



Safety data sheet/ EG-Sicherheitsdatenblatt  
Date of establishment: 20/01/03  
Revision date: 31/03/05

Product/ Product group: **Soldering paste**

### 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:**

Emulsion consisting of mineral fats with a watery solution of zinc and ammonium chloride

<i>Dangerous ingredients</i>	<i>Classification</i>	<i>Weight %</i>	<i>CAS-No.:</i>
Zinc chloride	c-corrosive N-dangerous for the environment	< 5.0	7646-85-7
Ammonium chloride	Xn-dangerous for the health	< 1.0	12125-02-9

## 3. **Possible hazards:**

Irritates skin and eyes.

## 4. **First Aid Measures:**

### **Inhalation:**

Fresh air. Seek medical attention.

### **Eye contact:**

Rinse immediately with plenty of water with opened palpebral fissure for at least 10 minutes. Seek medical help immediately.

### **Skin contact:**

Wash away with plenty of water. Remove contaminated clothing immediately.

### **Ingestion:**

Drink plenty of water. Avoid vomiting (danger of perforation). Seek medical help immediately.

**5. Fire fighting measures:**

**Appropriate extinguishing media:**

Carbon dioxide, foam, extinguishing powder.

**Unadequate extinguishing media for safety reasons:**

Water.

**Special hazards by the material or the composition, its combustion products or generated gases:**

In case of fire, noxious fumes can be generated (chlorine, HCl and carbon monoxide)

**Special protection equipment for fire fighting:**

Independent respiratory protection device.

**6. Accidental release measures:**

**Personal precaution measures:**

Avoid skin contact.

**Environmental protection measures:**

Do not let pass into canalisation.

**Measures for cleaning up/absorbing**

Take mechanically up with appropriate binding agent, pass on to waste disposal.

**7. Handling and storage:**

**Handling:**

**Information for secure handling:**

Provide for good room ventilation. Adhere to instructions on label..

**Storage:**

**Requirements for storage rooms and containers:**

Store containers firmly locked in dry and well ventilated place.

**Requirements for fire and explosion protection measures:**

No special requirements.

**8. Expose controls and personal protection:**

**Requirements for the design of technical plants:**

Use exhaustion device.

**Personal protection equipment:**

**Hand:**

*Material:*

Nitril

e.g. KCL-dermatril (740)

Permeation time: 480 min.

*Material:*

Butyl

e.g.

KCL-butoject (898)

Permeation time: 480 min.

**Eyes:**

Protection goggles.

**Body:**

Appropriate working clothes

**9. Physical and chemical properties:**

▪ <b>Form:</b>	pasty
▪ <b>Colour:</b>	light yellow
▪ <b>Odour:</b>	odourless
▪ <b>pH-value (watery extract 20 %):</b>	6,1
▪ <b>Boiling point/Boiling range (in °C):</b>	--
▪ <b>Melting/Melting range (in °C):</b>	ca. 55° C
▪ <b>Flaming point:</b>	> 150° C
▪ <b>Specific gravity at 20°C:</b>	ca 1 g/cm <sup>3</sup>
▪ <b>Solubility in water:</b>	--
▪ <b>Explosion danger:</b>	--
▪ <b>PH-value</b>	6.1
▪ <b>Vapour pressure:</b>	> 0,01 mbar
▪ <b>Viscosity at 100° C:</b>	7,0 x 9,0 mm <sup>2</sup> /s DIN 51562

**10. Stability and reactivity:**

**Conditions to avoid:**

Long-term storage time at temperatures above 25° C (quality deterioration)

**Products to avoid:**

Avoid contact with strong oxidating agents.

**Dangerous decomposition products**

In case of uncomplete combustion: formation of fume and carbon monoxide.

**Thermic decomposition:**

> 300°C

**11. Toxicological information:**

**Information on irritating effects:**

Irritates eyes and mucous membranes.

**Ingestion:**

After ingesting greater quantities zinc chloride, blood pressure decrease, circulatory disturbances.

**12. Ecological information:**

**Concerns zinc chloride:**

Is not biologically degradable

Acute fish toxicity: 0,1 – 1 g/l zinc chloride

Fish toxicity limit: 0,1 - 2 mg/l zinc

**13. Disposal considerations:**

**For the material/residues**

**Recommendation:**

Residue is special waste and has to be passed on to an appropriate waste disposal pit according to special waste legislation.

Waste code no (AVV): 060313

Designation (AVV): solid salts and solutions containing heavy metals

Group (AVV): Waste derived from salts, salt solutions and metal oxides

Disposal method: chemical/physical treatment plant

**For contaminated packing:**

According to official regulations.

**14. Transport information:**

**Dangerous good according to transport regulations:** NO

**15. Regulatory information:**

N-dangerous for the environment

**Dangerous component:**

Zinc chloride

**R-phrases:**

51/53

Toxic for water organisms, can have long-term noxious effects in waters

**S-phrases:**

1+2

Store firmly locked and away from access of children

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In case of ingestion, seek medical attention immediately and show packing or label

61

Avoid release into environment.

Obtain special instructions, consult safety data sheet

**Water hazard class:** 2

**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.