



Safety data sheet/ EG-Sicherheitsdatenblatt

Date of establishment: 19.01.03
Revision date: 31.03.05

Product/ Product group: **Soldering liquid**

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:

Watery solution of zinc chloride and ammonium chloride.

Dangerous ingredients	Classification	Weight %	CAS-No.
Zinc chloride	C- corrosive N-dangerous for the environment	18,5	7646-85-7
Ammonium chloride	Xn-dangerous for the health	5,5	12125-02-9

3. Possible hazards:

Causes corrosions. Irritates skin and eyes.
Noxious for water organisms, can have long-term noxious effects in waters.

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:

No limitations.

Unadequate extinguishing media for safety reasons:

No data available.

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

In case of fire, dangerous fumes can be generated (chlorine, HCl)

Special protection equipment for fire fighting:

Independent respiratory protection.

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 up with liquid-binding material and pass to waste disposal.

7. Handling and storage:

Handling:

Information for secure handling:

No special requirements.

Storage:

Requirements for storage rooms and containers:

Store in firmly locked containers at a cool and dry place .

8. Expose controls and personal protection:

Information on the design of technical plants:

Use exhaustion device.

Personal protection equipment:

Respiratory protection: No data available

Hand protection:

Material:

Nitril

e.g. KCL-dermatril (740)

Permeation time: 480 min.

Material:

Butyl

e.g.

KCL-butoject (898)

Permeation time: 480 min.

Eye protection: Protection goggles

Body protection: Appropriate working clothing

9. Physical and chemical properties:

- **Aggregate state:** liquid
- **Colour:** watery bright
- **Odour:** weak
- **pH-value (watery extract 20%):** 4,4
- **Boiling point/Boiling range (in °C):** > 100°C
- **Melting/Melting range (in °C):** --
- **Flaming point:** --
- **Specific gravity at 20°C:** 1,2 g/cm³
- **Solubility in water:** mixable
- **Explosion danger:** --
- **Vapour pressure:** --

10. Stability and reactivity:

Conditions to avoid:

None

Thermic decomposition

> 300° C

Products to avoid:

Avoid contact with strong oxidating agents.

Dangerous decomposition products

Ammonia, hydrogen chloride

11. Toxicological information:

Toxicologic datas:

No data available.

Information on irritating effects:

- Irritates the skin, eyes and mucuous membranes.
- After ingestion of greater quantities zinc chloride, blood pressure decrease, blood 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 x 2 mg/l zinc

13. Disposal considerations:

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

AVV-waste code no.	AVV-designation	AVV-group	EC group	Disposal method
060313	Stable salts, solutions containing heavy metals	Waste from salts, salt solutions and metal oxides		Chemic-physical treatment plant

Packing disposal:

According to official regulations.

14. **Transport information:**
Dangerous good according to transport regulations: YES

Exception:

LIMITED QUANTITIES:

Within these limits the product is classified as not dangerous for transport:
Upper limit: 3 Liters
Lower limit: 12 Liters

Road transport ADR/RID and GGVs/GGVE

GGVS/GGVE-class	8
ADR/RID-class	8
Packing group	III
Classification code	C1
LQ	19

Designation of the good: zinc chloride solution.

Sea transport: IDMG/GGVSea

IDMG/GGVSea class	8	UN-No.	1840
EmS	F-A/S-B	MFAG	
Packing group	III		

Proper technical name: zinc chloride solution.

Air transport ICAO-IATA and IATA-DGR

IACO/IATA-classq	8/196	UN-/ID-No.	1840
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Proper technical name: zinc chloride solution.

15. **Regulatory information:**

Marking according to EC guidelines:
Danger symbol and danger designation of the product:
C – corrosive.

R-phrases:

36/38 Irritates eyes and skin.
34 Causes corrosion

S-phrases:

1/ 2 Keep firmly locked and out of the reach of children.
26/28 In case of skin or eye contact, wash immediately away with plenty of water.
45 In case of accident or nausea, seek medical help immediately
61 Avoid release in environment. Obtain special instructions/consult safety data sheet
62 In case of ingestion, do not induce vomiting, drink plenty of water and seek medical help immediately. Present packing or label.

National guidelines:

Classification according to VbF: --
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.