriate to surrounding conditions.

**Special protection equipment for fire fighting:**  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Emits toxic fumes under fire conditions.

**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. Avoid inhaling the flux fume. Wash hands with soap and warm water after handling, particularly before eating, drinking or smoking. The product should be stored in a dry area.

**8. Expose controls and personal protection:**  
Extraction should be provided to control exposure to flux fumes. Suitable examples include bench top, soldering iron tip extraction or an extraction arm.

**Ingredients with limit values on working place which have to be controlled:**

Substance	CAS.Nr.	Mg/m <sup>3</sup>	Art
Lead	7439-92-1	0,1	MAK (DFG)
Tin	740-31-5	2	MAK (NL)

**Respiratory protection:**  
Necessary if there is a risk of exposure to high concentration fumes.

**Hand protection:**  
Any gloves are recommended.

**Eye protection:**  
Operators should wear goggles.

**9. Physical and chemical properties:**

- **Form:** solid
- **Colour:** silver-white to grey alloy wire
- **Odour:** odourless
- **pH-value oder range of the substance:** not applicable
- **pH-value of the substance in solution:** not applicable
- **Conc. f. pH value of the substance in solution:** not applicable
- **Melting point/Melting range (in °C):** 183 - 190° C (alloy)
- **Flaming point:** not applicable
- **Specific gravity:** > 8.5 g/ml (alloy)

**10. Stability and reactivity:**

**Products to avoid:**  
reacts with oxidating agents.

**Hazardous combustion or decomposition products:**  
Lead-oxides possible

**11. Toxicological information:**

**Acute effects:**

Acute intoxication by ingestion or 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 through 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
TD.LO	450	Oral	Woman (damage to nervous system)
TC.LO	10 mg/m <sup>3</sup>	Inhal	Human (damage to intestinal system)

**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 the material. Observe all federal, state and local environment regulations. Collect metal for recycling.

**14. Transport information:**

The product is not classified as hazardous for transport.

**15. Regulatory information:**

Solder wire is not subject to the regulations for dangerous substances. Dangerous Substance Directive 67/548/EEC as amended by Directive 92/32/EEC. Dangerous Preparations Directive 88/379/EEC as amended by Directive 90/492/EEC. Directive 80/1107/EEC on the protection of workers from the risk related to exposure to physical, chemical and biological agents at work.

**16. Additional Information:**

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.