

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

Version number 10 (replaces version 9)

Revision: 31.05.2023

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

1.1 Product identifier

Trade name: **UV-Fillers**

Article number: 11106, 11109, 11110, 11112, 11122, 11123, 11186, 11188

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture

Knife filler/ Surfacer

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3	H226	Flammable liquid and vapour.
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.
Repr. 2	H361d	Suspected of damaging the unborn child.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 1	H372	Causes damage to the hearing organs through prolonged or repeated exposure.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02 GHS07 GHS08

Signal word

Danger

Hazard-determining components of labelling:

styrene
maleic anhydride
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.
H335 May cause respiratory irritation.

Hazard statements

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<u>Precautionary statements</u>	<p>H372 Causes damage to the hearing organs through prolonged or repeated exposure.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p> <p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> <p>P103 Read carefully and follow all instructions.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P260 Do not breathe vapours.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves / eye protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
<u>2.3 Other hazards</u>	
<u>Results of PBT and vPvB assessment</u>	
<u>PBT:</u>	Not applicable.
<u>vPvB:</u>	Not applicable.
<u>Determination of endocrine-disrupting properties</u>	For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 100-42-5 EINECS: 202-851-5 Index number: 601-026-00-0 Reg.nr.: 01-2119457861-32	styrene Flam. Liq. 3, H226 Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	25-50%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3 Reg.nr.: 01-2119471310-51	toluene Flam. Liq. 2, H225 Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336 Aquatic Chronic 3, H412	<1%
CAS: 75980-60-8 EINECS: 278-355-8 Index number: 015-203-00-X Reg.nr.: 01-2119972295-29-0000	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide Repr. 2, H361f Aquatic Chronic 2, H411 Skin Sens. 1B, H317	<1%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg.nr.: 01-2119433307-44	methanol Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C \geq 10 % STOT SE 2; H371: 3 % \leq C < 10 %	<1%

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CAS: 108-31-6
 EINECS: 203-571-6
 Index number: 607-096-00-9
 Reg.nr.: 01-2119472428-31

maleic anhydride
 Resp. Sens. 1, H334; STOT RE 1, H372
 Skin Corr. 1B, H314; Eye Dam. 1, H318
 Acute Tox. 4, H302; Skin Sens. 1A, H317
 EUH071
 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %

<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: Immediately remove any clothing soiled by the product.
 Take affected persons out into the fresh air.
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
 Position and transport stably in side position.
- After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm.
 Consult doctor if symptoms persist.
 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 continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
 Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Hazards
 Headache
 Dizziness
 Dizziness
 Nausea
 Danger of impaired breathing.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

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.
 In case of fire, the following can be released:
 Carbon monoxide (CO)
 Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.
 Do not inhale explosion gases or combustion gases.
 Wear fully protective suit.

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- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
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).
Ensure adequate ventilation.
Dispose of the material collected according to regulations.
- **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** Ensure good ventilation/exhaustion at the workplace.
Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Use only in well ventilated areas.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Protect from heat.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
Store only in the original receptacle.
Prevent any seepage into the ground.
- Information about storage in one common storage facility: Store away from oxidising agents.
Store away from foodstuffs.
- Further information about storage conditions: Protect from heat and direct sunlight.
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Keep container tightly sealed.
- Storage class: 3

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· **7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection**· **8.1 Control parameters**· Ingredients with limit values that require monitoring at the workplace:**108-88-3 toluene**

IOELV	Short-term value: 384 mg/m ³ , 100 ppm
	Long-term value: 192 mg/m ³ , 50 ppm
	Skin

67-56-1 methanol

IOELV	Long-term value: 260 mg/m ³ , 200 ppm
	Skin

· DNELs**100-42-5 styrene**

Oral	DNEL (Langzeit-wiederholt)	2.1 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	406 mg/kg bw/day (ARB)
		343 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	289-306 mg/m ³ Air (ARB)
		174.25-182.75 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	85 mg/m ³ Air (ARB)
		10.2 mg/m ³ Air (BEV)

108-88-3 toluene

Oral	DNEL (Langzeit-wiederholt)	8.13 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	384 mg/kg bw/day (ARB)
		226 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	384 mg/m ³ Air (ARB)
		226 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	192 mg/m ³ Air (ARB)
		56.5 mg/m ³ Air (BEV)

75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Oral	DNEL (Langzeit-wiederholt)	0.0833 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	0.233 mg/kg bw/day (ARB)
		0.0833 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	0.822 mg/m ³ Air (ARB)
		0.145 mg/m ³ Air (BEV)

67-56-1 methanol

Oral	DNEL (Kurzzeit-akut)	4 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	4 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	20 mg/kg bw/day (ARB)
		4 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	20 mg/kg bw/day (ARB)
		4 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	130 mg/m ³ Air (ARB)
		26 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	130 mg/m ³ Air (ARB)

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		26 mg/m ³ Air (BEV)
108-31-6 maleic anhydride		
Oral	DNEL (Langzeit-wiederholt)	0.06 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	0.04 mg/kg bw/day (ARB)
	DNEL (Langzeit-wiederholt)	0.2 mg/kg bw/day (ARB)
Inhalative		0.1 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	0.2 mg/m ³ Air (ARB)
	DNEL (Langzeit-wiederholt)	0.081 mg/m ³ Air (ARB)
		0.08 mg/m ³ Air (BEV)

· PNECs

100-42-5 styrene		
PNEC (wässrig)		5 mg/l (KA)
		0.014 mg/l (MW)
		0.028 mg/l (SW)
		0.04 mg/l (WAS)
PNEC (fest)		0.2 mg/kg Trockengew (BO)
		0.307 mg/kg Trockengew (MWS)
		0.614 mg/kg Trockengew (SWS)
108-88-3 toluene		
PNEC (wässrig)		13.61 mg/l (KA)
		0.68 mg/l (MW)
		0.68 mg/l (SW)
		0.68 mg/l (WAS)
PNEC (fest)		2.89 mg/kg Trockengew (BO)
		16.39 mg/kg Trockengew (MWS)
		16.39 mg/kg Trockengew (SWS)
75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide		
PNEC (wässrig)		0.00014 mg/l (MW)
		0.0014 mg/l (SW)
		0.014 mg/l (WAS)
PNEC (fest)		0.0222 mg/kg Trockengew (BO)
		0.0115 mg/kg Trockengew (MWS)
		0.115 mg/kg Trockengew (SWS)
67-56-1 methanol		
PNEC (wässrig)		100 mg/l (KA)
		2.08 mg/l (MW)
		20.8 mg/l (SW)
		1,540 mg/l (WAS)
PNEC (fest)		100 mg/kg Trockengew (BO)
		7.7 mg/kg Trockengew (MWS)
		77 mg/kg Trockengew (SWS)
108-31-6 maleic anhydride		
PNEC (wässrig)		44.6 mg/l (KA)
		0.0038 mg/l (MW)
		0.038 mg/l (SW)

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PNEC (fest)	0.4281 mg/l (WAS)
	0.037 mg/kg Trockengew (BO)
	0.0296 mg/kg Trockengew (MWS)
	0.296 mg/kg Trockengew (SWS)

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

· **8.2 Exposure controls**

· Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

· Respiratory protection: 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.

Short term filter device:

Filter AX

· Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

ARRETIL (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

Kresto Classic (<http://debstoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)



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

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type.

The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell,

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- internet: <http://www.kcl.de>.
- Material of gloves Fluorocarbon rubber (Viton)
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.
 - Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Value for the permeation: Level \leq 6, 480 min
 - For the permanent contact gloves made of the following materials are suitable: Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
 - As protection from splashes gloves made of the following materials are suitable: Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
Nitrile rubber, NBR
Camatril (KCL, 730, 731, 732, 733)
Butyl rubber, BR
Butoject (KCL, Art_No. 897, 898)
 - Not suitable are gloves made of the following materials: Natural rubber, NR
Neoprene gloves
Leather gloves
Strong material gloves
 - Eye/face 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
- Colour: According to product specification
- Odour: Specific type
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range 145 °C
- Lower and upper explosion limit
- Lower: 1.2 Vol %
- Upper: 8.9 Vol %
- Flash point: 32 °C
- Auto-ignition temperature: 480 °C
- pH Not determined.
Not applicable
- Viscosity:
- Kinematic viscosity Not determined.
- Dynamic at 20 °C: 4,000 mPas
- Solubility
- water: Not miscible or difficult to mix.
- Vapour pressure at 20 °C: 6 hPa
- Density and/or relative density
- Density at 20 °C: 1.13 g/cm³ ([1,12 - 1,15 g/cm³])

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9.2 Other information

- Appearance:
- Form: Fluid
- Important information on protection of health and environment, and on safety.
- Ignition temperature: Product is not selfigniting.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent content:
- Organic solvents: 37.3 %
- Solids content: 64.2 %

Information with regard to physical hazard classes

- Explosives Void
- Flammable gases Void
- Aerosols Void
- Oxidising gases Void
- Gases under pressure Void
- Flammable liquids Flammable liquid and vapour.
- Flammable solids Void
- Self-reactive substances and mixtures Void
- Pyrophoric liquids Void
- Pyrophoric solids Void
- Self-heating substances and mixtures Void
- Substances and mixtures, which emit flammable gases in contact with water Void
- Oxidising liquids Void
- Oxidising solids Void
- Organic peroxides Void
- Corrosive to metals Void
- Desensitised explosives Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Exothermic polymerisation.
Reacts with peroxides and other radical forming substances.
Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Flammable gases/vapours

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- Acute toxicity Based on available data, the classification criteria are not met.

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· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	58,962 mg/kg (rat)
Dermal	LD50	176,887 mg/kg
Inhalative	LC50/4 h	32 mg/l (rat)

100-42-5 styrene

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)
Inhalative	LC50/4h	9.5 mg/m3 (mouse)
		11,800 mg/m3 (rat)
	LC50/4 h	11.8 mg/l (rat)
	NOAEC	4.34 mg/l (rat)

108-88-3 toluene

Oral	LD50	5,580 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mus)
		25.7-30 mg/l (rat)
	LC50/48h	3.78 mg/l (daphnia magna)

75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD402)
	LC50/48h	6.53 mg/l (Oryzias latipes)

67-56-1 methanol

Oral	LD50	100 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
		300 mg/kg (rat)
Inhalative	LC50/4 h	128.2 mg/l (rat)

108-31-6 maleic anhydride

Oral	LD50	1,090-2,620 mg/kg (rabbit)
		400-480 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)
Inhalative	LC50/1h	>4.35 mg/l (rat)
	LC50/48h	138 mg/l (lem)

- | | |
|-------------------------------------|---|
| · Skin corrosion/irritation | Causes skin irritation. |
| · Serious eye damage/irritation | Causes serious eye irritation. |
| · Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| · 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 | Suspected of damaging the unborn child. |
| · STOT-single exposure | May cause respiratory irritation. |
| · STOT-repeated exposure | Causes damage to the hearing organs through prolonged or repeated exposure. |
| · Aspiration hazard | Based on available data, the classification criteria are not met. |

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information**· 12.1 Toxicity****· Aquatic toxicity:****100-42-5 styrene**

EC50/96h	6.3 mg/l (Pseudokirchneriella subcapitata)
EC50	500 mg/l (BES) (ISO Vorschrift 8192-1986 E)
	5.5 mg/l (Photobac. phosphoreum)
IC50/72h	4.9 mg/l (green alge)
	1.4 mg/l (selenastrum capricornutum)
IC5/8d	>200 mg/l (Scenedesmus quadricauda)
EC10/16h	72 mg/l (pseudomonas putida)
EC50/16h	>72 mg/l (pseudomonas putida)
EC50/8d	>200 mg/l (Scenedesmus quadricauda)
EC50/72u	>1-<10 mg/l (green alge)
EC20/0.5h	140 mg/l (BES) (OECD 209)
NOEC/21d	1.01 mg/l (daphnia magna)
EC10	0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)
EC50/48h	0.56 mg/l (green alge)
	3.3-7.4 mg/l (daphnia magna)
EC50/72h	0.46-4.3 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>1-<10 mg/l (piscis)
	19.03-33.53 mg/l (lem)
	3.24-4.99 mg/l (pimephales promelas)
	6.75-14.5 mg/l (Pimephales promelas)
	58.75-95.32 mg/l (poecilia reticulata)
LC50/72h	4.9 mg/l (green alge)

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EC50/24h	84 mg/l (BES)
	245 mg/l (CHV)
	8 mg/l (daphnia magna)
	10 mg/l (Pseudokirchneriella subcapitata)
EC50/96h	>433 mg/l (Pseudokirchneriella subcapitata)
IC50/72h	12 mg/l (Pseudokirchneriella subcapitata) (lit.)
	12 mg/l (Selenastrum capricornutum) (lit.)
EC50/48h	5.46-11.5 mg/l (daphnia magna) (lit.)
NOEC	0.74 mg/kg (daphnia magna)
EC50/48h	3.78 mg/l (daphnia magna)
EC50/72h	10 mg/l (green alge)
	12.5 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	5.5 mg/l (piscis)
	11-15 mg/l (lem)
	5.8-17 mg/l (Oncorhynchus mykiss) (lit.)
	54 mg/l (Oryzias latipes)
	12.6-19.05 mg/l (pimephales promelas)

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	7-28.2 mg/l (poecilia reticulata)
75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	
EC50/48h	3.53 mg/l (daphnia magna) (OECD 202)
EC20/3h	>1,000 mg/l (BES) (OECD 209)
EC10	1.56 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50/72h	>2.01 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
67-56-1 methanol	
EC50/96h	22,000 mg/l (Pseudokirchneriella subcapitata)
IC50	>1,000 mg/l (BES)
EC50/48h	>10,000 mg/l (daphnia magna)
LC50/96h	13,500-17,600 mg/l (Iem) 19,500-20,700 mg/l (Oncorhynchus mykiss) 28,200 mg/l (pimephales promelas)
108-31-6 maleic anhydride	
EC50/24h	316-330 mg/l (daphnia magna)
EC50	77 mg/l (daphnia magna)
EC10/18h	44.6 mg/l (pseudomonas putida)
EC50/48h	42.81 mg/l (daphnia magna)
ErC50/72h	74.35 mg/l (Pseudokirchneriella subcapitata) (OECD 202)
NOELR/72h	150 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	10 mg/l (daphnia magna)
EC50/72h	29 mg/l (Desmodesmus subspicatus) 74.32 mg/l (Pseudokirchneriella subcapitata) >150 mg/l (Selenastrum capricornutum)
LC50/96h	75 mg/l (Iepomis macrochirus) 75 mg/l (Oncorhynchus mykiss)

· **12.2 Persistence and degradability**

No further relevant information available.

· **12.3 Bioaccumulative potential**

No further relevant information available.

· **12.4 Mobility in soil**

No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:**

Not applicable.

· **vPvB:**

Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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.

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· European waste catalogue

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 27*	paint, inks, adhesives and resins containing hazardous substances

· Uncleaned packaging:· Recommendation:

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

· Recommended cleansing agents: Alcohol**SECTION 14: Transport information**· **14.1 UN number or ID number**· ADR, IMDG, IATA

UN1866

· **14.2 UN proper shipping name**· ADR

1866 RESIN SOLUTION

· IMDG, IATA

RESIN SOLUTION

· **14.3 Transport hazard class(es)**· ADR· Class

3 (F1) Flammable liquids.

· Label

3

· IMDG, IATA· Class

3 Flammable liquids.

· Label

3

· **14.4 Packing group**· ADR, IMDG, IATA

III

· **14.5 Environmental hazards:**· Marine pollutant:

No

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· Hazard identification number (Kemler code):

30

· EMS Number:

F-E, S-E

· Stowage Category

A

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

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· Transport/Additional information:

· <u>ADR</u>	5L
· <u>Limited quantities (LQ)</u>	Code: E1
· <u>Excepted quantities (EQ)</u>	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· <u>Transport category</u>	3
· <u>Tunnel restriction code</u>	D/E
· <u>Remarks:</u>	≤ 450 l: no dangerous good

· <u>IMDG</u>	5L
· <u>Limited quantities (LQ)</u>	Code: E1
· <u>Excepted quantities (EQ)</u>	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· <u>Remarks:</u>	≤ 450 l: no dangerous good

· <u>UN "Model Regulation":</u>	UN 1866 RESIN SOLUTION, 3, III
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SECTION 15: Regulatory information· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· Directive 2012/18/EU	
· <u>Named dangerous substances - ANNEX I</u>	None of the ingredients is listed.
· <u>Seveso category</u>	P5c FLAMMABLE LIQUIDS
· <u>Qualifying quantity (tonnes) for the application of lower-tier requirements</u>	5,000 t
· <u>Qualifying quantity (tonnes) for the application of upper-tier requirements</u>	50,000 t
· <u>REGULATION (EC) No 1907/2006 ANNEX XVII</u>	Conditions of restriction: 3, 48, 69

· <u>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</u>

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· <u>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</u>

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

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3

· <u>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</u>

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3

· National regulations:· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

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Employment restrictions concerning pregnant and lactating women must be observed.

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 421.9 g/l· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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.

· Department issuing SDS: Laboratory· Date of previous version: 07.12.2021· Version number of previous version: 9

· 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)
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organisation
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
 ADR: Accord relatif au transport international 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
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 3: Acute toxicity – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 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
 Resp. Sens. 1: Respiratory sensitisation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1A: Skin sensitisation – Category 1A
 Skin Sens. 1B: Skin sensitisation – Category 1B
 Repr. 2: Reproductive toxicity – Category 2
 Repr. 2: Reproductive toxicity – Category 2
 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Asp. Tox. 1: Aspiration 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