

SAFETY DATA SHEET
(According to 91/155/EC)

Provetro[®]



Date of establishment: 23/01/02
Revision date:
Safety data sheet/ EG-Sicherheitsdatenblatt

Product/ Product group: **Soldering solution Frutti**

1.1 Substance/Preparation and Company Name

1.2 Information on the product

1.2 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:

CAS No.: 7646-85-7

- Salt-sour zinc: 14%
- Citric acid 70%: 12 %
- Glycerine: 7 %
- Destil. water, wetting agents, odoriferous and aromatic agents, food colourants

3. Possible hazards:

Hazard symbol

C corrosive

Special hazard indications for humans and environment

R 34 leads to cauterizations

4. **First Aid Measures**

General information

Inhalation:

Fresh air, if discomfort persists, consult medician. It is recommended to use a prophylactic dosis of dexamethasone spray.

Skin contact:

Remove contaminated clothes immediately. Wash with water and soap immediately and flush abundantly. If skin irritation persists, consult medician.

Eye contact:

Flush eyes immediately for at least 15 min. under running water with opened palpepral fissure.

Consult medician if discomfort persists.

Ingestion:

Rinse mouth immediately with a lot of water, drink a lot of water. Don't vomit, contact medician immediately

5. **Fire fighting measures :**

Appropriate extinguishing agent:

Material is not combustible.

6. **Measures in case of accidental release:**

Personal safety measures:

Wear protective clothes, keep unprotected persons away from material.
Protective equipment: Gloves of PVC, neopren or nitril caoutchouc.

Environmental protection:

Dilute soldering solution abundantly with water – Mix 1 l soldering solution + 10 l water and dispose of through canalisation in accordance with local regulations.

Methods for cleaning up:

Dilute spilled soldering solution with water and clean up with normal cloth. Rinse cloth thereafter intensively with water or absorb spilled material with absorbing material

Waste disposal: s. point 13 – clean surface thereafter carefully with water.

7. **Handling and storage:**

Information on secure storage:

Container should be firmly locked and stored in a cool, dry place.
Prevent children from accessing material.

Information on protection against fire and explosion:

Product is not combustible

Requirements for storage room and containers:

Store firmly locked – store in a cool place

8. **Exposure limits and personal protection:**

The information are based on the lists applying at the date of establishment.

Ingredients with exposure limits which have to be controlled:

| | |
|-------------------------------|---------------------|
| ▪ CAS-No. | 7667-85-7 |
| ▪ Designation of the material | Salt-sour zinc |
| ▪ % | ca. 24,5 |
| ▪ | TLV (USA) |
| ▪ Value unit | 1 mg/m ³ |

Personal protective equipment:

General protective and hygiene measures:

Keep away from food, drinks and fodder. Remove contaminated clothes immediately.
Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

Respiratory protection:

In case of short-term or weak contact use respiratory filter, in case of intensive resp. long-term exposure use independent respiratory protection equipment.

Hand protection:

Protective gloves.

Eye protection:

Protective goggles with side shields

Body protection:

Protective working clothes

9. **Physical and chemical properties:**

Appearance:

| | |
|-----------|--------|
| ▪ Form: | liquid |
| ▪ Colour: | blue |
| ▪ Odour: | citric |

Datas relevant for security purposes:

Change of state:

| | |
|-----------------------------|------------------------------|
| ▪ Melting point: | 100° C |
| ▪ Flash point: | --- |
| ▪ Ignition point: | --- |
| ▪ Boiling temperature: | 100 ° C at 1013 bar |
| ▪ Explosion limit: | The product is not explosive |
| ▪ Vapour pressure at 20° C: | 23 mbar |
| ▪ Specific gravity 20° C: | 1,033 g/cm |
| ▪ Viscosity at 20° C: | 1,0 |
| ▪ Solubility in water: | soluble |
| ▪ Miscibility with water: | miscible |
| ▪ pH-value: | at 100 g/l water ca 4,8 |

10. Stability and reactivity

Thermic decomposition:

Materials to avoid:

alkali

11. Toxicological information:

Experience with humans:

Acute toxicity: LD 50 oral, rat 350 350 mg/kg (ZnCL₂ 100 %)

Skin:

Permanent contact can lead to skin irritations. All mucous membranes are cauterised leading to formation of scurf. Resorption is effected at cauterised places. This can lead to death in case of greater injuries. Symptoms of intoxication after oral absorption: Nausea, vomiting, diarrhoe and blood in urine.

Eyes:

Irritations can lead to tissue damages if not flushed immediately with water.

Sensibilisation:

No sensitizing effects are known.

Ingestion:

Gastric disorder and irritations at inner organs possible.

12. Ecological information:

Ecotoxicity

Aquatic toxicity:

Water hazard class 1 – weak water hazard

13. Disposal considerations:

Recommendation:

- may not be disposed of together with normal waste
- Disposal in accordance with local regulations
- Waste no. X 35 309 (Waste containing zinc)

14. Transport information:

Not dangerous for transport in accordance with transport regulations

▪ **Overland transport ADR/RID and GGV/GGVAE -**

Technical designation: 1840 salt-sour zinc, solution

GGVS/GGVE: Class 8 subparagraph 5 letter c

RID/ADR Class 8 subparagraph 5 letter c

UN-No. 18 40

▪ **Sea transport IMDG/GGVSee - Classification:**

IMDG-Code Class 8 Page 82 47 UN-No. 1840 Pack. group III

IMFAG-Ems: 145/8-06.2

Air transport ICAO-TI and IATA-DGR - classification:
ICAO-IATA-class: 8
UN/ID-No: 1840 – Packing group: III

15. Regulations:

Labelling according to EC regulations:

Symbol and hazard designation of the product:

The product is classified and labelled according to EC regulations.

C corrosive

R-phrases:

R34 leads to cauterizations

S-phrases:

S 7/8 Keep container dry and firmly locked

S 28 Rinse immediately with a lot of water in case of skin contact

16. Other information

Further information is supplied in the information sheets of the trade associations of the chemical industry.

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.