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# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

# **1.1 Product identifier**

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# Liquimate 2K Power Kleber (A) Liquimate 2-Component Power Adhesive (A)

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

#### Adhesive Uses advised against:

No information available at present.

# 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

# **SECTION 2: Hazards identification**

	of the substance or mix ording to Regulation (E	
Hazard class	Hazard category	Hazard statement
Flam. Liq.	2	H225-Highly flammable liquid and vapour.
Skin Corr.	1A	H314-Causes severe skin burns and eye damage.
STOT SE	3	H335-May cause respiratory irritation.
Eye Dam.	1	H318-Causes serious eye damage.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



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Danger

H225-Highly flammable liquid and vapour. H314-Causes severe skin burns and eye damage. H335-May cause respiratory irritation. H317-May cause an allergic skin reaction. H412-Harmful to aquatic life with long lasting effects.

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

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260-Do not breathe vapours or spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves / protective clothing / eye protection / face protection. P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor. P405-Store locked up.

P501-Dispose of contents / container to an approved waste disposal facility.

Methyl methacrylate Methacrylic acid Ethoxylated trimethylolpropane triacrylate .alpha.,.alpha.-dimethylbenzyl hydroperoxide

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

#### n.a. **3.2 Mixtures**

Methyl methacrylate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	607-035-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	201-297-1
CAS	80-62-6
content %	50-<75
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225
	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	STOT SE 3, H335
Methacrylic acid	
Registration number (REACH)	

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Registration number (REACH)	
Index	607-088-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	201-204-4
CAS	79-41-4



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content %	1-10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 3, H311
	Acute Tox. 4, H302
	Acute Tox. 4, H332
	Skin Corr. 1A, H314
	Eye Dam. 1, H318
Specific Concentration Limits and ATE	STOT SE 3, H335: >=1 %
Ethoxylated trimethylolpropane triacrylate	
Registration number (REACH)	

Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	500-066-5
CAS	28961-43-5
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Irrit. 2, H319
	Skin Sens. 1B, H317

2,6-di-tert-butyl-p-cresol	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	204-881-4
CAS	128-37-0
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

.alphaalphadimethylbenzyl hydroperoxide	
Registration number (REACH)	
Index	617-002-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	201-254-7
CAS	80-15-9
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226
	Org. Perox. Type E, H242
	Acute Tox. 3, H331
	Acute Tox. 4, H302
	Acute Tox. 4, H312
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	STOT RE 2, H373
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411
Specific Concentration Limits and ATE	Skin Corr. 1B, H314: >=10 %
	Skin Irrit. 2, H315: >=3 %
	Eye Dam. 1, H318: >=3 %
	Eye Irrit. 2, H319: >=1 %
	STOT SE 3, H335: >=1 %

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms.



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#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Cauterizations not treated lead to wounds difficult to heal.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Protect uninjured eye. Follow-up examination by an ophthalmologist.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. Corrosive burns on skin as well as mucous membrane possible. Risk of serious damage to eyes. Corneal damage.

Danger of blindness. Ingestion: pain in the mouth and throat stomach pain Oesophageal perforation Gastric perforation

#### 4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

#### SECTION 5: Firefighting measures

# 5.1 Extinguishing media

#### Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

# Unsuitable extinguishing media

High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Toxic gases Explosive vapour/air or gas/air mixtures.

#### 5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.



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Remove possible causes of ignition - do not smoke. Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

#### **6.2 Environmental precautions**

If leakage occurs, dam up.

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Resolve leaks if this possible without risk.

Prevent from entering drainage system. Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system accurs, inform responsible authoritie

If accidental entry into drainage system occurs, inform responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

#### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation. Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

 $\label{eq:keep} \mbox{Keep away from food, drink and animal feeding stuffs.}$ 

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells. Do not store with flammable or self-igniting materials.

Observe special storage conditions.

Observe special storage conditions.

Store in a well ventilated place.

Protect from direct sunlight and warming.

#### Store cool. 7.3 Specific end use(s)

No information available at present.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Image: Chemical Name         Methyl methacrylate	Content %:50- <75
WEL-TWA: 50 ppm (208 mg/m3) (WEL), 50 ppm (EU) WEL-STEL: 100 ppm (416 mg/m3) (WEL), 100 ppm	
(EU)	
Monitoring procedures: - Compur - KITA-184 S (548 618)	



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	- BC/CEN/ENTR/	ethyl and ethyl metacrylate) - 2003 - EU pr 000/2002-16 card 109-2 (2004) yl Methacrylate) - 1992	oject	
BMGV:		Other information:		
Chemical Name	Methacrylic acid			Content %:1-10
WEL-TWA: 20 ppm (72 mg/m3)	WEL-STEL:	40 ppm (143 mg/m3)		
Monitoring procedures:				
BMGV:		Other information:	-	
Chemical Name	2,6-di-tert-butyl-p-cresol			Content %:1-2,5
WEL-TWA: 10 mg/m3	WEL-STEL:			
Monitoring procedures:				
BMGV:		Other information:	-	

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment		DUEO	0.01		
	Environment - freshwater		PNEC	0,94	mg/l	
	Environment - soil		PNEC	1,47	mg/kg	
	Environment - sewage		PNEC	10	mg/l	
	treatment plant		DUEO			
	Environment - marine		PNEC	0,094	mg/l	
	Environment - sediment		PNEC	5,74	mg/kg	
	Environment - sediment,		PNEC	10,2	mg/kg	
	freshwater					
	Environment - sediment,		PNEC	0,102	mg/kg	
	marine					
Consumer	Human - inhalation	Short term, local effects	DNEL	208	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	8,2	mg/kg	
Consumer	Human - dermal	Short term, local effects	DNEL	1,5	mg/cm2	
Consumer	Human - inhalation	Long term, local effects	DNEL	104	mg/m3	
Consumer	Human - dermal	Long term, local effects	DNEL	1,5	mg/cm2	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	74,3	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	8,2	mg/kg bw/day	
Consumer	Human - oral	Long term, local effects	DNEL	1,5	mg/cm2	
Industrial / commercial	Human - dermal	Long term, local effects	DNEL	1,5	mg/cm2	
Industrial / commercial	Human - inhalation	Long term, local effects	DNEL	208	mg/m3	
Industrial / commercial	Human - inhalation	Long term, systemic effects	DNEL	208	mg/m3	
Industrial / commercial	Human - dermal	Long term, systemic effects	DNEL	13,67	mg/kg	
Industrial / commercial	Human - dermal	Short term, local effects	DNEL	1,5	mg/cm2	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	208	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	1,5	mg/cm2	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	416	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	13,67	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	348,4	mg/m3	
Workers / employees	Human - dermal	Short term, local effects	DNEL	1,5	mg/cm2	



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Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,82	mg/l	
	Environment - marine		PNEC	0,82	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,82	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - soil		PNEC	1,2	mg/kg dry weight	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	6,3	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	6,55	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	2,55	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	88	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	29,6	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	4,25	mg/kg bw/d	

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	Environment - soil		PNEC	1,04	mg/kg wwt	
	Environment - sewage		PNEC	0,17	mg/l	
	treatment plant					
	Environment - sediment		PNEC	1,29	mg/kg wwt	
	Environment - marine		PNEC	0,02	µg/l	
	Environment - water,		PNEC	1,99	µg/l	
	sporadic (intermittent)					
	release					
	Environment - freshwater		PNEC	0,199	µg/l	
	Environment - oral (animal		PNEC	8,33	mg/kg feed	
	feed)					
	Environment - soil		PNEC	0,04769	mg/kg dw	
	Environment - sediment,		PNEC	0,0996	mg/kg dw	
	freshwater					
	Environment - sediment,		PNEC	0,00996	mg/kg dw	
	marine					
Consumer	Human - inhalation	Long term, systemic	DNEL	0,86	mg/m3	
		effects				
Consumer	Human - dermal	Long term, systemic	DNEL	0,25	mg/kg bw/d	
		effects			0.0	
Consumer	Human - oral	Long term, systemic	DNEL	0,25	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	3,5	mg/m3	
		effects				
Workers / employees	Human - dermal	Long term, systemic	DNEL	0,5	mg/kg	
1 - 5		effects			bw/day	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE).
(11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit respective respective for the period.

value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer



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Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

# 8.2 Exposure controls8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

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Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective gloves in butyl rubber (EN ISO 374). Minimum layer thickness in mm: 0,7

Permeation time (penetration time) in minutes: > 60

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: If OES or MEL is exceeded. Gas mask filter A (EN 14387), code colour brown Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

**SECTION 9: Physical and chemical properties** 



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#### 9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

# **9.2 Other information** Explosives:

Oxidising liquids:

#### **10.1 Reactivity**

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** Heating, open flame, ignition sources **10.5 Incompatible materials** Avoid contact with strong alkalis. Avoid contact with strong acids. Avoid contact with strong oxidizing agents. **10.6 Hazardous decomposition products** No decomposition when used as directed.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value. Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated value Aerosol
Skin corrosion/irritation:						n.d.a.

Paste, liquid. White Slightly, Penetrating There is no information available on this parameter. 101 °C Flammable 2,1 Vol-% 12.5 Vol-% 11 °C (closed cup) 430 °C There is no information available on this parameter. 3-4 40000-80000 cP (25°C, Viscous, Dynamic viscosity ) Not miscible Does not apply to mixtures. 47 hPa (20°C) 0,95-1,05 (25°C, relative density) There is no information available on this parameter. Does not apply to liquids.

Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.

#### **SECTION 10: Stability and reactivity**



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Liquimate 2-Component Power A	unesive (A)					
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
						n.u.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:		-				n.d.a.
Symptoms:		-				n.d.a.
Symptoms.						n.u.a.
Mothyl motheonylate						
Methyl methacrylate Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
						NULES
Acute toxicity, by oral route:	LD50	>6000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	29,8	mg/l/4h	Rat		Vapours
Skin corrosion/irritation:				Rabbit		Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Mild irritant
gg					Irritation/Corrosion)	
Respiratory or skin				Human being		Skin Sens, 1
sensitisation:				i iunan being		OKIT OCTIS. T
Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
				wouse		
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Specific target organ toxicity -	NOAEL	2000	ppm	Rat		
repeated exposure (STOT-RE):	-					
Aspiration hazard:						No indications o
Aspiration nazara.						such an effect.
Specific target organ toxicity -	NOAEL	25	nnm	Rat	OECD 453 (Combined	Such all Ellect.
	NUAEL	20	ppm	Γαι		
repeated exposure (STOT-RE),					Chronic	
inhalat.:					Toxicity/Carcinogenicity	
					Studies)	
Symptoms:						breathing
						difficulties,
						respiratory
						distress,
						drowsiness, dro
						in blood
						pressure,
						coughing,
						headaches,
						fatigue, mucous
						membrane
						irritation,
	1					watering eyes,
						watering eyes.

Methacrylic acid									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	1320	mg/kg	Rat	OECD 401 (Acute Oral				
					Toxicity)				
Acute toxicity, by dermal route:	LD50	500-1000	mg/kg	Rabbit					
Acute toxicity, by inhalation:	LC50	7,1	mg/l/4h	Rat	OECD 403 (Acute	Does not			
					Inhalation Toxicity)	conform with EU			
						classification.			



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Skin corrosion/irritation:	Rabbit	OECD 404 (Acute	Corrosive
		Dermal	
		Irritation/Corrosion)	
Serious eye damage/irritation:	Rabbit	(Draize-Test)	Risk of serious
			damage to eyes.
Respiratory or skin	Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:		Sensitisation)	

2,6-di-tert-butyl-p-cresol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2930	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit	(Draize-Test)	Not irritant
Respiratory or skin				Human being		No (skin contact)
sensitisation:						
Germ cell mutagenicity:					(Ames-Test)	Negative
Germ cell mutagenicity:				Mouse	in vivo	Negative
Carcinogenicity:	NOAEL	247	mg/kg	Rat		Negative
			bw/d			
Reproductive toxicity	NOAEL	100	mg/kg	Rat		
(Developmental toxicity):						
Reproductive toxicity (Effects	NOAEL	500	mg/kg	Rat		
on fertility):						
Specific target organ toxicity -	NOEL	25	mg/kg	Rat		(28 d)
repeated exposure (STOT-RE):						
Aspiration hazard:						No
Symptoms:						mucous
						membrane
						irritation

### 11.2. Information on other hazards

Liquimate 2K Power Kleber (A) Liquimate 2-Component Power Adhesive (A)									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Endocrine disrupting properties:						Does not apply			
						to mixtures.			
Other information:						No other			
						relevant			
						information			
						available on			
						adverse effects			
						on health.			

#### **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification). Liquimate 2K Power Kleber (A) Liquimate 2-Component Power Adhesive (A) Toxicity / effect Endpoint Time Value Unit Organism Test method Notes 12.1. Toxicity to fish: 12.1. Toxicity to daphnia: n.d.a. n.d.a. 12.1. Toxicity to algae: 12.2. Persistence and n.d.a. n.d.a. degradability: 12.3. Bioaccumulative n.d.a. potential: 12.4. Mobility in soil: n.d.a.



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12.5. Results of PBT			n.d.a.
and vPvB assessment			
12.6. Endocrine			Does not apply
disrupting properties:			to mixtures.
12.7. Other adverse			No information
effects:			available on
			other adverse
			effects on the
			environment.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to algae:	NOEC/NOEL	72h	49	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	37	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to fish:	LC50	96h	130	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	69	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	96h	37	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	>95	%		OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		1,32- 1,38			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment						, ,	No PBT substance, No vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	35d	10	mg/l	Brachydanio rerio		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	53	mg/l	Daphnia magna		
12.1. Toxicity to algae:	LOEC/LOEL	72h	45	mg/l	Selenastrum		
				_	capricornutum		
Toxicity to bacteria:	EC20	17h	270	mg/l	Pseudomonas		
-				_	putida		
12.1. Toxicity to fish:	LC50	96h	85	mg/l	Oncorhynchus		
-				_	mykiss		
12.1. Toxicity to daphnia:	EC50	48h	>130	mg/l	Daphnia magna		
12.1. Toxicity to algae:	ErC50	72h	45	mg/l	Pseudokirchneriell		
				-	a subcapitata		

2,6-al-tert-butyl-p-cresol										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.4. Mobility in soil:	Log Koc		3,9-4,2							
Other information:	Koc		14750							
			•		•					



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Other information:	Log Koc		3,9-4,2				
12.1. Toxicity to fish:	LC50	96h	>0,57	mg/l	Brachydanio rerio	84/449/EEC C.1	
12.1. Toxicity to fish:	NOEC/NOEL	42d	0,053	mg/l	Oryzias latipes	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.3. Bioaccumulative potential:			230- 2500		Cyprinus carpio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	56d
12.1. Toxicity to daphnia:	EC50	48h	0,45	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,023	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	
12.1. Toxicity to algae:	EC50	72h	>0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	
12.2. Persistence and degradability:		28d	4,5	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		5,1				High
12.3. Bioaccumulative potential:	BCF		>2000		Cyprinus caprio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	
12.4. Mobility in soil:	Koc		14750			,	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	AOX						Does not contai any organically bound halogens which can contribute to the AOX value in

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be



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Liquimate 2K Power Kleber (A)	
Liquimate 2-Component Power Adhesive (A)	
allocated under certain circumstances. (2014/955/EU) 08 04 09 waste adhesives and sealants containing organic solvents or Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. Hardened product: E.g. dispose at suitable refuse site. <b>For contaminated packing material</b> Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as t Do not perforate, cut up or weld uncleaned container. Residues may present a risk of explosion.	
SECTION 14: Tra	insport information
General statements	2024
14.1. UN number or ID number:	2924
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name: UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYLME)	
14.3. Transport hazard class(es):	
14.4. Packing group: Classification code:	
LQ:	FC 1 L
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	D/E
Transport by sea (IMDG-code)	0/E
14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYLMETHACRYLA 14.3. Transport hazard class(es):	TE,METHACRYLIC ACID, INHIBITED) 3(8)
14.4. Packing group:	
EmS:	F-E, S-C
Marine Pollutant:	n.a
14.5. Environmental hazards:	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	
Flammable liquid, corrosive, n.o.s. (METHYLMETHACRYLATE, METH	ACRYLIC ACID, INHIBITED)
14.3. Transport hazard class(es):	3(8)
14.4. Packing group:	
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations. Precautions must be taken to prevent damage.	
14.7. Maritime transport in bulk according to IMC	D instruments
Freighted as packaged goods rather than in bulk, therefore not applica	
Minimum amount regulations have not been taken into account.	
Danger code and packing code on request.	
Comply with special provisions.	
SECTION 15: Reg	julatory information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe restrictions: Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!



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Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
P5c		5000	50000

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

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Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

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Revised sections: Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Flam. Liq. 2, H225	Classification based on test data.
Skin Corr. 1A, H314	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H314 Causes severe skin burns and eye damage.

H225 Highly flammable liquid and vapour.

H242 Heating may cause a fire.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.



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H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid Skin Corr. — Skin corrosion STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Eye Dam. — Serious eye damage Skin Sens. — Skin sensitization Aquatic Chronic — Hazardous to the aquatic environment - chronic Skin Irrit. — Skin irritation Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - oral Acute Tox. — Acute toxicity - oral Acute Tox. — Acute toxicity - inhalation Eye Irrit. — Eye irritation Aquatic Acute — Hazardous to the aquatic environment - acute Org. Perox. — Organic peroxide STOT RE — Specific target organ toxicity - repeated exposure

Asp. Tox. — Aspiration hazard

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#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

#### Any abbreviations and acronyms used in this document:

according, according to acc., acc. to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) Acute Toxicity Estimate ATE Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** The International Bromine Council BSEF body weight bw CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw dry weight e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EC European Community ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community



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EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)
etc. et cetera
EU European Union
EVAL Ethylene-vinyl alcohol copolymer
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
Koc Adsorption coefficient of organic carbon in the soil
Kow octanol-water partition coefficient
0 5
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
IUPAC International Union for Pure Applied Chemistry
LC50 Lethal Concentration to 50 % of a test population
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil
Log Kow, Log Pow Logarithm of octanol-water partition coefficient
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
NIOSH National Institute for Occupational Safety and Health (USA)
NLP No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development
org. organic
OSHA Occupational Safety and Health Administration (USA)
PBT persistent, bioaccumulative and toxic
PE Polyethylene
PNEC Predicted No Effect Concentration
PVC Polyvinylchloride REACH Projection Evolution Authorization and Prostriction of Chamicals (RECULATION (EC) No 1007/2006 concerning the Projection
REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,
Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List
Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International
Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
TOC Total organic carbon
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
wwt weight
The statements made here should describe the product with regard to the necessary safety precautions - they are
not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.
These statements were made by:
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# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

# **1.1 Product identifier**

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# Liquimate 2K Power Kleber (B) Liquimate 2-Component Power Adhesive (B)

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

#### Adhesive Uses advised against:

No information available at present.

### 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

# **SECTION 2: Hazards identification**

	of the substance or mix ording to Regulation (E0	
Hazard class	Hazard category	Hazard statement
Flam. Liq.	2	H225-Highly flammable liquid and vapour.
STOT SE	3	H335-May cause respiratory irritation.
Skin Irrit.	2	H315-Causes skin irritation.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



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#### Danger

H225-Highly flammable liquid and vapour. H335-May cause respiratory irritation. H315-Causes skin irritation. H317-May cause an allergic skin reaction. H412-Harmful to aquatic life with long lasting effects.

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

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261-Avoid breathing vapours or spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up.

P501-Dispose of contents / container to an approved waste disposal facility.

Methyl methacrylate

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

#### n.a. 3.2 Mixtures

CAS

content %

Methyl methacrylate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	607-035-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	201-297-1
CAS	80-62-6
content %	60-<75
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225
	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	STOT SE 3, H335
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	252-091-3

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Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H312 Acute Tox. 4, H302 Skin Irrit. 2, H315
2.6-di-tert-butyl-p-cresol	Eye Irrit. 2, H319
Registration number (REACH)	

Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	204-881-4
CAS	128-37-0
content %	0,1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

#### SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

#### High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Toxic gases Explosive vapour/air or gas/air mixtures.

#### **5.3 Advice for firefighters**

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes.



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Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.

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Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

#### If accidental entry into drainage system occurs, inform responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke. Take measures against electrostatic charging, if appropriate.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Do not store with flammable or self-igniting materials. Protect from direct sunlight and warming.

Observe special storage conditions.

Observe special storage conditions.



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Store in a well ventilated place. Protect from direct sunlight and warming. Store cool.

# 7.3 Specific end use(s)

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No information available at present.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Chemical Name     Methyl methacrylate						Content %:6 <75
WEL-TWA: 50 ppm (208 m	g/m3) (WEL), 50 ppm (EU)   W (E	EL-STEL: 100 ppm (416 m U)	ng/m3) (WEL),	100 ppm		
Monitoring procedures:		our - KITA-184 S (548 618)				
		H 2537 (Methyl and ethyl me		03 - EU pro	oject	
		EN/ENTR/000/2002-16 card				
	- OSH	A 94 (Methyl Methacrylate) -				
BMGV:			Other inform	mation:	-	
Chemical Name	2,6-di-tert-butyl-p-creso	I			(	Content %:0 <2,5
WEL-TWA: 10 mg/m3	W	EL-STEL:				
Monitoring procedures:						
BMGV:			Other inform	mation:	-	
Methyl methacrylate			1	1	1	
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,94	mg/l	
	Environment - soil		PNEC	1,47	mg/kg	
	Environment - sewage		PNEC	10	mg/l	
	treatment plant					
	Environment - marine		PNEC	0,094	mg/l	
	Environment - sediment		PNEC	5,74	mg/kg	
	Environment - sediment,		PNEC	10,2	mg/kg	
	freshwater					
	Environment - sediment,		PNEC	0,102	mg/kg	
	marine					
Consumer	Human - inhalation	Short term, local effects	DNEL	208	mg/m3	
Consumer	Human - oral	Long term, systemic	DNEL	8,2	mg/kg	
		effects		-,-		
Consumer	Human - dermal	Short term, local	DNEL	1,5	mg/cm2	
		effects			0	
Consumer	Human - inhalation	Long term, local effects	DNEL	104	mg/m3	
Consumer	Human - dermal	Long term, local effects	DNEL	1,5	mg/cm2	
Consumer Human - inhalation		Long term, systemic effects	DNEL	74,3	mg/m3	
Consumer Human - dermal		Long term, systemic effects	DNEL	8,2	mg/kg bw/day	
Consumer	Human - oral	Long term, local effects	DNEL	1,5	mg/cm2	
ndustrial / commercial	Human - dermal	Long term, local effects	DNEL	1,5	mg/cm2	
ndustrial / commercial	Human - inhalation	Long term, local effects	DNEL	208	mg/m3	
ndustrial / commercial	Human - inhalation	Long term, systemic effects	DNEL	208	mg/m3	
Industrial / commercial	Human - dermal	Long term, systemic effects	DNEL	13,67	mg/kg	
Industrial / commercial	Human - dermal	Short term, local effects	DNEL	1,5	mg/cm2	



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Workers / employees	Human - inhalation	Long term, local effects	DNEL	208	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	1,5	mg/cm2	
Workers / employees	Human - inhalation	Short term, local	DNEL	416	mg/m3	
		effects				
Workers / employees	Human - dermal	Long term, systemic	DNEL	13,67	mg/kg	
		effects				
Workers / employees	Human - inhalation	Long term, systemic	DNEL	348,4	mg/m3	
		effects				
Workers / employees	Human - dermal	Short term, local	DNEL	1,5	mg/cm2	
		effects				

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - soil		PNEC	1,04	mg/kg wwt	
	Environment - sewage		PNEC	0,17	mg/l	
	treatment plant					
	Environment - sediment		PNEC	1,29	mg/kg wwt	
	Environment - marine		PNEC	0,02	µg/l	
	Environment - water,		PNEC	1,99	µg/l	
	sporadic (intermittent)					
	release					
	Environment - freshwater		PNEC	0,199	µg/l	
	Environment - oral (animal		PNEC	8,33	mg/kg feed	
	feed)					
	Environment - soil		PNEC	0,04769	mg/kg dw	
	Environment - sediment,		PNEC	0,0996	mg/kg dw	
	freshwater					
	Environment - sediment,		PNEC	0,00996	mg/kg dw	
	marine					
Consumer	Human - inhalation	Long term, systemic	DNEL	0,86	mg/m3	
		effects				
Consumer	Human - dermal	Long term, systemic	DNEL	0,25	mg/kg bw/d	
		effects				
Consumer	Human - oral	Long term, systemic	DNEL	0,25	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	3,5	mg/m3	
		effects			-	
Workers / employees	Human - dermal	Long term, systemic	DNEL	0,5	mg/kg	
		effects			bw/day	

B WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

# 8.2 Exposure controls8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.



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Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

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EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective gloves in butyl rubber (EN ISO 374). Minimum layer thickness in mm: 0,7 Permeation time (penetration time) in minutes: > 60 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: If OES or MEL is exceeded. Gas mask filter A (EN 14387), code colour brown Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Paste, liquid. Light yellow Slightly, Penetrating There is no information available on this parameter. 101 °C Flammable 2,1 Vol-% 12,5 Vol-% 11 °C (closed cup) 430 °C



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Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density:

Relative vapour density: Particle characteristics:

#### 9.2 Other information

Explosives:

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Oxidising liquids:

There is no information available on this parameter. 4,5-5,5 40000-80000 cP (25°C, Dynamic viscosity ) Not miscible Does not apply to mixtures. 47 hPa (20°C) 0,9-1 (25°C, relative density ) There is no information available on this parameter. Does not apply to liquids.

Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.

#### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known.

#### 10.4 Conditions to avoid

Heating, open flame, ignition sources

#### **10.5 Incompatible materials**

Avoid contact with strong alkalis. Avoid contact with strong oxidizing agents. Avoid contact with strong acids.

#### **10.6 Hazardous decomposition products**

No decomposition when used as directed.

**SECTION 11: Toxicological information** 

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Methyl methacrylate							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>6000	mg/kg	Rat	OECD 401 (Acute Oral		
					Toxicity)		



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_iquimate 2-Component Power A	Adhesive (B)					
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	29,8	mg/l/4h	Rat		Vapours
Skin corrosion/irritation:				Rabbit		Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant
Respiratory or skin				Human being	Initation/Conosion)	Skin Sens. 1
sensitisation:				lianan senig		
Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
<b></b>					Reverse Mutation Test)	NI C
Carcinogenicity:						Negative
pecific target organ toxicity -	NOAEL	2000	nnm	Rat		Negative
epeated exposure (STOT-RE):	NOALL	2000	ppm	INdi		
Aspiration hazard:						No indications
						such an effect.
Specific target organ toxicity -	NOAEL	25	ppm	Rat	OECD 453 (Combined	
epeated exposure (STOT-RE),					Chronic	
nhalat.:					Toxicity/Carcinogenicity	
					Studies)	
symptoms:						breathing
						difficulties,
						respiratory
						distress,
						drowsiness, dr
						in blood
						pressure,
						coughing,
						headaches,
						fatigue, mucou
						membrane
						limit a the in
						Irritation.
						irritation, watering eyes,
						watering eyes,
E diathad 4 2 dibudes 4 mbass	1.2					watering eyes,
				Organism	Test method	watering eyes, mental confusi
oxicity / effect	Endpoint	Value	Unit ma/ka	Organism Rat	Test method	watering eyes,
oxicity / effect cute toxicity, by oral route:	Endpoint LD50	<b>Value</b> >500	mg/kg	Rat	Test method	watering eyes, mental confusi
oxicity / effect acute toxicity, by oral route: acute toxicity, by dermal route:	Endpoint	Value			Test method	watering eyes, mental confusi
oxicity / effect acute toxicity, by oral route: acute toxicity, by dermal route: ,6-di-tert-butyl-p-cresol	Endpoint LD50 LD50	Value >500 >1000	mg/kg mg/kg	Rat Rabbit		watering eyes, mental confusi
oxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by dermal route: Acute toxicity, by dermal route: Acute toxicity, by dermal route: Acute toxicity / effect	Endpoint LD50 LD50 Endpoint	Value >500 >1000 Value	mg/kg mg/kg Unit	Rat Rabbit Organism	Test method	watering eyes, mental confusi
Toxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by der	Endpoint LD50 LD50	Value >500 >1000	mg/kg mg/kg	Rat Rabbit	Test method OECD 401 (Acute Oral	watering eyes, mental confusi
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         2,6-di-tert-butyl-p-cresol         Foxicity / effect         Acute toxicity, by oral route:	Endpoint LD50 LD50 Endpoint LD50	Value           >500           >1000           Value           >2930	mg/kg mg/kg Unit mg/kg	Rat Rabbit Organism Rat	Test method OECD 401 (Acute Oral Toxicity)	watering eyes, mental confusi
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         2,6-di-tert-butyl-p-cresol         Foxicity / effect         Acute toxicity, by oral route:	Endpoint LD50 LD50 Endpoint	Value >500 >1000 Value	mg/kg mg/kg Unit	Rat Rabbit Organism	Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute	watering eyes, mental confusi
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         2,6-di-tert-butyl-p-cresol         Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:	Endpoint LD50 LD50 Endpoint LD50	Value           >500           >1000           Value           >2930	mg/kg mg/kg Unit mg/kg	Rat Rabbit Organism Rat	Test method OECD 401 (Acute Oral Toxicity)	watering eyes, mental confusi
oxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         content toxicity, by dermal route:         content toxicity, by oral route:         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Skin corrosion/irritation:	Endpoint LD50 LD50 Endpoint LD50	Value           >500           >1000           Value           >2930	mg/kg mg/kg Unit mg/kg	Rat       Rabbit       Organism       Rat       Rabbit	Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity)	Notes
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Skin corrosion/irritation:         Serious eye damage/irritation:	Endpoint LD50 LD50 Endpoint LD50	Value           >500           >1000           Value           >2930	mg/kg mg/kg Unit mg/kg	Rat         Rabbit         Organism         Rat         Rabbit         Rabbit	Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute	Notes Not irritant Not irritant
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Coxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Skin corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin         Rensitisation:	Endpoint LD50 LD50 Endpoint LD50	Value           >500           >1000           Value           >2930	mg/kg mg/kg Unit mg/kg	Rat         Rabbit         Organism         Rat         Rabbit         Rabbit         Rabbit         Rabbit	Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity)	Notes Not irritant Not irritant No (skin conta
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Coxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Skin corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin         Bernsitisation:         Germ cell mutagenicity:	Endpoint LD50 LD50 Endpoint LD50	Value           >500           >1000           Value           >2930	mg/kg mg/kg Unit mg/kg	Rat         Rabbit         Organism         Rat         Rabbit         Rabbit         Rabbit         Human being	Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity)	Notes Not irritant Not irritant No (skin conta Negative
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Coxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Skin corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin         sensitisation:         Berm cell mutagenicity:	Endpoint LD50 LD50 Endpoint LD50 LD50	Value           >500           >1000           Value           >2930           >2000	mg/kg mg/kg Unit mg/kg mg/kg	Rat         Rabbit         Organism         Rat         Rabbit         Rabbit         Rabbit         Human being         Mouse	Test method         OECD 401 (Acute Oral Toxicity)         OECD 402 (Acute Dermal Toxicity)         (Draize-Test)	Notes Not irritant Not irritant No (skin conta Negative Negative
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Coxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Skin corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin         sensitisation:         Germ cell mutagenicity:	Endpoint LD50 LD50 Endpoint LD50	Value           >500           >1000           Value           >2930	mg/kg mg/kg mg/kg mg/kg mg/kg	Rat         Rabbit         Organism         Rat         Rabbit         Rabbit         Rabbit         Human being	Test method         OECD 401 (Acute Oral Toxicity)         OECD 402 (Acute Dermal Toxicity)         (Draize-Test)         (Ames-Test)	Notes Not irritant Not irritant No (skin conta Negative
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Content of the second	Endpoint LD50 LD50 LD50 LD50 LD50	Value         >500         >1000         Value         >2930         >2000	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg bw/d	Rat         Rabbit         Organism         Rat         Rabbit         Rabbit         Human being         Mouse         Rat	Test method         OECD 401 (Acute Oral Toxicity)         OECD 402 (Acute Dermal Toxicity)         (Draize-Test)         (Ames-Test)	Notes Not irritant Not irritant No (skin conta Negative Negative
3,5-diethyl-1,2-dihydro-1-pheny Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: 2,6-di-tert-butyl-p-cresol Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by dermal route: Skin corrosion/irritation: Serious eye damage/irritation: Serious eye damage/irritation: Carcinogenicity: Carcinogenicity: Carcinogenicity:	Endpoint LD50 LD50 Endpoint LD50 LD50	Value           >500           >1000           Value           >2930           >2000	mg/kg mg/kg mg/kg mg/kg mg/kg	Rat         Rabbit         Organism         Rat         Rabbit         Rabbit         Rabbit         Human being         Mouse	Test method         OECD 401 (Acute Oral Toxicity)         OECD 402 (Acute Dermal Toxicity)         (Draize-Test)         (Ames-Test)	Notes Not irritant Not irritant No (skin contac Negative Negative
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route: <b>Context Transport</b> Acute toxicity, by oral route:         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Skin corrosion/irritation:         Serious eye damage/irritation:         Germ cell mutagenicity:         Germ cell mutagenicity:         Carcinogenicity:         Reproductive toxicity         (Developmental toxicity):	Endpoint LD50 LD50 LD50 LD50 LD50 LD50 NOAEL NOAEL	Value           >500           >1000           Value           >2930           >2000           247           100	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg bw/d mg/kg	Rat         Rabbit         Organism         Rat         Rabbit         Rabbit         Human being         Mouse         Rat         Rat         Rat	Test method         OECD 401 (Acute Oral Toxicity)         OECD 402 (Acute Dermal Toxicity)         (Draize-Test)         (Ames-Test)	Notes Not irritant Not irritant No (skin contac Negative Negative
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Positive / effect         Acute toxicity, by oral route:         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Skin corrosion/irritation:         Serious eye damage/irritation:         Bernous eye damage/irritation:         Germ cell mutagenicity:         Germ cell mutagenicity:         Carcinogenicity:         Reproductive toxicity         Developmental toxicity):         Reproductive toxicity (Effects	Endpoint LD50 LD50 LD50 LD50 LD50	Value         >500         >1000         Value         >2930         >2000	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg bw/d	Rat         Rabbit         Organism         Rat         Rabbit         Rabbit         Human being         Mouse         Rat	Test method         OECD 401 (Acute Oral Toxicity)         OECD 402 (Acute Dermal Toxicity)         (Draize-Test)         (Ames-Test)	Notes Not irritant Not irritant No (skin contac Negative Negative
Foxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route: <b>Context / effect</b> Acute toxicity, by oral route:         Acute toxicity, by dermal route:         Acute toxicity, by dermal route:         Skin corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin         Sensitisation:         Germ cell mutagenicity:         Carcinogenicity:         Reproductive toxicity	Endpoint LD50 LD50 LD50 LD50 LD50 LD50 NOAEL NOAEL	Value         >500         >1000         Value         >2930         >2000	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg bw/d mg/kg	Rat         Rabbit         Organism         Rat         Rabbit         Rabbit         Human being         Mouse         Rat         Rat         Rat	Test method         OECD 401 (Acute Oral Toxicity)         OECD 402 (Acute Dermal Toxicity)         (Draize-Test)         (Ames-Test)	Notes Not irritant Not irritant No (skin contac Negative Negative

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Aspiration hazard:			No
Symptoms:			mucous
			membrane
			irritation

#### 11.2. Information on other hazards

Liquimate 2K Power Kleber (B) Liquimate 2-Component Power Adhesive (B)								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Endocrine disrupting properties:						Does not apply to mixtures.		
Other information:						No other relevant information available on adverse effects on health.		

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

 Liquimate 2K Power Kleber (B)

Liquimate 2-Component Power Adhesive (B)								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:							n.d.a.	
12.1. Toxicity to daphnia:							n.d.a.	
12.1. Toxicity to algae:							n.d.a.	
12.2. Persistence and							n.d.a.	
degradability:								
12.3. Bioaccumulative							n.d.a.	
potential:								
12.4. Mobility in soil:							n.d.a.	
12.5. Results of PBT							n.d.a.	
and vPvB assessment								
12.6. Endocrine							Does not apply	
disrupting properties:							to mixtures.	
12.7. Other adverse							No information	
effects:							available on	
							other adverse	
							effects on the	
							environment.	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
2.1. Toxicity to algae:	NOEC/NOEL	72h	49	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
				_	a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	37	mg/l	Daphnia magna	OECD 211	
				_		(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to fish:	LC50	96h	130	mg/l	Pimephales	OECD 203 (Fish,	
					promelas	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	69	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	96h	37	mg/l	Selenastrum	OECD 201 (Alga,	
					capricornutum	Growth Inhibition	
						Test)	



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12.2. Persistence and		28d	>95	%	OECD 302 B Readily
degradability:					(Inherent biodegradable
					Biodegradability -
					Zahn-
					Wellens/EMPA
					Test)
12.3. Bioaccumulative	Log Pow		1,32-		OECD 107 A notable
potential:			1,38		(Partition biological
					Coefficient (n- accumulation
					octanol/water) - potential is not
					Shake Flask be expected
					Method) (LogPow 1-3).
12.5. Results of PBT					No PBT
and vPvB assessment					substance, No
					vPvB substanc

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.4. Mobility in soil:	Log Koc		3,9-4,2				
Other information:	Koc		14750				
Other information:	Log Koc		3,9-4,2				
12.1. Toxicity to fish:	LC50	96h	>0,57	mg/l	Brachydanio rerio	84/449/EEC C.1	
12.1. Toxicity to fish:	NOEC/NOEL	42d	0,053	mg/l	Oryzias latipes	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.3. Bioaccumulative potential:			230- 2500		Cyprinus carpio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	56d
12.1. Toxicity to daphnia:	EC50	48h	0,45	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,023	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	
12.1. Toxicity to algae:	EC50	72h	>0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	
12.2. Persistence and degradability:		28d	4,5	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		5,1				High
12.3. Bioaccumulative potential:	BCF		>2000		Cyprinus caprio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	
12.4. Mobility in soil:	Koc		14750				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substanc



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Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	AOX						Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
Water solubility:			0,00076	g/l			

# SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

#### EC disposal code no.:

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The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

Hardened product: E.g. dispose at suitable refuse site.

L.g. dispose at suitable refuse site.

# For contaminated packing material

Pay attention to local and national official regulations. Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

# **SECTION 14: Transport information**

General statements		
14.1. UN number or ID number:	1993	
Transport by road/by rail (ADR/RID)		
14.2. UN proper shipping name:		•
UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYLMETHACRYLATE)		
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	•
Classification code:	F1	
LQ:	1L	
14.5. Environmental hazards:	Not applicable	
Tunnel restriction code:	D/E	
Transport by sea (IMDG-code)		
14.2. UN proper shipping name:		•
FLAMMABLE LIQUID, N.O.S. (METHYLMETHACRYLATE)		
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	-
EmS:	F-E, S-E	
Marine Pollutant:	n.a	



06, Annex II	
Not applicable	
3	
II.	•
Not applicable	
trained	
to IMO instruments	
unt.	
5: Regulatory information	
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### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe restrictions:

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Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
P5c		5000	50000

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

70 %

Directive 2010/75/EU (VOC):

Observe incident regulations.

# 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

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Revised sections:

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Flam. Liq. 2, H225	Classification based on test data.
STOT SE 3, H335	Classification according to calculation procedure.



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Skin Irrit. 2, H315	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Skin Irrit. — Skin irritation Skin Sens. — Skin sensitization Aquatic Chronic — Hazardous to the aquatic environment - chronic Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - oral Eye Irrit. — Eye irritation Aquatic Acute — Hazardous to the aquatic environment - acute

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

#### Any abbreviations and acronyms used in this document:

according, according to acc., acc. to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) Acute Toxicity Estimate ATE Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF Bioconcentration factor BSEF The International Bromine Council body weight bw CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level



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wet weight wwt

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The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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