



Safety data sheet/ EG-Sicherheitsdatenblatt

Date of establishment: 06/05/03

Revision date:

Product/ Product group: **Casting resin**

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:

Resin solution of an unsaturated polymer.

CAS-No.	E.C. no.	Designation according to EC guidelines	Portion	Symbol	R-phrases
100-42-5	202-851-5	Styrol	45-50 %	Xn	10 – 20 – 36/38
80-62-6	201-297-1	Methyl-Methacrylate	1-5 %	Xi, F	11-43-37/38

3. Possible hazards:

R-phrases	S-phrases
10 – 20 – 36/38	51-37-26-24

Special hazards for humans and environment:

Inflammable, noxious for the health if inhaled, irritates eyes and skin. Sensitization possible in case of skin contact.

4. First Aid Measures:

General information:

Adhere to security advice and utilisation instruction on packing.

Inhalation:

Remove affected person from danger zone immediately. In case of irregular breathing/breathing stop: artificial respiration. Seek medical attention.

Eye contact:

Rinse with plenty of water for at least 10-15 min. Seek medical attention.

Skin contact:

Remove soaked, dirty clothing immediately. Wash away with plenty of soap and water, Rinse,

Ingestion:

Rinse mouth with plenty of water, drink plenty of water. Seek medical attention.

Information for doctor:

Present this data sheet to doctor in charge.

5. Fire fighting measures:

Appropriate extinguishing media:

Foam, carbon dioxide, dry extinguishing media.

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, wear independent breathing equipment. Closed protection suit.

Additional information:

Do not let pass extinguishing water into canalisation.

6. Accidental release measures:

Personal precaution measures:

Remove all sources of ignition. Provide for sufficient ventilation. Adhere to usual precaution measures for handling of chemicals.

Environmental protection measures:

Do not let pass into canalisation. Dispose of according to regulations.

Measures for cleaning up/absorbing:

Remove mechanically. Take up residues with liquid-absorbing materials.

7. Handling and Storage:

Handling:

Adhere to usual precaution measures for handling of chemicals. Avoid contact with skin and eyes. Keep away from sources of ignition – do not smoke. Prepare fire extinguisher before opening the packing.

Information for protection against fire and explosion:

s. above

Storage:

Requirements for storage rooms and containers:

Keep away from food, beverages and fodder. Containers should not be left opened – containers should be grounded. Provide for sufficient ventilation.
Store at max. + 25 ° C, store for 6 months at cool and dry place. Cool containers that are in danger of overheating.

8. Exposure controls and personal protection:

Additional information on design of technical plants:

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

Styrol, CAS-No.: 100-42-5

Specification: TRGS 900 – Air limit values at working place (D)
Value: 20 ppm/86 mg/m³
Category: 4
Notes: Y
Version date: 01.09.01

Methyl-Methacrylate, CAS-No. 80-62-6

Spezifizierung: TRGS 900 – Air limit values at working place (D)
Value: 50 ppm/210 mg/m³
Category: = 1 =
Version date: 01.09.01

Personal protection measures:

General information, protection and hygiene measures:

Do not smoke, eat or drink at work. Adhere to usual precaution measures for handling of chemicals.

Respiratory protection:

Hand protection:

Protection gloves.

Eye protection:

Protection goggles.

Body protection:

Light protection clothes.

9. Physical and chemical properties:

- **Aggregate state:** liquid
- **Colour:** light yellow
- **Odour:** styrol

- **pH-value:** no data available
- **Boiling point (1013 hPa):** 145°C-146° C
- **Flaming point:** 34° C
- **Ignition temperature:** 490° C
- **Steam pressure at 20° C:** 6,24 hPa (literature value)
- **Specific gravity:** 1,005g/cm³
- **Viscosity:** 100 mPas (23° C)
- **Dissolvent portion:** ca. 50 %

10. Stability and Reactivity:

Conditions to avoid/thermic decomposition:

None in case of appropriate use.

11. Information on Toxicology:

Toxicological tests:

Toxicological information about the preparation are not available. Information concerning volatile ingredients of the preparation can be taken from the safety data sheet of the dissolvent.

Sensitization:

Information about sensitization are not available. Information concerning volatile ingredients of the preparation can be taken from the safety data sheet of the dissolvent.

12. Information on ecology:

Do not let pass into waters or canalisation.

13. Information on waste disposal:

For the material/residues

Recommendation:

Pass to an appropriate incineration plant or deposit.

For contaminated packing:

Residues of contaminated containers have to be removed. After appropriate cleaning they can be recycled. Uncleaned packing have to be disposed of like the substance.

14. Information on Transport:

The good is classified as dangerous for transport according to transport regulations.

EXCEPTION:

Limited quantities:

The product is not classified as dangerous for transport within the following limits:

Lower limit: 5 L
Upper limit: 45 L

Road/Rail transport (GGVS/ADR/GGVE/RID)

GGVS/ADR/GVE/RID Class: 3
UN No. 1866
Kemler no.: 30
Number/letter 31 c
Designation of the good resin solution

Roadtransport

ADR/RID/GGVS/GGVE-class (2001): 3
UN-No. 1866
Kemler no.: 30
Classification code: F1

Transport by sea ships:

GGVSee/MDG-Code: 3
EmS-No.: 3-05
MFAG-No.: 310
Marine Pollutant: --
UN-No.: 1866
IMDG-Page: 3379
Proper shipping name: resin solution
Packing group: III
Danger sheet: 3

Transport by aeroplanes

ICAO/IATA-DGR: 3
UN-No.: 1866
Packing group: III
Danger sheet: 3
Proper shipping name: resin solution

15. Regulations:

Labelling according to EC guideline:

The product is labelled and classified according to EC guidelines.

Symbol:

Xn dangerous for the health

Hazard-determining components for labelling:

Styrol CAS-Nr. 100-42-5
Methyl-Methacrylate, CAS-Nr. 80-62-6

Hazard marking:

R-Phrases:

R10	inflammable
R20	dangerous for the health at inhalation
R 36/38	irritates skin and eyes
R43	sensitisation possible in case of skin contact

S-Phrases:

S51	use only in well-ventilated areas
S37	wear appropriate protection gloves
S26	rinse immediately with water in case of eye contact and seek medical attention
S24	avoid skin contact

National regulations

Vbf-Klasse: All

Technical instructions for air cleaning:

Sum organic substances of class I:	< 5 %
Sum organic substances of class II:	45 – 50 %
Sum organic substances of class III:	< 5 %

Water hazard class

2 gemäß VwVwS

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.