

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 8 (replaces version 7)

Revision: 25.01.2024

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

#### 1.1 Product identifier

- Trade name: **Colour Bond P+**
- Article number: 470xx, 4710x, 461xx, 46091
- UFI: G1P2-M06X-G00V-GRYH

#### 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

Reaction resin

#### 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.  |
| 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  
methacrylic acid

##### Hazard statements

- H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H361d Suspected of damaging the unborn child.  
H335 May cause respiratory irritation.  
H372 Causes damage to the hearing organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

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<ul style="list-style-type: none"> <li>· <u>Precautionary statements</u></li> <li>· <u>Additional information:</u></li> <li>· <b>2.3 Other hazards</b></li> <li>· <u>Results of PBT and vPvB assessment</u></li> <li>· <u>PBT:</u></li> <li>· <u>vPvB:</u></li> <li>· <u>Determination of endocrine-disrupting properties</u></li> </ul>	P101 P102 P103 P210  P260 P273 P280 P303+P361+P353 P305+P351+P338  P312 P403+P233 P405 P501  Contains methyl methacrylate, octabenzone. May produce an allergic reaction.  Not applicable. Not applicable.  For information on endocrine disrupting properties see section 11.	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read carefully and follow all instructions. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapours. Avoid release to the environment. Wear protective gloves / eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.
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**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: 79-41-4 EINECS: 201-204-4 Index number: 607-088-00-5 Reg.nr.: 01-2119463884-26-XXXX	methacrylic acid Acute Tox. 3, H311 Skin Corr. 1A, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %	1-5%
CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6 Reg.nr.: 01-2119452498-28	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	<1%
CAS: 38668-48-3 EINECS: 254-075-1 Reg.nr.: 01-2119980937-17	1,1'-(p-tolyimino)dipropan-2-ol Acute Tox. 2, H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	<1%
CAS: 1843-05-6 EINECS: 217-421-2 Reg.nr.: 01-2119557833-30-0000	octabenzone Skin Sens. 1B, H317	<1%

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· 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: Take affected persons out into the fresh air.  
Position and transport stably in side position.  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- 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: If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.

**· 4.2 Most important symptoms and effects, both acute and delayed**

Breathing difficulty  
Headache  
Dizziness  
Dizziness  
Coughing  
Nausea  
Danger of impaired breathing.

**· Hazards****· 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: CO<sub>2</sub>, 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)  
Nitrogen oxides (NO<sub>x</sub>)  
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.  
Mount respiratory protective device.

· 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.

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**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Ensure adequate ventilation
  - Keep away from ignition sources.
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Wear protective equipment. Keep unprotected persons away.
- **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:**
  - Dispose of the material collected according to regulations.
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to section 13.
  - Ensure adequate ventilation.
- **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.
  - Store in cool, dry place in tightly closed receptacles.
  - Keep away from heat and direct sunlight.
  - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
  - Use only in well ventilated areas.
  - Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
  - 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:**
  - Store receptacle in a well ventilated area.
  - Keep container tightly sealed.
- **Storage class:**
  - 3
- **7.3 Specific end use(s)**
  - No further relevant information available.

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

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

**80-62-6 methyl methacrylate**

IOELV	Short-term value: 100 ppm Long-term value: 50 ppm
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· 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 <sup>3</sup> Air (ARB)
		174.25-182.75 mg/m <sup>3</sup> Air (BEV)
		DNEL (Langzeit-wiederholt)
		85 mg/m <sup>3</sup> Air (ARB)
		10.2 mg/m <sup>3</sup> Air (BEV)

**79-41-4 methacrylic acid**

Dermal	DNEL (Langzeit-wiederholt)	4.25 mg/kg bw/day (ARB)
Inhalative	DNEL (Langzeit-wiederholt)	2.55 mg/kg bw/day (BEV)
		29.6-88 mg/m <sup>3</sup> Air (ARB)
		6.3-6.55 mg/m <sup>3</sup> Air (BEV)

**80-62-6 methyl methacrylate**

Oral	DNEL (Kurzzeit-akut)	0.25 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	1.5 mg/kg bw/day (ARB)
		1.5 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	1.5-13.67 mg/kg bw/day (ARB)
		1.5-8.2 mg/kg bw/day (BEV)
		DNEL (Kurzzeit-akut)
		29.6-416 mg/m <sup>3</sup> Air (ARB)
		6.3-104 mg/m <sup>3</sup> Air (BEV)
DNEL (Langzeit-wiederholt)	208 mg/m <sup>3</sup> Air (ARB)	
	74.3-104 mg/m <sup>3</sup> Air (BEV)	

**38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol**

Oral	DNEL (Langzeit-wiederholt)	0.25 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	0.7 mg/kg bw/day (ARB)
		0.3 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	2.47 mg/m <sup>3</sup> Air (ARB)
		0.4 mg/m <sup>3</sup> Air (BEV)

**1843-05-6 octabenzene**

Oral	DNEL (Langzeit-wiederholt)	0.9 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	1.87 mg/kg bw/day (ARB)
		0.9 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	6.6 mg/m <sup>3</sup> Air (ARB)
		1.6 mg/m <sup>3</sup> Air (BEV)

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## · 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)

**79-41-4 methacrylic acid**

PNEC (wässrig)	10 mg/l (KA)
	0.82 mg/l (MW)
	0.82 mg/l (SW)
PNEC (fest)	1.2 mg/kg Trockengew (BO)

**80-62-6 methyl methacrylate**

PNEC (wässrig)	10 mg/l (KA)
	0.094 mg/l (MW)
	0.94 mg/l (SW)
	0.15-0.94 mg/l (WAS)
PNEC (fest)	1.47 mg/kg Trockengew (BO)
	0.102 mg/kg Trockengew (MWS)
	10.2 mg/kg Trockengew (SWS)

**38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol**

PNEC (wässrig)	199.5 mg/l (KA)
	0.0017 mg/l (MW)
	0.017 mg/l (SW)
	0.17 mg/l (WAS)
PNEC (fest)	0.005 mg/kg Trockengew (BO)
	0.00782 mg/kg Trockengew (MWS)
	0.0782 mg/kg Trockengew (SWS)

**1843-05-6 octabenzone**

PNEC (wässrig)	1 mg/l (KA)
	0.0052 mg/l (MW)
	0.052 mg/l (SW)
	0.52 mg/l (WAS)
PNEC (fest)	66.8 mg/kg Trockengew (BO)
	10 mg/kg Trockengew (MWS)
	100 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:

Do not eat, drink, smoke or sniff while working.  
Use skin protection cream for skin protection.  
Clean skin thoroughly immediately after handling the product.

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- Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.
- Respiratory protection:  
Short term filter device:  
Filter A/P2  
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.
- Hand protection  
After use of gloves apply skin-cleaning agents and skin cosmetics.  
Preventive skin protection by use of skin-protecting agents is recommended.  
Skin protection agent recommendation for preventive skin shelter without use of protective gloves:  
STOKODERM (<http://www.stoko.com>)  
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:  
FRAPANTOL (<http://www.stoko.com>)  
Kresto Classic (<http://debstoko.com>)  
Skin protection agent recommendation for skin aftercare:  
STOKO VITAN (<http://www.stoko.com>)  
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, internet: <http://www.kcl.de>).
-  Protective gloves
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- 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. 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  $\leq 6$ , 480 min  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact gloves made of the following materials are suitable:  
Fluorocarbon rubber (Viton)

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· As protection from splashes gloves made of the following materials are suitable:

Vitoject (KCL, Art\_No. 890)

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

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:

Characteristic

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

145.2 °C

· Lower and upper explosion limit

· Lower:

1.2 Vol %

· Upper:

8.9 Vol %

· Flash point:

31 °C

· Auto-ignition temperature:

480 °C

· pH

Not determined.

· Viscosity:

· Kinematic viscosity

Not determined.

· Dynamic:

Not determined.

· Solubility

· water:

Not miscible or difficult to mix.

· Vapour pressure at 20 °C:

6 hPa

· Vapour pressure at 50 °C:

35 hPa

· Density and/or relative density

· Density at 20 °C:

1.1 g/cm<sup>3</sup>

#### 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:

31.3 %

· Information with regard to physical hazard classes

· Explosives

Void

· Flammable gases

Void

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

**SECTION 10: Stability and reactivity**

· <b>10.1 Reactivity</b>	No further relevant information available.
· <b>10.2 Chemical stability</b>	
· <u>Thermal decomposition / conditions to be avoided:</u>	No decomposition if used and stored according to specifications.
· <b>10.3 Possibility of hazardous reactions</b>	Exothermic polymerisation. Reacts with strong oxidising agents. Reacts with strong alkali. Reacts with strong acids. Reacts with peroxides and other radical forming substances.
· <b>10.4 Conditions to avoid</b>	No further relevant information available.
· <b>10.5 Incompatible materials:</b>	No further relevant information available.
· <b>10.6 Hazardous decomposition products:</b>	Hydrogen chloride (HCl) Nitrogen oxides (NO <sub>x</sub> ) Carbon monoxide and carbon dioxide Possible in traces.

**SECTION 11: Toxicological information**

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

· LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

Oral	LD50	>3,066-<18,920 mg/kg (rat)
Dermal	LD50	27,438-54,876 mg/kg
Inhalative	LC50/4 h	35.3 mg/l

**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/m <sup>3</sup> (mouse) 11,800 mg/m <sup>3</sup> (rat)

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	LC50/4 h	11.8 mg/l (rat)
	NOAEC	4.34 mg/l (rat)

**79-41-4 methacrylic acid**

Oral	LD50	1,320 mg/kg (rat)
Dermal	LD50	500-1,000 mg/kg (rabbit)
Inhalative	LC50/4 h	7.1 mg/l (rat)

**80-62-6 methyl methacrylate**

Oral	LD50	7,872 mg/kg (rat) (OECD 401)
	NOAEL	2,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	4,632 mg/m <sup>3</sup> (rat)
	LC50/4 h	29.8 mg/l (rat)
	NOAEL	25 mg/m <sup>3</sup> (rat)

**38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol**

Oral	LD50	>25-<200 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)

**1843-05-6 octabenzone**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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.

**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 (algae)
	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 (algae)

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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 (algae)
	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 (algae)

**79-41-4 methacrylic acid**

IC50/72h	0.59 mg/l (Selenastrum capricornutum)
EC10/16h	100 mg/l (microorganisms)
NOELR/72h	8.2 mg/l (Pseudokirchneriella subcapitata)
NOELR/21d	53 mg/l (daphnia magna)
EC50/48h	>130 mg/l (daphnia magna)
EC50/72h	45 mg/l (algae)
	20 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	85 mg/l (Oncorhynchus mykiss)

**80-62-6 methyl methacrylate**

EC50/96h	170 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	69 mg/l (daphnia magna) (OECD 202)
EC0	100 mg/l (pseudomonas putida)
NOEC	9.4 mg/kg (Danio rerio.) (OECD 210)
NOEC	>100 mg/l (Selenastrum capricornutum)
NOEC/21d	37 mg/l (daphnia magna) (OECD 202)
EC50/72h	>110 mg/l (Selenastrum capricornutum)
LC50/96h	153.9-341.8 mg/l (lem)
	>79 mg/l (Oncorhynchus mykiss) (OECD 203)
	125-275 mg/l (pimephales promelas)
	326.4-426.9 mg/l (poecilia reticulata)

**38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol**

EC50/48h	28.8 mg/l (daphnia magna) (OECD 202)
EC20/0.5h	>1,995 mg/l (BES) (OECD 209)
EC50/72h	245 mg/l (Desmodesmus subspicatus) (OECD 201)
LC50/96h	17 mg/l (Brachydanio rerio)

**1843-05-6 octabenzone**

EC50/24h	52 mg/l (daphnia magna)
IC50	>100 mg/l (BES)
	52 mg/l (daphnia magna)
LC50	>100 mg/l (Brachydanio rerio)
EC50/48h	>0.0038 mg/l (daphnia magna)
EC20/3h	>100 mg/l (BES)

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EC50/72h	>100 mg/l (Scenedesmus subspicatus)
LC50/96h	>100 mg/l (Brachydanio rerio) (OECD 203)

· **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:**

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.

· **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
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances

· **Uncleaned packaging:**

· **Recommendation:**

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.

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· <u>Label</u>	3
· <u>IMDG, IATA</u>	
	
· <u>Class</u>	3 Flammable liquids.
· <u>Label</u>	3
· <b>14.4 Packing group</b>	
· <u>ADR, IMDG, IATA</u>	III
· <b>14.5 Environmental hazards:</b>	
· <u>Marine pollutant:</u>	No
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <u>Hazard identification number (Kemler code):</u>	30
· <u>EMS Number:</u>	F-E, S-E
· <u>Stowage Category</u>	A
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <u>Transport/Additional information:</u>	
· <u>ADR</u>	
· <u>Limited quantities (LQ)</u>	5L
· <u>Excepted quantities (EQ)</u>	Code: E1 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>IMDG</u>	
· <u>Limited quantities (LQ)</u>	5L
· <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <u>UN "Model Regulation":</u>	UN 1866 RESIN SOLUTION, 3, III

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

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EU

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

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

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

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.  
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 344.7 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: 26.07.2022

· Version number of previous version:

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· 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 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

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2

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

EU