

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

<p>Trade name</p> <p>CARSYSTEM Liquid Putty</p> <p>Use of the substance / preparation</p> <p>Polyester Filler</p> <p>Manufacturer / marketer identification</p> <p>VOSSCHEMIE GmbH Esinger Steinweg 50</p> <p>D-25436 Uetersen</p> <p>Tel. +49-4122/717-0 Fax. +49-4122/717158</p> <p>Information provided by: Laboratory / Telephone: +49-4122-717-0 E-Mail: S.Schaller@vosschemie.de</p> <p>Emergency information: Giftinformationszentrum(GIZ)-Nord, Göttingen Telephone Numbers: +49-551-19240, +49-551-383180</p>	<p>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</p> <p>Emergency telephone in New Zealand National Poison Center(24 hours): 0800 POISON [764 766]</p>
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2. 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

3. 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 STYRENE	202-851-5	18-25 %	Xn	R10, R20, R36/38
R10 Xn, R20 Xi, R36/38				
14807-96-6 TALCUM (FREE OF ASBESTOS FIBRES)	238-877-9	20-50 %		
13463-67-7 TITANIUM DIOXIDE	236-675-5	1-5 %		
64742-95-6 Solvent naphtha (petroleum), light aromatic	265-199-0	0,1-0,5 %	Xn,N	R10, R65, R37, R51, R53

38668-48-3	254-075-1	0,1 - 0,3 % T,Xi	R25, R36,
1,1'-(p-tolylimino)dipropan-2-ol			R52/53

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

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
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STYRENE

100-42-5	202-851-5	AGW	20 ml/m ³
		AGW	86 mg/m ³

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 ³ A
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Danger of developmental toxic effects must not be feared as long

as AGW and BGW are not exceeded.

TITANIUM DIOXIDE			
13463-67-7	236-675-5	AGW	3 mg/m3 A *)
		AGW	10 mg/m3 E *)

Solvent naphtha (petroleum), light aromatic			
64742-95-6	265-199-0	MAK-Grenzwert	50 ml/m3
		MAK-Grenzwert	200 mg/m3

*) 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 to liquid

Colour : beige

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. 1.6 g/cm³
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 25 Toxic if swallowed
R 36 Irritating to eyes
R 36/38 Irritating to eyes and skin
R 37 Irritating to respiratory system
R 51 Toxic to aquatic organisms
R 52/53 Harmful to aquatic organisms, may cause long-term
adverse effects in the aquatic environment.
R 53 May cause long-term adverse effects in the aquatic
environment
R 65 Harmful: may cause lung damage if swallowed

* + 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.