



Date of establishment: Safety data sheet/ EG-Sicherheitsdatenblatt  
09/01/03  
Revision date:

Product/ Product group: **Provetro Profi glass cleanser**

### 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:**

Preparation of the following substances:  
H<sub>2</sub>O, anionic surfactants, alcohols, glycol ethers, ammonia solution and perfums

### **Dangerous ingredients:**

67-63-0 Isopropanol 10-25%  
F; R 11

## 3. **Possible hazards:**

### **Information pertaining to particular dangers for men and environment:**

R10 – inflammable

### **Classification system:**

The classification corresponds to the valid EC lists and is complemented by the manufacturer by information from the professional literature and company's information.

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

### **Inhalation:**

Fresh air.

### **Eye contact:**

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

### **Skin contact:**

Wash away with water.

### **Ingestion:**

Rinse mouth and drink plenty of water. If discomfort persists, seek medical attention.

**5. Fire fighting measures:**

**Appropriate extinguishing media:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight greater fire with water spray or alcohol-resistant foam.

**Unadequate extinguishing media for safety reasons:**

Water jet.

**Special hazards caused by the material, its combustion products or flue gases:**

Vapours can produce explosive mixtures with air that are heavier than air. Ignition by hot surfaces, sparks or open flame.

**Special protection equipment for fire fighting:**

In case of release of greater quantities wear independent respiratory protection device and tightly-fitting protection suit against chemicals.

**6. Accidental release measures:**

**Personal precaution measures:**

Keep persons away and stay at wind-ward side.

Provide for sufficient ventilation.

Avoid contact with skin and eyes.

Do not inhale vapours.

Keep away from ignition sources – do not smoke – avoid sparks.

**Environmental protection measures:**

Avoid passing into canalisations, pits and cellars.

Dilute smaller quantities with plenty of water.

**Measures for cleaning up/collecting;**

Take up with liquid-binding material (sand, kieselguhr, acid binding agent, universal binding agent, saw dust)

Provide for sufficient ventilation.

**Additional information:**

Vapours can produce an explosive mixture with air.

**7. Handling and storage:**

**Handling:**

**Information on secure handling:**

Provide for good ventilation/exhaustion at working place. Avoid formation of aerosol.

**Information on protection against fire and explosion:**

Keep away from sources of ignition – do not smoke.

**Storage:**

**Requirements for storage rooms and containers:**

Avoid passing into soil by all means.

Keep containers firmly locked.

**Information on storage together with other substances:**

Do not store together with oxidating agents.

**Storage class:**

3A (VCl)

**VbF-class:**

None.

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

**Additional information on the design of technical plants:**

No special information, refer to section 7.

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

67-63-0 Isopropanol

MAK: 930 mg/m<sup>3</sup>, 400 ml/m<sup>3</sup>.

**General protective and hygiene measures:**

Remove contaminated, soaked cloathing immediately.

Avoid contact with eyes.

Wash hands before breaks and at end of work.

**Breathing equipment:**

Not necessary in case of good room ventilation.

Respiratory protection in case of formation of aerosol and mist.

**Protection of hands:**

Recommendable.

**Eye protection:**

Protection goggles in case of danger of splashing.

**9. Physical and chemical properties:**

- **Form:** liquid
- **Colour:** colourless
- **Odour:** ammonia
- **Boiling point/Boiling range (in °C):** 82° C
- **Melting/Melting range (in °C):** not specified
- **Self-ignition:** the product is not self-ignitable
- **Flash point:** 28° C
- **Ignition temperature:** 425° C
- **Solubility in water:** completely miscible
- **Explosion danger:** The product is not explosive itself, but the formation of explosive vapour/air mixtures is possible.
  
- **Explosion limit:**
- **Upper limit:** 12 Vol. %
- **Lower limit:** 2 Vol. %
- **Density (at 20°C):** 0,967 g/cm<sup>3</sup>
- **Steam pressure (at 30° C):** 131 mbar
- **Viscosity dynamic (at 25° C):** thinly liquid

**10. Stability and reactivity:**

**Conditions to avoid/thermic decomposition:**

No decomposition in case of appropriate use.

**Dangerous reactions:**

Reactions with strong acids.

Reactions with oxidating agents.

**Dangerous decompositon products**

No dangerous decomposition products known.

**11. Toxicological information:**

**Acute toxicity:**

LD/LC50 values relevant for classification:

67-63-0 Isopropanol

- Oral: LD50: 4570 mg/kg (rat)
- Dermal: LD50: 13400 mg/kg (rab)
- Inhalative: LC50/4 h: 30 mg/l (rat)

**Primary irritating effects:**

**Skin:**

No irritating effect.

**Eyes:**

Irritating effect possible.

**Sensitization:**

No sensitizing effect known.

**Additional toxicological information:**

In case of appropriate handling and utilisation the product does not cause any damages for the health according to the experiences of the manufacturer and the information supplied to him.

**12. Ecological information:**

**Information on elimination (persistence and biodegradability):**

The used surfactants are biologically degradable at 90 % (OECD test).

**Additional information:**

The product corresponds to the Wasch- und Reinigungsmittelgesetz (WRMG = German legislation on washing and cleansing agents) and is biologically degradable.

**Ecotoxic effects:**

Reaction in water treatment plants:

In case of appropriate use, disturbances at water treatment plants are not to be expected according to the experiences of the manufacturer.

By no means, should the product be passed in greater quantities in the waste water.

**Additional ecological information:**

**Water hazard class:**

1 (self-assessment of the manufacturer) weak water hazard. May not be passed undilutedly or in greater quantities in ground water, waters or canalisation.

**13. Disposal considerations:**

**For the material/residues**

**Recommendation:**

If the product cannot be used as residue, it can be disposed of together with household garbage in smaller quantities adhering to official regulations.

**For contaminated packing:**

Contaminated packings have to be emptied in an optimal way. They can, thereafter, be passed to a recycling system after appropriate cleaning.

**Recommended cleansing agent:**

Water

**14. Transport information:**

Dangerous good according to transport regulations:

**Exception:**

**Limited quantities:**

The product is not classified as dangerous for transport if the following limit is not exceeded:

3 LTR.

**Road transport ADR/RID and GGVS/GGVE (passing inland barriers)**

**ADR/RID – GGVS/E class:** 3 inflammable liquid substances

**Number/letter:** 31 c)

**Kemler-number:** 30

**UN-No.:** 1219

**Designation of the good:** Isopropyl alcohol.

**15. Regulatory information:**

**Designation according to EC guidelines:**

The product is classified and labelled according to EC guidelines/GefStoffVO.

**Risk phrases:**

10 inflammable

**Safety phrases:**

2 Keep out of reach of children

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

51 Use only in well-ventilated areas

**National regulations:**

**Classification according to VbF:**

None.

**Water hazard class:**

**1 (self-assessment of the manufacturer)**

Weak water hazard

**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.