Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 *V - 2* *Revision: 21.11.2018*

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name: CARSYSTEM UV Filler Spray**
· **1.2 Relevant identified uses of the substance or mixture and uses advised against** Not determined
· **Application of the substance / the mixture**
Coating
Knife filler/ Surfacer

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Vosschemie GmbH
Esinger Steinweg 50
D-25436 Uetersen
Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de

· **Further information obtainable from:**
Abteilung Labor / +49 (0)4122 717 0
s.schaller@vosschemie.de
· **1.4 Emergency telephone number:**
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland
Phone: +49 (0)551 19240

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 *V - 2* *Revision: 21.11.2018*

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 1)

GHS07

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H336	May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**

GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]bismethacrylate
acetone
trimethylolpropane triacrylate
butan-1-ol
· **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:** Contains : Preservative

· **Active substance (528/2012/EC)**			
55406-53-6	3-Iodo-2-propynylbutylcarbamate	*	0,008%

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 *V - 2* *Revision: 21.11.2018*

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 2)

· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

*

SECTION 3: Composition/information on ingredients

· ***3.2 Chemical characterisation: Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 115-10-6 *EINECS: 204-065-8* *Reg.nr.: 01-2119472128-37*	*dimethyl ether* *Flam. Gas 1, H220; Press. Gas C, H280*	*25-50%*
CAS: 67-64-1 *EINECS: 200-662-2* *Reg.nr.: 01-2119471330-49*	*acetone* *Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336*	*20-<25%*
CAS: 1565-94-2	*(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]bismethacrylate* *Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317*	*3-<10%*
CAS: 1330-20-7 *EINECS: 215-535-7* *Reg.nr.: 01-2119488216-32*	*xylene, mixture of isomers* *Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315*	*1-<3%*
CAS: 71-36-3 *EINECS: 200-751-6* *Reg.nr.: 01-2119484630-38*	*butan-1-ol* *Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336*	*1-<3%*
CAS: 15625-89-5 *EINECS: 239-701-3*	*trimethylolpropane triacrylate* *Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317*	*1-<3%*
CAS: 1318-59-8 *EINECS: 215-285-9*	*Chlorite, minerals* *Eye Irrit. 2, H319*	*1-<3%*
CAS: 7575-23-7 *EINECS: 231-472-8*	*pentaerythritol tetrakis (3-mercapto propionate)* *Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317*	*0.3-<1%*
CAS: 7779-90-0 *EINECS: 231-944-3* *Reg.nr.: 01-2119485044-40*	*trizinc bis(orthophosphate)* *Aquatic Acute 1, H400; Aquatic Chronic 1, H410*	*0.1-<0.3%*
CAS: 162881-26-7 *ELINCS: 423-340-5* *Reg.nr.: 01-2119489401-38*	*phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide* *Skin Sens. 1, H317; Aquatic Chronic 4, H413*	*0.1-<0.3%*
CAS: 2634-33-5 *EINECS: 220-120-9*	*1,2-benzisothiazol-3(2H)-one* *Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317*	*<0.01%*

· ***Additional information:*** *For the wording of the listed hazard phrases refer to section 16.*

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 *V - 2* *Revision: 21.11.2018*

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 3)

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Personal protection for the First Aider.
Take affected persons out of danger area and lay down.
Immediately remove any clothing soiled by the product.
· **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation occurs: Get medical advice/attention.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
Call a POISON CENTER/doctor if you feel unwell.
· **4.2 Most important symptoms and effects, both acute and delayed**
Dizziness
Dizziness
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
· **5.3 Advice for firefighters**
· **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.
· **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with the eyes and skin.
Ensure adequate ventilation
Do not inhale gases / fumes / aerosols.
Keep away from ignition sources.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 V - 2 Revision: 21.11.2018

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 4)

· **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Fumes can combine with air to form an explosive mixture.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Ground/bond container and receiving equipment.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
· **Information about storage in one common storage facility:** Store away from foodstuffs.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Protect from heat and direct sunlight.
· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
115-10-6 dimethyl ether	
WEL (Great Britain)	Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm
IOELV (EU)	Long-term value: 1920 mg/m³, 1000 ppm
67-64-1 acetone	
WEL (Great Britain)	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
IOELV (EU)	Long-term value: 1210 mg/m³, 500 ppm

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 V - 2 Revision: 21.11.2018

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 5)

1330-20-7 xylene, mixture of isomers	
WEL (Great Britain)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin
71-36-3 butan-1-ol	
WEL (Great Britain)	Short-term value: 154 mg/m³, 50 ppm Sk

· **DNELs**

67-64-1 acetone		
Oral	Long-term exposure - systemic effects	62 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	62 mg/kg bw/day (general population)
		186 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	200 mg/m³ (general population)
		1,210 mg/m³ (worker)
	Acute/short-term exposure - local effects	2,420 mg/m³ (worker)
1330-20-7 xylene, mixture of isomers		
Oral	Long-term exposure - systemic effects	1.6 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	108 mg/kg bw/day (general population)
		180 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	14.8 mg/m³ (general population)
		77 mg/m³ (worker)
	Acute/short-term exposure - systemic effects	174 mg/m³ (general population)
		289 mg/m³ (worker)
	Acute/short-term exposure - local effects	174 mg/m³ (general population)
		289 mg/m³ (worker)
15625-89-5 trimethylolpropane triacrylate		
Oral	Long-term exposure - systemic effects	0.5 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	42 mg/kg bw/day (general population)
		83 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	0.87 mg/m³ (general population)
		3.5 mg/m³ (worker)
7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)		
Dermal	Long-term exposure - systemic effects	3.4 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	2.39 mg/m³ (worker)
	Acute/short-term exposure - local effects	40.13 mg/m³ (worker)
	Long-term exposure - local effects	40.13 mg/m³ (worker)
7779-90-0 trizinc bis(orthophosphate)		
Oral	Long-term exposure - systemic effects	0.83 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	83 mg/kg bw/day (general population)
		83 mg/kg bw/day (worker)

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 *V - 2* *Revision: 21.11.2018*

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 6)

Inhalative	Long-term exposure - systemic effects	2.5 mg/m³ (general population) 5 mg/m³ (worker)

· **PNECs**

67-64-1 acetone	
PNEC aqua	10.6 mg/l (freshwater) 1.06 mg/l (marine water) 21 mg/l (intermittent releases)
PNEC sediment	30.4 mg/kg (freshwater) 3.04 mg/kg (marine water)
PNEC STP	100 mg/l
PNEC soil	29.5 mg/kg
1330-20-7 xylene, mixture of isomers	
PNEC aqua	327 mg/l (freshwater) 327 mg/l (marine water) 327 mg/l (intermittent releases)
PNEC sediment	12.46 mg/kg (freshwater) 12.46 mg/kg (marine water)
15625-89-5 trimethylolpropane triacrylate	
PNEC aqua	0.00087 mg/l (freshwater) 0.000147 mg/l (marine water) 0.0087 mg/l (intermittent releases)
PNEC sediment	0.0017 mg/kg (freshwater) 0.002 mg/kg (marine water)
PNEC STP	6.25 mg/l
PNEC soil	0.003 mg/kg (soil dw)
7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)	
PNEC aqua	0.00003 mg/l (freshwater) 0.0000034 mg/l (marine water) 0.00034 mg/l (intermittent releases)
PNEC sediment	0.00102 mg/kg (freshwater) 0.000102 mg/kg (marine water)
PNEC STP	2.39 mg/l
PNEC soil	0.000184 mg/kg (soil dw)
7779-90-0 trizinc bis(orthophosphate)	
PNEC aqua	0.0206 mg/l (freshwater) 0.0061 mg/l (marine water)
PNEC sediment	117.8 mg/kg (freshwater) 56.5 mg/kg (marine water)
PNEC STP	0.1 mg/l
PNEC soil	35.6 mg/kg (soil dw)

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 V - 2 Revision: 21.11.2018

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 7)

· **Ingredients with biological limit values:**	
1330-20-7 xylene, mixture of isomers	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.
Keep away from foodstuffs, beverages and feed.
Do not eat, drink, smoke or sniff while working.
Store protective clothing separately.
After contact with skin, wash immediately with plenty of soap and water.
Take off contaminated clothing.
Use skin protection cream for skin protection.
· **Respiratory protection:**
Ensure good ventilation/exhaustion at the workplace.
Adhere to the workplace limit values and / or other threshold values.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Filter A/P2
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Check the permeability prior to each anewed use of the glove.
Preventive skin protection by use of skin-protecting agents is recommended.
· **Material of gloves**
DIN EN 374
Chloroprene rubber, CR
Recommended thickness of the material: ≥ 0.65 mm
Butyl rubber, BR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
Value for the permeation: Level ≤ 6 (≥ 480 min)
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 *V - 2* *Revision: 21.11.2018*

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 8)

· **Eye protection:**
DIN EN 166

Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Aerosol
Colour:	Different according to colouring
· **Odour:**	Characteristic
· **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Not applicable, as aerosol.
· **Flash point:**	<0 °C
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapour pressure:**	Not determined.
· **Density at 20 °C:**	1 g/cm³
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No decomposition if used according to specifications.
· **10.2 Chemical stability** No decomposition if used and stored according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid**
Protect from heat and direct sunlight.
Avoid naked flames, sparks, other ignition sources and sunlight.
· **10.5 Incompatible materials:** No further relevant information available.

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 *V - 2* *Revision: 21.11.2018*

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 9)

· **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.

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SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
115-10-6 dimethyl ether		
Inhalative	LC50 /4h	308 mg/l (rat)
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat) (OECD 401)
Dermal	LD 50	>15,800 mg/kg (rabbit)
Inhalative	LC50 /4h	76 mg/l (rat)
1330-20-7 xylene, mixture of isomers		
Oral	LD 50	>4,000 mg/kg (rat)
Dermal	LD 50	>1,700 mg/kg (rabbit)
Inhalative	LC 50 / 4h	21.7 mg/l (rat) (Vapour)
71-36-3 butan-1-ol		
Oral	LD50	2,292 mg/kg (rat)
Dermal	LD50	3,400 mg/kg (rabbit)
Inhalative	LC50 /4h	25 mg/m³ (rat)
15625-89-5 trimethylolpropane triacrylate		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	5,170 mg/kg (rabbit)
Inhalative	LC50 /6h	>0.55 mg/l (rat)
7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)		
Oral	LD50	1,000-2,000 mg/kg (rat)
Inhalative	LC50 /4h	>3,363 mg/l (rat)
7779-90-0 trizinc bis(orthophosphate)		
Oral	LD 50	>5,000 mg/kg (rat)
Inhalative	LC50 /4h	552 mg/l (mouse)
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Oral	LD50	1,193 mg/kg (rat)
Dermal	LD50	4,115 mg/kg (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation**
Causes skin irritation.
· **Serious eye damage/irritation**
Causes serious eye irritation.

(Contd. on page 11)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 V - 2 Revision: 21.11.2018

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 10)

· **Subacute to chronic toxicity:**		
67-64-1 acetone		
Oral	NOAEL	900 mg/kg (rat) (OECD 408, rat (male), 13 weeks)
71-36-3 butan-1-ol		
Oral	NOAEL (subchronic)	125 mg/kg (rat)
	LOAEL (subchronic)	500 mg/kg (rat)
Inhalative	NOAEL (subchronic)	2.35 mg/m³ (rat)
15625-89-5 trimethylolpropane triacrylate		
Oral	NOAEL	300 mg/kg (rat) (28d)
Dermal	NOAEL	>200 mg/kg (rat) (16d)

· **Sensitisation**
Sensitisation possible through skin contact.
May cause an allergic skin reaction.
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
No further relevant information available.
· **Reproductive toxicity/Fertility**
No further relevant information available.

71-36-3 butan-1-ol		
Inhalative	NOAEL (fertility)	1,125 mg/l (rat, parents) (OECD 416)
		1,125 mg/l (rat, F2) (OECD 416)
		1,125 mg/l (rat, F1) (OECD 416)

· **Reproductive toxicity/Teratogenicity**		
71-36-3 butan-1-ol		
Oral	NOAEL (teratogenicity)	5,654 mg/kg (rat)
Inhalative	NOAEL (teratogenicity)	24.7 mg/l (rat)
15625-89-5 trimethylolpropane triacrylate		
Oral	NOAEL (developmental toxicity)	300 mg/kg (rat) (7d)

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure**
May cause drowsiness or dizziness.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
115-10-6 dimethyl ether	
EC50/48h	>4.4 mg/l (daphnia magna)
LC50/96h	>4.1 mg/l (poecilia reticulata)
67-64-1 acetone	
EC10	530 mg/l (Microcystis aeruginosa) (8 d)

(Contd. on page 12)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 *V - 2* *Revision: 21.11.2018*

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 11)

EC10/0,5h	1,000 mg/l (bacteria)
EC50/48h	8,800 mg/l (daphnia)
LC50/96h	8,300 mg/l (Lepomis macrochirus)
	5,540 mg/l (oncorhynchus mykiss)
NOEC	2,212 mg/l (daphnia magna) (OECD 211, 28 d)
1330-20-7 xylene, mixture of isomers	
EC50	>175 mg/l (activated slugde)
EC50/48h	3.82 mg/l (daphnia magna)
	8.5 mg/l (palaemonetes pugio) (marine water)
EC50/72h	4.7 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>780 mg/l (Cyprinus carpio)
	13.1-16.5 mg/l (Lepomis macrochirus)
	7.6 mg/l (oncorhynchus mykiss)
	13.4 mg/l (pimephales promelas)
NOEC	>1.3 mg/l (oncorhynchus mykiss) (56 d)
71-36-3 butan-1-ol	
EC50/48h	1,983 mg/l (daphnia magna)
EC50/72h	>500 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	1,730 mg/l (pimephales promelas)
15625-89-5 trimethylolpropane triacrylate	
EC50/48h	19.9 mg/l (daphnia magna) (440/2008, Apendix C.2)
EC50/96h	18.8 mg/l (scenedesmus subspicatus) (440/2008, Apendix C.3)
EC50/0.5h	625 mg/l (activated slugde)
LC50/96h	0.87 mg/l (danio rerio) (OECD 203)
7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)	
EC50	>0.65 mg/l (desmodesmus subspicatus)
EL50/48h	>0.35 mg/l (daphnia magna)
LC50/96h	34 mg/l (oncorhynchus mykiss) (OECD 203)
7779-90-0 trizinc bis(orthophosphate)	
M Factor	1 (acute)
	1 (chronic)
LC50/96h	0.09 mg/l (oncorhynchus mykiss)
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	
EC50/48h	1,175 mg/l (daphnia magna)
EC50/72h	260 mg/l (desmodesmus subspicatus)
LC50/96h	90 mg/l (danio rerio)
2634-33-5 1,2-benzisothiazol-3(2H)-one	
EC50/48h	2.94 mg/l (daphnia magna) (OECD - 201)
EC50/72h	0.11 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	2.18 mg/l (oncorhynchus mykiss) (OECD 203)

(Contd. on page 13)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 *V - 2* *Revision: 21.11.2018*

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 12)

· **12.2 Persistence and degradability**

67-64-1 acetone	
BSB (BOD)	1,760 mg/g
Biodegradation	91 % (OECD 301B, 28 d)
1330-20-7 xylene, mixture of isomers	
Biodegradation	87.8 % (28d)
71-36-3 butan-1-ol	
Biodegradation	92 % (20d)
15625-89-5 trimethylolpropane triacrylate	
Biodegradation	82-90 % (28d, OECD 301)
7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)	
Biodegradation	26 % (OECD 301 B, 28d, aerobic)

· **12.3 Bioaccumulative potential**

67-64-1 acetone	
log Pow	≤0.24
BCF	3
1330-20-7 xylene, mixture of isomers	
log Pow	>3
BCF	6-23.4 (oncorhynchus mykiss)
71-36-3 butan-1-ol	
log Pow	1
BCF	3.16
15625-89-5 trimethylolpropane triacrylate	
log Pow	4.35 (OECD 107)
BCF	300
7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)	
log Pow	3.03
BCF	23.7
2634-33-5 1,2-benzisothiazol-3(2H)-one	
log Pow	1.3

· **Behaviour in environmental systems:**

· **12.4 Mobility in soil**

71-36-3 butan-1-ol	
log Koc	0.388 (Calculation method)
7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)	
log Koc	2.54
Koc	347

· **Ecotoxical effects:**
· **Remark:** Harmful to aquatic organisms
· **Additional ecological information:**
· **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

(Contd. on page 14)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 V - 2 Revision: 21.11.2018

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 13)

· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· **Waste disposal key:**
The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· **Uncleaned packaging:**
· **Recommendation:**
Packagings that may not be cleansed are to be disposed of in the same manner as the product.
Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1950
· **14.2 UN proper shipping name**	
· **ADR**	1263 PAINT
· **IMDG, IATA**	AEROSOLS
· **14.3 Transport hazard class(es)**	
· **ADR**	
· **Class**	2 5F Gases.
· **Label**	2.1
· **IMDG, IATA**	
· **Class**	2 Gases.
· **Label**	2.1
· **14.5 Environmental hazards:**	Not applicable.
· **14.6 Special precautions for user**	Warning: Gases.
· **Danger code (Kemler):**	23
· **EMS Number:**	F-D,S-U
· **Stowage Code**	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre:

(Contd. on page 15)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 V - 2 Revision: 21.11.2018

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 14)

·	Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· **Segregation Code**	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **Transport category**	2
· **Tunnel restriction code**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity

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SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **European regulations**
· **Directive 2004/42/EC** 2004/42/IIB (e) (840) <840
· **Regulation EU 528/2012**
treated article
Contains : Preservative

55406-53-6	3-Iodo-2-propynylbutylcarbamate	<0,01%
2634-33-5	1,2-benzisothiazol-3(2H)-one	<0,01%
2682-20-4	2-methyl-2H-isothiazol-3-one	<0,01%
52-51-7	bronopol (INN)	<0,01%

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** P5c FLAMMABLE LIQUIDS
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40

· **National regulations:**

· **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
· **Other regulations, limitations and prohibitive regulations**
Adhere to the Ordinances on the Prohibition of Certain Chemicals.

(Contd. on page 16)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.11.2018 *V - 2* *Revision: 21.11.2018*

Trade name: CARSYSTEM UV Filler Spray

(Contd. of page 15)

· ***15.2 Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Relevant phrases***
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

· ***Classification according to Regulation (EC) No 1272/2008*** ***Classification procedure***

Aerosol 1, H222-H229	*Bridging principle "Substantially similar mixtures"*
Skin. Irrit.2,H315	*Calculation method*
Eye Irrit.2,H319	*Calculation method*
Skin. Sens.1,H317	*Calculation method*
STOT SE 3,H336	*Calculation method*
Aquatic Chronic 3,H412	*Calculation method*

· ***Department issuing SDS:*** *Abteilung Labor*
· ***Contact:*** *Frau S. Schaller*
· ***Abbreviations and acronyms:***
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3

(Contd. on page 17)

Safety data sheet
according to 1907/2006/EC, Article 31

(Contd. of page 16)

Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· **** Data compared to the previous version altered.***