



## Safety data sheet/ EG-Sicherheitsdatenblatt

Date of establishment: 22.08.05  
Revision date:

Product/ Product group: **Etching Dip**

### 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:

CAS-No.	Designation
1341-49-7	Ammoniumhydrogendifluoride

### 3. **Possible hazards:**

#### Danger symbol:

C corrosive

#### Special

#### Special danger information for humans and environment:

- Toxic in case of ingestion
- Causes corrosion

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

#### Inhalation:

Fresh air, in case of discomfort, seek medical attention and inhale auxiloson spray.

#### Eye contact:

Wash eyes several minutes with opened palpebral fissure under running water for at least 15 min. If discomfort persists, seek medical attention.

#### Skin contact:

Wash immediately with water and soap and rinse thoroughly. Remove contaminated clothes immediately. In case of persisting skin irritation wash with polyethenglycol (e.g. lutrol). Seek medical attention.

**Ingestion:**

Rinse mouth and drink plenty of water. Do not induce vomiting. Seek medical attention.

**5. Fire fighting measures:**

The product is not combustible.

**6. Accidental release measures:**

**Personal precaution measures:**

Wear protective clothing. Wear gloves of PVC, neopren or nitrile rubber. Keep unaffected persons away.

**Environmental protection measures:**

Do not let it pass into canalisation. If material passes into canalisation, inform Authorities.

**Measures for cleaning up/absorbing**

Take up with liquid-binding material (e.g. sand, kieselguhr, universal binding agent). Afterwards, clean preferably with cleaning agents, do not use any dissolvents.

**7. Handling and storage:**

**Information for secure handling and storage:**

Keep container firmly locked and store at a cool, dry place. Do not let children access material.

**Information on fire and explosion fighting measures:**

Product is not combustible

**Requirements for storage rooms and containers:**

Store firmly locked at a cool place.

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

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

None.

**General protection and hygiene measures:**

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 slight exposition, use respiratory filter device, in case of intensive resp. long-term exposition use independant respiratory protection device.

**Hand protection:**

Protection gloves. After hand-washing replace lost skin fat by fat-containing skin creams.

**Eye protection:**

Protection goggles with side shields.

**Body protection:**

Protective working clothes.

**9. Physical and chemical properties:**

- |   |                            |
|---|----------------------------|
| ▪ <b>Aggregate state:</b>                     | liquid                     |
| ▪ <b>Colour:</b>                              | blue-violet                |
| ▪ <b>Odour:</b>                               | neutral                    |
| ▪ <b>pH-value:</b>                            | 14,4 g/7l H <sub>2</sub> O |
| ▪ <b>Boiling point/Boiling range (in °C):</b> | 238° C at 1013 mbar        |
| ▪ <b>Melting point/Melting range (in °C):</b> | 125,6° C                   |

- **Flaming point:**
- **Specific gravity at 20°C:** 2,28 g/cm
- **Solubility in water:** soluble
- **Mixability with water:** mixable
- **Explosion danger:** not explosive
- **Viscosity:** 1 at 20° C 14 g DIN 53214

**10. Stability and reactivity:**

**Conditions to avoid/ Products to avoid:**

Contact with acids releases strong corrosive hydrogen fluoride gas.

**Thermic decomposition:**

No decomposition in case of appropriate use.

**11. Toxicological information:**

**Primary irritating effects:**

**Skin:**

Irritates skin and mucous membranes.

**Eyes:**

Irritations can possibly cause lesions, if not rinsed immediately with water.

**Sensitisation:**

Possible by skin contact.

**Ingestion:**

Irritation in gastric tract and possibly damages at inner organs.

**12. Ecological information:**

**Water hazard class 1:**

Weak water hazard

**13. Disposal considerations:**

**For the material/residues**

**Recommendation:**

May not be disposed of together with household garbage. Mix smaller quantities with lime milk and wash away with plenty of water. Dispose of greater quantities as special waste according to official regulations.

**14. Transport information:**

Not dangerous for transport according to transport regulations.

**15. Regulatory information:**

**Labelling according to GefStoff/EC:**

**R-phrases:**

25 Toxic in case of ingestion

34 causes corrosions

**S-phrases:**

26 In case of eye contact, rinse immediately with plenty of water and seek medical attention.

28 In case of skin contact, wash immediately with plenty of water.

37 Wear appropriate protection gloves.

**Danger symbol and designation of the product:**

The product has been classified and marked according to EC guidelines GefStoffV:  
C corrosive

**Classification according to VBF:**

not applicable

**Technical instruction for air purification**

no data available

Additional information can be taken from the data sheets of the professional associations of the chemical industry.

**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.