

## 1. Identification of the substance/preparation and of the company

Trade name

**CARSYSTEM GLAS**

Use of the substance / preparation

Polyester Filler

Manufacturer / marketer identification

VOSSCHEMIE GmbH  
 Esinger Steinweg 50

D-25436 Uetersen

Tel. +49-4122/717-0 Fax. +49-4122/717158

Information provided by:

Laboratory / Telephone: +49-4122-717-0

Emergency information:  
 Giftinformationszentrum(GIZ)-Nord, Göttingen  
 Telephone Numbers: +49-551-19240, +49-551-383180

**Distributor in New Zealand**

R A Johnstone & Co Ltd  
 739 Great South Road, Otahuhu  
 PO Box 97 948 SAMC. Manukau 2240  
 Auckland. New Zealand  
 Ph :+64 9 261 0333  
 Fax:+64 9 261 0330  
 www.raj.co.nz

**Emergency telephone in New Zealand  
 National Poison Center(24 hours):**

**0800 POISON [764 766]**

## 2. Composition/information on ingredients

Chemical characterization

Description

Polyester resin with filling material and styrene

Dangerous components

CAS No.	EC No	content unit	danger symbol	R phrases
Identification according to EEC Directive				
Classification				

100-42-5	202-851-5	13-18 % Xn		R10, R20, R36/38
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STYRENE  
 R10  
 Xn, R20  
 Xi, R36/38

14807-96-6	238-877-9	30-60 %		
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TALCUM (FREE OF ASBESTOS FIBRES)

13462-86-7	236-664-5	5-25 %		
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Barite (barium sulphate)

Full text of R-Phrases: see under section 16.



### 3. Hazards identification

Flammable.  
Harmful by inhalation.  
Irritating to eyes and skin.

Overexposure may lead to nausea and headache.

[The HSNO Approval Number for this Group Standard is HSR002662](#)

### 4. First aid measures

#### First aid measures / general indications

- + Pay attention to self-protection.
- + Remove contaminated clothes without delay.
- + In case of unwellness, seek medical advice.

#### First Aid measures / inhalation

- + Remove concerned person out of danger area
- + Provide for fresh air.
- + Consult a doctor immediately.
- + Irregular breathing/no breathing: artificial respiration
- + In case of unconsciousness place and transport casualty in stable position (lying sideways).

#### First Aid measures / skin contact

- + Remove mechanically and wash off with plenty of soap and water.
- + Do not use solvents.
- + Cleaned skin should be rubbed carefully with ointment.
- + If there is skin irritation, consult a doctor.

#### First Aid measures / eye contact

- + Rinse immediately with plenty of water with eyelid open (for at least 15 minutes), then send for a doctor immediately.

#### First Aid measures / ingestion

- + Do not induce vomiting. Seek immediately for medical attention.

### 5. Fire-fighting measures

#### Appropriate extinguishing media

- + Foam, carbon dioxide, powder (dry chemical)
- + Water fog

#### Extinguishing media that must not be used for safety reasons

- + Water beam

#### Special hazards arising from the product itself, from combustion products or from resulting gases

- + In the event of fire, the following may be liberated among others:
- + Carbon oxides

#### Special protective equipment for fire-fighters

- + Do not inhale combustion gases.
- + Breathing equipment with independent air supply is necessary.

#### Additional information

- + Cool threatened containers with water in case of fire.
- + Water, contaminated with extinguishing media, may not enter the sewer, collect separately.
- + Dispose fire remainder and contaminated quenching water in accordance with local administrative provisions.

## 6. Accidental release measures

- + **Personal precautions**
- + Observe safety regulations (see section 7 and section 8).
- + Keep away from sources of ignition.
- + Keep away persons not involved.
  
- + **Environmental precautions**
- + Do not allow to enter the ground, natural waters or the drain.
- + If rivers, lakes or waste water lines are contaminated, notify the responsible authorities in accordance with the local laws.
  
- + **Methods for cleaning up/taking up**
- + Remove by mechanical means.
- + Collect remainder with non-combustible, liquid binding material (e.g. sand, kieselguhr, vermiculite).
- + Notice section 8.
- + Dispose of waste material in accordance with the regulations, as described under section 13.

## 7. Handling and storage

### Handling

- + Advice on safe handling
- + Avoid contact with eyes, skin and clothing.
- + Avoid breathing vapours
- + Ensure that there is adequate ventilation in the working area, local exhaust recommended.
  
- + Advice on protection against fire and explosion
- + Formation of explosive, highly inflammable vapour-air mixtures are possible.
- + Keep away from sources of ignition - no smoking.

### Storage

- + Always keep in original container.
- + Store containers tightly closed, in a fresh, well-ventilated area
- + Do not expose to moisture and light.
- + Keep away from sources of ignition and heat. Do not smoke.
- + Keep away from food, drink and animal feeding stuffs

## 8. Exposure controls/personal protection

Components for which limit values for exposure at the place of work exist (Germany):

+ _____				
Identification according to EEC Directive				
CAS No	EC No	limit value		
_____				
STYRENE				
100-42-5	202-851-5	AGW	20	ml/m <sup>3</sup>
		AGW	86	mg/m <sup>3</sup>
Danger of developmental toxic effects must not be feared as long as AGW and BGW are not exceeded.				
_____				
TALCUM (FREE OF ASBESTOS FIBRES)				
14807-96-6	238-877-9	MAK-Grenzwert	2	mg/m <sup>3</sup> A

Danger of developmental toxic effects must not be feared as long as AGW and BGW are not exceeded.

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Barite (barium sulphate)			
13462-86-7	236-664-5	AGW	3 mg/m <sup>3</sup> A *)
		AGW	10 mg/m <sup>3</sup> E *)

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+ \*) General threshold limit value for dust, TRGS 900 No. 2.4

#### Personal protection

##### Respiratory protection

Provide good ventilation.

+ Respiratory protection is required when limit values are exceeded.

+ Use self contained air breathing equipment or filter respirator (for short time use only)

Recommended: filter type A, colour brown.

##### Hand protection

Use skin protective barrier cream

Use protective gloves.

Recommended:

Fluor rubber

The resistance of the protective gloves to chemicals should be ascertained with the respective supplier. Specific conditions at workplace should be taken to consideration.

##### Eye protection

Wear safety glasses in case risk to eye contact exists.

##### Hygiene measures

+ Apply a suitable skin protective agent before work.

Do not eat, drink or smoke during work.

Wash hands before pauses and when ending work.

Remove contaminated clothes immediately.

Store working clothes separately.

## 9. Physical and chemical properties

### Appearance

Form : pasty

Colour : green

Odour : like styrene

### Security-relevant data

#### Boiling temperature

Reference value	From	To	
ca.	145		°C

Method: (styrene)

Flash point: ca. 31 °C

Method : DIN 53213

Ignition temperature : ca. 490 °C

Method : (styrene)

Lower explosion limit: 1.1 % vol  
Method : (styrene)

Upper explosion limit: 8 % vol  
Method : (styrene)

Vapour pressure: 50°C 35 hPa  
Method : (styrene)

Density at: 20°C ca. 1.8 g/cm<sup>3</sup>  
Method :

Solubility in water:  
at 20°C 0.30 g/l  
Method : (styrene)

#### Additional data

The physical data refer to the security relevant component(s) as used, approximate values are given.

## 10. Stability and reactivity

#### Dangerous reactions

Not to be considered if duly stored and manipulated.

#### Hazardous decomposition products

Not to be considered if duly stored and manipulated.

#### Thermal decomposition

Not to be considered if duly stored and manipulated.

#### Additional information (10)

Avoid excessive heating.

Pay attention to the exothermic reaction with peroxides

## 11. Toxicological information

This product contains styrene. Styrene irritates the eyes, the skin and the respiratory system, it is harmful in case of inhalation.

#### Literature values on styrene:

LD 50, oral, rat: 5000 mg/kg

LC 50, inhalation, 4h, rat: 11,8 mg/kg

## 12. Ecological information

Do not let enter into water or sewer.

#### Literature data on styrene

Acute bacterial toxicity: EC 00 = 72 mg/l Test duration: 16 h 1)

Acute fish toxicity: LC 50 = 17 mg/l (Juhnke) 2)

LC 50 = 66 mg/l (Luedemann) 2)

Test species = Golden orfe (Leuciscus idus) Test duration: 48 h

Acute Daphnia toxicity: EC 50 = 182 mg/l Test duration: 24 h 3)

1) Z. f. Wasser- und Abwasserforschung 10, 87- 98 (1977)

2) Z. f. Wasser- und Abwasserforschung 11, 161-164 (1978)

3) Z. f. Wasser- und Abwasserforschung 15, 1- 6 (1982)

### 13. Advice on disposal

Disposal / product

In accordance with local administrative provisions,  
take to an appropriate incineration installation,  
or dispose in hardened form at a regular waste collection point.

Waste code no. / name of waste

07 02 08 Other still bottoms and reaction residues

The waste codes quoted are only recommendations. Other waste  
codes may also be possible with regard to different regional  
regulations.

### 14. Transport information

Land transport / lorry / international / comments

UN-No.: 1866

Harzlösung

ADR/RID-GGVS/E: 3/III

Valid for polyesterputty of 5,0 L or more per each innerpackaging  
without hardener

Inland waterway transport / comments

ADN/ADNR non communicated

Sea transport / comments

UN-No.: 1866

Resin solution

IMDG/GGVSee: 3/III

EMS: F-E, S-E

Marine pollutant:



Air transport / comments

UN-No.: 1866

Resin solution

ICAO/IATA-DGR: 3/III

- + Remark: ADR/IMDG/IATA-DGR Transport
- + Polyester resin kit (UN 3269) consist of putty, class 3, packing  
group III and BPO-hardener (organic peroxide).

- + **Additional information**
  - Inflammable, flash point +31°C
  - Avoid thermal influence
  - Keep away from food and drink.

## 15. Regulatory information

Labelling [The HSNO Approval Number for this Group Standard is HSR002662](#)

Contains:  
STYRENE

Symbol and indication of danger

Xn Harmful

R phrases

R 10 Flammable  
R 20 Harmful by inhalation  
R 36/38 Irritating to eyes and skin

S phrases

S 02 Keep out of reach of children  
S 23 Do not breathe vapour  
S 51 Use only in well ventilated areas.  
S 38 In case of insufficient ventilation, wear suitable,  
respiratory equipment  
S 46 If swallowed, seek medical advice immediately and show  
this container or label.

- + Declaration according to Directive 2004/42/EC
- + 2004/42/IIB ( b ) ( 250 ) < 250
- + Consult the Technical Data Sheet

### National regulations (D)

The legal regulations for limited employment, e.g. the law for the protection of youth work and the decree for the legal protection of motherhood, have to be observed.

TA-Luft (Styrene): Class II

Class of danger to water (WGK):  
2 (own assessment, not checked)

Consult the technical leaflets by BG-Chemie (Employment Accident Insurance Fund for the Chemical Industry)

M 054 ``Styrol und styrolhaltige Zubereitungen``  
M 023 ``Polyester- und Epoxid-Harze``.

## 16. Other information

Relevant R phrases

R 10 Flammable  
R 20 Harmful by inhalation  
R 36/38 Irritating to eyes and skin

\* + Data changed compared with the previous version.

Sections where no data are entered indicate that no data are known, or no experience is available. This does not justify the assumption that no danger can arise from the relevant point under consideration.

The information given is based on the current state of our knowledge and experience. The safety data sheet describes products with regard to safety requirements. The data do not represent a guarantee of properties.

Converted to New Zealand Standard by Sam Gunaratna B Sc, Post-Grad Dip in Science (University of Auckland)  
Ph: 021 02776004; email: olu@ihug.co.nz September 2008