

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

Printing date 05.04.2017

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Revision: 05.04.2017

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

- **1.1 Product identifier**
 - **Trade name:** CARSYSTEM UV Filler
 - **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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

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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

2,2-bis(acryloyloxymethyl)butyl acrylate
 pentaerythritol tetrakis (3-mercapto propionate)

· **Hazard statements**

H225 Highly flammable liquid and vapour.
 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.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P261 Avoid breathing mist/vapours/spray.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:** Contains : Preservative

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· **Active substance (528/2012/EC)**

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

- **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: 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	18-32%
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	15-25%
CAS: 15625-89-5 EINECS: 239-701-3 Reg.nr.: 01-2119489896-11	2,2-bis(acryloyloxymethyl)butyl acrylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	4.0-7.0%
CAS: 1318-59-8 EINECS: 215-285-9	Chlorite, minerals ⚠ Eye Irrit. 2, H319	2.0-5.0%
CAS: 84434-11-7 EINECS: 282-810-6	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate Aquatic Chronic 3, H412	2.0-4.0%
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	1.0-2.0%
CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40	trizinc bis(orthophosphate) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1.0-2.0%
CAS: 162881-26-7 ELINCS: 423-340-5	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide ⚠ Skin Sens. 1, H317; Aquatic Chronic 4, H413	0.1-<1.0%
CAS: 55406-53-6 EINECS: 259-627-5	3-Iodo-2-propynylbutylcarbamate ⚠ Acute Tox. 3, H331; ⚠ STOT RE 1, H372; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	<0.1%
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	<0.1%

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CAS: 2682-20-4 EINECS: 220-239-6	2-methyl-2H-isothiazol-3-one ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Skin Sens. 1A, H317; STOT SE 3, H335	<0.1%
CAS: 52-51-7 EINECS: 200-143-0	bronopol (INN) ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	<0.1%

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

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.

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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.

· 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.**SECTION 8: Exposure controls/personal protection**

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

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· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

67-64-1 acetone

WEL (Great Britain)	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
IOELV (EU)	Long-term value: 1210 mg/m ³ , 500 ppm

· **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/m ³ (general population) 1210 mg/m ³ (worker)
	Acute/short-term exposure - local effects	2420 mg/m ³ (worker)

15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate

Oral	Long-term exposure - systemic effects	1.39 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	0.48 mg/kg bw/day (general population) 0.8 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	4.9 mg/m ³ (general population) 16.2 mg/m ³ (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/m ³ (worker)
	Acute/short-term exposure - local effects	40.13 mg/m ³ (worker)
	Long-term exposure - local effects	40.13 mg/m ³ (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)
Inhalative	Long-term exposure - systemic effects	2.5 mg/m ³ (general population) 5 mg/m ³ (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

15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate

PNEC aqua	0.00147 mg/l (freshwater)
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<i>PNEC sediment</i>	0.000147 mg/l (marine water) 0.0147 mg/l (intermittent releases) 0.0062 mg/kg (freshwater)
<i>PNEC STP</i>	0.00062 mg/kg (marine water) 6.25 mg/l
<i>PNEC soil</i>	0.0043 mg/kg (soil dw)
7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)	
<i>PNEC aqua</i>	0.00003 mg/l (freshwater) 0.0000034 mg/l (marine water) 0.00034 mg/l (intermittent releases)
<i>PNEC sediment</i>	0.00102 mg/kg (freshwater) 0.000102 mg/kg (marine water)
<i>PNEC STP</i>	2.39 mg/l
<i>PNEC soil</i>	0.000184 mg/kg (soil dw)
7779-90-0 trizinc bis(orthophosphate)	
<i>PNEC aqua</i>	0.0206 mg/l (freshwater) 0.0061 mg/l (marine water)
<i>PNEC sediment</i>	117.8 mg/kg (freshwater) 56.5 mg/kg (marine water)
<i>PNEC STP</i>	0.052 mg/l
<i>PNEC soil</i>	35.6 mg/kg (soil dw)

· **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

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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 renewed 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



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:	Fluid
Colour:	Different according to colouring
Odour:	Characteristic

· **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	56 °C

· **Flash point:** -19 °C

· **Ignition temperature:** Not determined

· **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

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- | | |
|--|--|
| · 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** Avoid naked flames, sparks, other ignition sources and sunlight.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.

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:**

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 7400 mg/kg (rat) > 15800 mg/kg (rabbit)
Inhalative	LC50 /4h	76 mg/l (rat)

15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate

Oral	LD 50	> 5000 mg/kg (rat)
Dermal	LD50	5170 mg/kg (rabbit)
Inhalative	LC50 /6h	> 0.55 mg/l (rat)

84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

Oral	LD 50	2000 mg/kg (rat)
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7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)

Oral	LD50	1000-2000 mg/kg (rat)
Inhalative	LC50 /4h	>3363 mg/l (rat)

7779-90-0 trizinc bis(orthophosphate)

Oral	LD 50	>5000 mg/kg (rat)
Inhalative	LC50 /4h	552 mg/l (mouse)

55406-53-6 3-Iodo-2-propynylbutylcarbamate

Oral	LD50	>300 -<500 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rat)

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2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	1193 mg/kg (rat)
Dermal	LD50	4115 mg/kg (rat)

2682-20-4 2-methyl-2H-isothiazol-3-one

Oral	LD50	120 mg/kg (rat)
Dermal	LD50	242 mg/kg (rabbit)

52-51-7 bronopol (INN)

Oral	LD50	305 mg/kg (rat) (OECD 401)
Dermal	LD50	> 2000 mg/kg (rat) (OECD 402)
Inhalative	LC50 /4h	0.588 mg/l (rat) (Aerosol)

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

· **Subacute to chronic toxicity:**

67-64-1 acetone

Oral	NOAEL	900 mg/kg (rat) (OECD 408, rat (male), 13 weeks)
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15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate

Oral	NOAEL	>250 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 (carcinogenicity, mutagenicity and toxicity for reproduction)**
No further relevant information available.

· **Carcinogenicity**

15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate

Dermal	NOAEL (carcinogenicity)	50 mg/kg (mouse) (80 weeks)
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· **Reproductive toxicity/Teratogenicity**

15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate

Oral	NOAEL (developmental toxicity)	500 mg/kg (rat) (10d)
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- **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:

67-64-1 acetone

EC10	530 mg/l (<i>Microcystis aeruginosa</i>) (8 d)
EC10/0,5h	1000 mg/l (bacteria)
EC50/48h	8800 mg/l (<i>daphnia</i>)
LC50/96h	8300 mg/l (<i>Lepomis macrochirus</i>) 5540 mg/l (<i>oncorhynchus mykiss</i>)
NOEC	2212 mg/l (<i>daphnia magna</i>) (OECD 211, 28 d)

15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate

EC50/48h	19.9 mg/l (<i>daphnia magna</i>) (440/2008, Apendix C.2)
EC50/96h	4.86 mg/l (<i>scenedesmus subspicatus</i>) (440/2008, Apendix C.3)
EC50/0.5h	625 mg/l (activated slugde)
LC50/96h	1.47 mg/l (<i>leuciscus idus</i>) (440/2008, Apendix C.1)

84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

EC50/48h	10-100 mg/l (<i>daphnia magna</i>)
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7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)

EC50	>0.65 mg/l (<i>desmodesmus subspicatus</i>)
EL50/48h	>0.35 mg/l (<i>daphnia magna</i>)
LC50/96h	0.034 mg/l (<i>oncorhynchus mykiss</i>) (OECD 203)

7779-90-0 trizinc bis(orthophosphate)

M Factor	1 (acute) 1 (chronic)
LC50/96h	0.09 mg/l (<i>oncorhynchus mykiss</i>)

55406-53-6 3-Iodo-2-propynylbutylcarbamate

EC50/48h	0.16 mg/l (<i>daphnia magna</i>)
EC50/72h	0.022 mg/l (<i>scenedesmus subspicatus</i>) 0.053 mg/l (<i>desmodesmus subspicatus</i>)
EC50/3h	44 mg/l (activated slugde)
LC50/96h	0.067 mg/l (<i>oncorhynchus mykiss</i>) (OECD 203)
NOEC (aqua chron.)	0.0046 mg/l (<i>scenedesmus subspicatus</i>) (72h) 0.0084 mg/l (<i>pimephales promelas</i>) (35d)

2634-33-5 1,2-benzisothiazol-3(2H)-one

EC50/48h	2.94 mg/l (<i>daphnia magna</i>) (OECD - 201)
EC50/72h	0.11 mg/l (<i>Pseudokirchneriella subcapitata</i>)
LC50/96h	2.18 mg/l (<i>oncorhynchus mykiss</i>) (OECD 203)

2682-20-4 2-methyl-2H-isothiazol-3-one

EC50/48h	0.93-1.9 mg/l (<i>daphnia magna</i>)
EC50/72h	0.158 mg/l (<i>Selenastrum capricornutum</i>)
LC50/96h	4.77 mg/l (<i>oncorhynchus mykiss</i>)

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NOEC	0.04 mg/l (<i>daphnia magna</i>) (OECD 211 (21d))
52-51-7 bronopol (INN)	
M Factor	10 (<i>acute</i>)
EC50	39.1 mg/l (<i>oncorhynchus mykiss</i>) (<i>aqua chron.</i> , 49d, OECD 210)
EC50/48h	1.4 mg/l (<i>daphnia magna</i>)
EC50/72h	0.4- 2.8 mg/l (<i>Selenastrum capricornutum</i>)
LC50/96h	41.2 mg/l (<i>oncorhynchus mykiss</i>)
NOEC (<i>aqua chron.</i>)	0.27 mg/l (<i>daphnia magna</i>) (OECD 211, 21d)
· 12.2 Persistence and degradability	
67-64-1 acetone	
BSB (BOD)	1760 mg/g
Biodegradation	91 % (OECD 301B, 28 d)
15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate	
Biodegradation	82-90 % (28d, OECD 301)
7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)	
Biodegradation	26 % (OECD 301 B, 28d, aerobic)
55406-53-6 3-Iodo-2-propynylbutylcarbamate	
Biodegradation	21 - 25 % (OECD 301F, 38d)
52-51-7 bronopol (INN)	
Biodegradation	50 % (OECD 302B)
· 12.3 Bioaccumulative potential	
67-64-1 acetone	
log Pow	-0.24
BCF	3
15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate	
log Pow	0.67 (OECD 107)
84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	
log Kow	2.91
7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)	
log Pow	3.03
BCF	23.7
55406-53-6 3-Iodo-2-propynylbutylcarbamate	
log Pow	2.81 (OECD 107)
BCF	16 - 36
2634-33-5 1,2-benzisothiazol-3(2H)-one	
log Pow	1.3
2682-20-4 2-methyl-2H-isothiazol-3-one	
log Pow	-0.486
52-51-7 bronopol (INN)	
log Pow	0.18

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· **Behaviour in environmental systems:**

· **12.4 Mobility in soil**

7575-23-7 pentaerythritol tetrakis (3-mercapto propionate)

log Koc 2.54

Koc 347

· **Ecotoxicological 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.

· **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**

UN1263

· **14.2 UN proper shipping name**

· **ADR**

1263 PAINT

· **IMDG, IATA**

PAINT

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

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· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E, S-E B
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- European regulations
- Regulation EU 528/2012
treated article
Contains : Preservative

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

- 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
- 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.

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· **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**

- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful 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**

- Flam. Liq.2, H225
- Skin. Irrit.2, H315
- Skin. Sens.1, H317
- Eye Irrit.2, H319
- STOT SE 3, H336
- Aquatic Chronic 3, H412

Classification procedure

- Bridging principle "Substantially similar mixtures"
- Calculation method
- Calculation method
- Calculation method
- Calculation method
- 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

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Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
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
Skin Sens. 1A: Skin sensitisation – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
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

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