Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 29.05.2024 Version number 3 (replaces version 2) Revision: 29.05.2024

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

· **1.1 Product identifier**

· Trade name: **Match Bond**

· Article number: 471xx, 474xx, 4614x

· UFI: WK80-S0SR-X00T-YSRK

· **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 Adhesives

· **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. 2 H225 Highly flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

· **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:
methyl methacrylate
2,2'-ethylenedioxydiethyldimethacrylate
ethylene mercaptoacetate
octabenzone
n-butyl acrylate
tris(nonylphenyl) phosphite

· Hazard statements
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

· Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P280	Wear protective gloves / eye protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/ regional/national/international regulations.

· **2.3 Other hazards**

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Determination of endocrine-disrupting properties		
26523-78-4	tris(nonylphenyl) phosphite	List I

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· Description: Mixture: consisting of the following components.

· Dangerous components:

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	50-100%
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21	2,2'-ethylenedioxydiethyldimethacrylate Skin Sens. 1, H317	<10%
CAS: 38668-48-3 EINECS: 254-075-1 Reg.nr.: 01-2119980937-17	1,1'-(p-tolylimino)dipropan-2-ol Acute Tox. 2, H300 Eye Irrit. 2, H319	1-5%
CAS: 1843-05-6 EINECS: 217-421-2 Reg.nr.: 01-2119557833-30-0000	octabenzone Skin Sens. 1B, H317	<1%
CAS: 123-81-9 EINECS: 204-653-4	ethylene mercaptoacetate Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319; Skin Sens. 1A, H317; STOT SE 3, H335	<1%
CAS: 141-32-2 EINECS: 205-480-7 Index number: 607-062-00-3 Reg.nr.: 01-2119453155-43	n-butyl acrylate Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Chronic 3, H412	<1%
CAS: 26523-78-4 EINECS: 247-759-6 Index number: 015-202-00-4 Reg.nr.: 01-2119520601-54-xxxx	tris(nonylphenyl) phosphite Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	<1%

· SVHC

26523-78-4	tris(nonylphenyl) phosphite

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

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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

· **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**

During heating or in case of fire poisonous gases are produced.
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx)
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
141-32-2 n-butyl acrylate	
IOELV	Short-term value: 53 mg/m³, 10 ppm Long-term value: 11 mg/m³, 2 ppm

· DNELs

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)
	DNEL (Langzeit-wiederholt)	1.5-13.67 mg/kg bw/day (ARB)
		1.5-8.2 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	29.6-416 mg/m³ Air (ARB)
		6.3-104 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	208 mg/m³ Air (ARB)
		74.3-104 mg/m³ Air (BEV)
109-16-0 2,2'-ethylenedioxydiethyldimethacrylate		
Oral	DNEL (Langzeit-wiederholt)	8.33 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	13.9 mg/kg bw/day (ARB)
		8.33 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	48.5 mg/m³ Air (ARB)
		14.5 mg/m³ 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/m³ Air (ARB)
		0.4 mg/m³ Air (BEV)
1843-05-6 octabenzone		
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/m³ Air (ARB)
		1.6 mg/m³ Air (BEV)
123-81-9 ethylene mercaptoacetate		
Oral	DNEL (Langzeit-wiederholt)	0.05 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	0.14 mg/kg bw/day (ARB)
		0.05 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	0.49 mg/m³ Air (ARB)
		0.074 mg/m³ Air (BEV)

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141-32-2 n-butyl acrylate		
Inhalative	DNEL (Langzeit-wiederholt)	11 mg/m³ Air (ARB)
26523-78-4 tris(nonylphenyl) phosphite		
Oral	DNEL (Langzeit-wiederholt)	1.67 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	17.7 mg/kg bw/day (ARB)
		8.35 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	23.6 mg/m³ Air (ARB)
		11.8 mg/m³ Air (BEV)

· PNECs

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)
109-16-0 2,2'-ethylenedioxydiethyldimethacrylate	
PNEC (wässrig)	1.7 mg/l (KA)
	0.002 mg/l (MW)
	0.016 mg/l (SW)
PNEC (fest)	0.027 mg/kg Trockengew (BO)
	0.018 mg/kg Trockengew (MWS)
	0.185 mg/kg Trockengew (SWS)
38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol	
PNEC (wässrig)	3 mg/l (KA)
	0.013 mg/l (MW)
	0.13 mg/l (SW)
	0.17 mg/l (WAS)
PNEC (fest)	0.798 mg/kg Trockengew (BO)
	0.438 mg/kg Trockengew (MWS)
	4.38 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)
123-81-9 ethylene mercaptoacetate	
PNEC (wässrig)	mg/l (KA)
	mg/l (MW)
	0.0048 mg/l (SW)
PNEC (fest)	mg/kg Trockengew (MWS)

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	mg/kg Trockengew (SWS)
141-32-2 n-butyl acrylate	
PNEC (wässrig)	3.5 mg/l (KA)
	0 mg/l (MW)
	0.003 mg/l (SW)
PNEC (fest)	1 mg/kg Trockengew (BO)
	0.003 mg/kg Trockengew (MWS)
	0.034 mg/kg Trockengew (SWS)
26523-78-4 tris(nonylphenyl) phosphite	
PNEC (wässrig)	1.8 mg/l (KA)
	0.05 mg/l (MW)
	0.05 mg/l (SW)
PNEC (fest)	0.15 mg/kg Trockengew (MWS)
	0.15 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.
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 anylyses 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

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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: 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)
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
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:	Various colours
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	101 °C
· Lower and upper explosion limit	
· Lower:	2.1 Vol %
· Upper:	12.5 Vol %

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· Flash point:	10 °C
· Auto-ignition temperature:	430 °C
· pH	Not applicable. Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	20,000 mPas
· Solubility	
· water:	Not miscible or difficult to mix.
· Vapour pressure at 20 °C:	47 hPa
· Density and/or relative density	
· Density at 20 °C:	1.05 g/cm³

· **9.2 Other information**

· Appearance:	
· Form:	Pasty
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	79.1 %
· Solids content:	9.3 %

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly 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.
· **10.3 Possibility of hazardous reactions**	Exothermic polymerisation. Reacts with strong oxidising agents. Reacts with strong alkali. Reacts with strong acids. Reacts with peroxides and other radical forming substances.
· **10.4 Conditions to avoid**	No further relevant information available.

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· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** Nitrogen oxides (NOx)
Carbon monoxide and carbon dioxide
Possible in traces.

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.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)		
Oral	LD50	>2,314-<18,512 mg/kg (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/m3 (rat)
	LC50/4 h	29.8 mg/l (rat)
	NOAEL	25 mg/m³ (rat)
109-16-0 2,2'-ethylenedioxydiethyldimethacrylate		
Oral	LD50	>2,000 mg/kg (rat) (Lit.)
Dermal	LD50	>2,000 mg/kg (mouse)
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)
123-81-9 ethylene mercaptoacetate		
Oral	LD50	303 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	1.5 mg/l (rat)
	LC50/48h	4.85 mg/l (Leuciscus idus)
141-32-2 n-butyl acrylate		
Oral	LD50	3,150 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	10.3 mg/l (rat)
26523-78-4 tris(nonylphenyl) phosphite		
Oral	LD50	>16,200 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

· Skin corrosion/irritation Causes skin irritation.
· Serious eye damage/irritation Based on available data, the classification criteria are not met.
· 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 Based on available data, the classification criteria are not met.
· STOT-single exposure Based on available data, the classification criteria are not met.
· STOT-repeated exposure Based on available data, the classification criteria are not met.

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· Aspiration hazard Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· Endocrine disrupting properties		
26523-78-4	tris(nonylphenyl) phosphite	List I

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SECTION 12: Ecological information

· **12.1 Toxicity**

· Aquatic toxicity:	
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)
109-16-0 2,2'-ethylenedioxydiethyldimethacrylate	
EC50	51.9 mg/l (daphnia magna)
NOEC	18.6 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	32 mg/l (daphnia magna)
EC50/72h	>100 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	16.4 mg/l (Brachydanio rerio)
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)
NOEC/21d	1.3 mg/l (piscis)
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)
EC50/72h	>100 mg/l (Scenedesmus subspicatus)
LC50/96h	>100 mg/l (Brachydanio rerio) (OECD 203)
123-81-9 ethylene mercaptoacetate	
NOELR/72h	≥100 mg/l (Desmodesmus subspicatus)
EC50/48h	11 mg/l (daphnia magna)
EC50/72h	>100 mg/l (Desmodesmus subspicatus)

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141-32-2 n-butyl acrylate	
EC50/96h	2.65 mg/l (selenastrum capricornutum)
EC50	>1,000 mg/l (BES)
NOEC	2.4 mg/l (daphnia magna)
	3.8 mg/l (Oncorhynchus mykiss)
	<1.8 mg/l (selenastrum capricornutum)
NOELR/21d	0.136 mg/l (daphnia magna)
EC50/48h	8.2 mg/l (daphnia magna)
LC50/96h	>5.2 mg/l (Oncorhynchus mykiss)
26523-78-4 tris(nonylphenyl) phosphite	
NOEC	100 mg/l (algae)
NOELR/21d	>0.1 mg/l (daphnia magna)
EC50/48h	0.3 mg/l (daphnia magna)
LC50/96h	>100 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** For information on endocrine disrupting properties see section 11.
· **12.7 Other adverse effects**
· Additional ecological information:
· General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly 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	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

· Uncleaned packaging:
· Recommendation: Disposal must be made according to official regulations.
· 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

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· 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:**	Not applicable.
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	-
· EMS Number:	F-E,S-E
· Stowage Category	A
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
· Remarks:	Without hardener component: no dangerous goods < 450 l
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	Without hardener component: no dangerous goods < 30 l Packing group III, if content of packaging < 30 l, according 2.3.2.3 IMDG
· IATA	
· Remarks:	Without hardener component: 3/III UN 1866 Resin Solution Packing group III, if content of packaging < 30l, according 3.3.3.1.1 IATA
· UN "Model Regulation":	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** 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EWG (2008/47/EG); 453/2010/EG

· 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

· 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 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

26523-78-4	tris(nonylphenyl) phosphite

· VOC EU 830.5 g/l

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

· Department issuing SDS: Laboratory

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· Date of previous version: 08.12.2022
· Version number of previous version: 2
· Abbreviations and acronyms:
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
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3