



Safety data sheet/ EG-Sicherheitsdatenblatt
Date of establishment: 13/01/03
Revision date:

Product/ Product group: **Patina brown**

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:

Acid-containing solution of water, hydrochloric acid and aqua fortis.

Hazardous ingredients:

CAS-No.	Designation according to EC guideline	Content %	Danger symbol	R-phrases
76477-01-0	Hydrochloric acid	> 2,0%	C	R34, R37
7758-98-7	Copper sulphate	1,8 %	Xn, N	R22, R36/38, R50/53

3. Possible hazards:

N noxious for the environment.

Danger marking:

R-phrases	S-Sätze
R50/53 R22 R37	S1/2 S7/9 S29 S65

Special danger for humans and environment:

Very toxic for water organisms, can cause long-term damage in waters.

4. First Aid Measures:

Inhalation:

Skin contact:

Wash immediately with water and soap and rinse thoroughly.

Eye contact.

Rinse eyes for several minutes at opened palpebral fissure under running water. If discomfort persists, seek medical attention.

Ingestion:

Rinse mouth and drink plenty of water – seek medical attention.

5. Fire fighting measures:

Appropriate extinguishing media:

Adapt to environmental fire.

Unadequate extinguishing media for safety reasons:

No further information available.

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

Special protection equipment for fire fighting:

6. Accidental release measures:

Personal precaution measures:

Avoid contact with skin and eyes. Wear personal protection clothing.
Protection clothing: Gloves of PVC, neopren or nitril rubber.

Environmental protection measures:

Do not let it pass into canalisation.

Measures for cleaning up/absorbing

Take up with liquid-binding material and dispose of according to official guidelines.

7. Handling and storage:

Handling:

Information for secure handling:

Store container firmly locked at a cool, dry place. Keep out of reach of children.

Storage:

Requirements for storage rooms and containers:

Store container firmly locked at cool place.

8. Expose controls and personal protection:

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

CAS-No.	Designation of the substance	Max. concentration on working place	Value	Unity
7758-98-7	Copper sulphate (as Cu in respirable dust)	MAK	1mg	m ³
7647-01-0	Hydrochloric acid	MAK	8mg 5ml	m ³

Persönliche Schutzmaßnahmen:

Allgemeine Hinweise, Schutz- und Hygienemaßnahmen:

Keep away from food, drinks and fodder. Remove contaminated, soaked clothing immediately.

Wash hands before breaks and at end of work. Avoid contact with eyes and skin.

Respiratory protection:

In case of short-term or low exposition, use respiratory filter device, in case of intensive resp. long-term exposition, use independent respiratory protection device.

Hand protection:

Protection gloves.

Eye protection:

Protection goggles with side shields.

Body protection:

Protective working clothes

9. **Physical and chemical properties:**

▪ Aggregate state:	liquid
▪ Colour:	dark blue
▪ Odour:	weak acid odour
▪ pH-value:	g/l H 20. < 1
▪ Boiling point/Boiling range (in °C):	100° C at 1013 mbar
▪ Melting/Melting range (in °C):	100° C
▪ Flaming point:	no data available
▪ Specific gravity at 20°C:	1,033 g/cm
▪ Solubility in water:	soluble
▪ Mixability with water:	mixable
▪ Explosion danger:	none
▪ Vapour pressure:	at 20° C: 23 mbar

10. **Stability and reactivity:**

No data available

Conditions to avoid/thermic decomposition:

Products to avoid:

Dangerous decomposition products

11. **Toxicological information:**

Practical experiences:

Description of effects on humans:

Skin:

Permanent contact can lead to skin irritations.

Eyes:

Irritations can possibly lead to tissue damages, if not immediately rinsed with water.

Sensibilisation:

Sensibilisation possible by skin contact.

Ingestion:

Irritations of gastric tract and possibly damages at inner organs.

12. **Ecological information:**

No data available.

13. Disposal considerations:

For the material/residues

Recommendation:

Take up with liquid-binding material and dispose of according to official guidelines.

14. Transport information:

Not dangerous for transport according to transport regulations.

15. Regulatory information:

Marking according to EC guideline:

Danger symbol and danger marking of the product:

N noxious for the environment

R-phrases:

R22 noxious for the health at ingestion

R37 irritates the respiratory organs

R50/53 very toxic for waterorganisms, can cause long-term damages in waters.

S-phrases:

S1/2 Keep firmly locked and out of reach of children

S7/9 Store container firmly locked at a well ventilated place

S29 Do not let pass into canalisation

S65 Avoid releasing into environment, consult safety data sheet

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.