



Safety data sheet/ EG-Sicherheitsdatenblatt

Date of establishment: 17.12.02
Revision date: 22.03.05

Product/ Product group: **Soldering tin 50 %**

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) 49,5-50,5	7439-92-1	Pb (Lead)
(2) 49,5-50,5	7440-31-5	Sn (Tin)

3. Possible hazards:

Not a hazardous composition according to current legislation, nevertheless the following items must be regarded.

4. First Aid Measures:

Inhalation:

Remove patient to fresh air. If not breathing give artificial respiration, if breathing is difficult, give oxygen.

Eye contact:

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

5. Fire fighting measures:

Appropriate extinguishing media:

This material is not flammable.
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 product should be stored in a dry area. When molten solder is in use, avoid temperatures above 500° C.

8. **Expose controls and personal protection:**
Local exhaust and control of process conditions are suitable methods when dust, fumes and vapours are developed. Where engineering controls and work practices are not effective in controlling exposure then suitable respiratory protective equipment should be used.

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

Substance	CAS.Nr.	Mg/m ³	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 or a face shield when handling liquid solder or at any other time where there is a risk of splashing.

Do not eat, drink or smoke. Before breaks and after work wash hands carefully.

9. **Physical and chemical properties:**

- **Form:** solid
- **Colour:** metallic
- **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):** >180° C
- **Flaming point:** not applicable
- **Specific gravity:** > 8.2-9.3

10. **Stability and reactivity:**

Products to avoid:
reacts with oxidating agents strong acids and bases

Hazardous combustion or decomposition products:
No thermal deconposition under normal conditions of use. When the product is converted into dust, formation of lead-oxides possible

11. **Toxicological information:**

Acute effects:
Acute intoxication by ingestion or skin contact with lead is improbable. There is a risk on high doses. Long-term effects occur on inhalation of metal vapours (melts >500°C) or metal dust.
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 ³	Inhal	Human (damage to intestinal system)

12. **Ecological information:**
Heavy metals and their compounds are not biodegradable.
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:**
Classification and labelling according to EU Regulation:
This product is not classified as hazardous material.
Germany:
Classification to TA Luft:
Dust, inorganic materials, Class III, Max. allowed emissions: 5 mg/m³
(Massenstrom \geq 25 g/h)
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.