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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 25.10.2023 / 0019

Replacing version dated / version: 14.08.2023 / 0018

Valid from: 25.10.2023 PDF print date: 10.01.2025 Liquimate 2K Power Kleber (A)

Liquimate 2-Component Power Adhesive (A)

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by **Regulation (EU) 2020/878)**

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

1.1 Product identifier

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:

Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

+1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP) Hazard category

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.

3 Aquatic Chronic H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements



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



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.

Methacrylic acid
Methyl methacrylate
2-hydroxyethyl methacrylate
alpha_alpha_dimethylbenzi

.alpha.,.alpha.-dimethylbenzyl hydroperoxide

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Tosyl chloride

Bis(methacryloyloxyethyl) hydrogen phosphate

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

Substance for which an EU exposure limit value applies. Methyl methacrylate Registration number (REACH) 01-2119452498-28-XXXX 607-035-00-6 Index EINECS, ELINCS, NLP, REACH-IT List-No. 201-297-1 CAS 80-62-6 20-<50 content % Flam. Liq. 2, H225 Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Skin Irrit. 2, H315 Skin Sens. 1, H317 **STOT SE 3, H335**



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Mathagadia	
Methacrylic acid	
Registration number (REACH)	01-2119463884-26-XXXX
Index	607-088-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	201-204-4
CAS	79-41-4
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H312
	Acute Tox. 4, H302
	Skin Corr. 1A, H314
	Eye Dam. 1, H318
Specific Concentration Limits and ATE	STOT SE 3, H335: >=1 %
	ATE (oral): 1320 mg/kg
	ATE (dermal): 1100 mg/kg

Tosyl chloride	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	202-684-8
CAS	98-59-9
content %	2-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Met. Corr. 1, H290
	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Skin Sens. 1, H317
	Aquatic Chronic 3, H412

.alpha.,.alphadimethylbenzyl 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
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Org. Perox. Type E, H242
	Acute Tox. 3, H331
	Acute Tox. 4, H312
	Acute Tox. 4, H302
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	STOT RE 2, H373
	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 %
	ATE (oral): 382 mg/kg
	ATE (dermal): 1200 mg/kg
	ATE (as inhalation, Dusts or mist): 0,5 mg/l/4h
	ATE (as inhalation, Vapours): 3 mg/l/4h

2,6-di-tert-butyl-p-cresol	
Registration number (REACH)	01-2119565113-46-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	204-881-4
CAS	128-37-0
content %	1-<2
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

2-hydroxyethyl methacrylate	
Registration number (REACH)	01-2119490169-29-XXXX
Index	607-124-00-X
EINECS, ELINCS, NLP, REACH-IT List-No.	212-782-2



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CAS	868-77-9
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Skin Sens. 1, H317

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-	
2H-isothiazol-3-one (3:1)	
Registration number (REACH)	
Index	613-167-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	55965-84-9
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH071
	Acute Tox. 2, H310
	Acute Tox. 2, H330
	Acute Tox. 3, H301
	Skin Corr. 1C, H314
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	Aquatic Acute 1, H400 (M=100)
	Aquatic Chronic 1, H410 (M=100)
Specific Concentration Limits and ATE	Skin Corr. 1C, H314: >=0,6 %
	Skin Irrit. 2, H315: >=0,06 %
	Eye Dam. 1, H318: >=0,6 %
	Eye Irrit. 2, H319: >=0,06 %
	Skin Sens. 1A, H317: >=0,0015 %
	ATE (oral): 64 mg/kg
	ATE (dermal): 87 mg/kg
	ATE (as inhalation, Dusts or mist): 0,17 mg/l/4h
	ATE (as inhalation, Vapours): 0,5 mg/l/4h

Cumene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	601-024-00-X
EINECS, ELINCS, NLP, REACH-IT List-No.	202-704-5
CAS	98-82-8
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226
	Carc. 1B, H350
	STOT SE 3, H335
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

Bis(methacryloyloxyethyl) hydrogen phosphate	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	251-040-2
CAS	32435-46-4
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Dam. 1, H318
	Skin Sens. 1B, H317

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.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures



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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.

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



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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. Avoid 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.

Store in a well ventilated place.

Store cool.

Observe special storage conditions.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection



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8.1 Control parameters

Chemical Name Methyl me	
WEL-TWA: 50 ppm (208 mg/m3) (WEL-TWA),	50 WEL-STEL: 100 ppm (416 mg/m3) (WEL-STEL), 100
ppm (EU)	ppm (EU)
Monitoring procedures:	- Compur - KITA-184 S (548 618)
	NIOSH 2537 (Methyl and ethyl metacrylate) - 2003 - EU project
	- BC/CEN/ENTR/000/2002-16 card 109-2 (2004)
	- OSHA 94 (Methyl Methacrylate) - 1992
BMGV:	Other information:
Chemical Name Methacryli	c acid
WEL-TWA: 20 ppm (72 mg/m3)	WEL-STEL: 40 ppm (143 mg/m3)
Monitoring procedures:	
BMGV:	Other information:
Chemical Name Tosyl chlor	ride
WEL-TWA:	WEL-STEL: 5 mg/m3
Monitoring procedures:	
BMGV:	Other information:
Chemical Name 2,6-di-tert-	butyl-p-cresol
WEL-TWA: 10 mg/m3	WEL-STEL:
Monitoring procedures:	
BMGV:	Other information:
© Chemical Name Cumene	
WEL-TWA: 125 mg/m3 (25 ppm) (WEL-TWA),	50 WEL-STEL: 250 mg/m3 (50 ppm) (WEL-STEL, EU)
mg/m3 (10 ppm) (EU)	
Monitoring procedures:	- NIOSH 1501 (HYDROCARBONS, AROMATIC) - 2003
	- OSHA PV2137 (Cumene) - 2004
BMGV: 7 mg/g creatinine (2-phenyl-2-propano	I, urine, sampled within 2 hours post Other information: Sk
shift, SCOEL/REC/029) (EU)	

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	0,94	mg/l	
	Environment - soil		PNEC	1,47	mg/kg	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - marine		PNEC	0,094	mg/l	
	Environment - sediment		PNEC	5,74	mg/kg	
	Environment - sediment, freshwater		PNEC	10,2	mg/kg	
	Environment - sediment, marine		PNEC	0,102	mg/kg	
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	



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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	

Methacrylic acid						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, local effects	DNEL	6,55	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	6,3	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	2,55	mg/kg bw/d	
Consumer	Human - dermal	Short term, local effects	DNEL	1	% (w/w)	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	29,6	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	88	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	4,25	mg/kg bw/d	

.alpha.,.alphadimethylbe	enzyl hydroperoxide					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,0031	mg/l	
	Environment - marine		PNEC	0,00031	mg/l	
	Environment - sporadic (intermittent) release		PNEC	0,031	mg/l	
	Environment - soil		PNEC	0,0029	mg/kg	
	Environment - sewage treatment plant		PNEC	0,35	mg/l	
	Environment - sediment, freshwater		PNEC	0,023	mg/kg	
	Environment - sediment, marine		PNEC	0,0023	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	6	mg/m3	

2,6-di-tert-butyl-p-cresol									
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note			
	Environmental								
	compartment								
	Environment - freshwater		PNEC	0,199	μg/l				
	Environment - marine		PNEC	0,02	μg/l				



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	Environment - water, sporadic (intermittent) release		PNEC	1,99	μg/l
	Environment - sediment, freshwater		PNEC	0,458	mg/kg dw
	Environment - sediment, marine		PNEC	0,046	mg/kg dw
	Environment - soil		PNEC	0,054	mg/kg dw
	Environment - oral (animal feed)		PNEC	16,67	mg/kg
	Environment - sewage treatment plant		PNEC	0,017	mg/l
Consumer	Human - oral	Long term, systemic effects	DNEL	0,25	mg/kg bw/d
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,25	mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,435	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,5	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1,76	mg/m3

2-hydroxyethyl methacry						
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - water		PNEC	0,482	mg/kg	
	Environment - water,		PNEC	1	mg/l	
	sporadic (intermittent)					
	release					
	Environment - marine		PNEC	0,482	mg/l	
	Environment - sewage		PNEC	10	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	3,79	mg/kg	
	freshwater					
	Environment - sediment,		PNEC	3,79	mg/kg	
	marine					
	Environment - soil		PNEC	0,476	mg/kg	
Consumer	Human - oral	Long term, systemic	DNEL	0,83	mg/kg	
		effects			bw/day	
Consumer	Human - dermal	Long term, systemic	DNEL	0,83	mg/kg	
		effects			bw/day	
Consumer	Human - inhalation	Long term, systemic	DNEL	2,9	mg/m3	
		effects				
Workers / employees	Human - inhalation	Long term	DNEL	4,9	mg/m3	
Workers / employees	Human - dermal	Long term	DNEL	1,3	mg/kg bw/d	

- United Kingdom | WEL-TWA = Workplace Exposure Limit Long-term exposure limit 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)). (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE).
- | WEL-STEL = Workplace Exposure Limit Short-term exposure limit 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be



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absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU: (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

8.2 Exposure controls

8.2.1 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:

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: Liquid Colour: Amber

Odour:

There is no information available on this parameter.

Melting point/freezing point:

There is no information available on this parameter.

Boiling point or initial boiling point and boiling range: 100,5 °C (Methyl methacrylate)

Flammability:

There is no information available on this parameter.

Lower explosion limit:

2,1 Vol-% (10.5°C, Methyl methacrylate)

2,1 Vol-% (10,5°C, Methyl methacrylate) 12,5 Vol-% (Methyl methacrylate)

15 °C

421 °C (Methyl methacrylate)

There is no information available on this parameter.

2-3 (50 %)

120000-180000 cP (Dynamic viscosity)

Not miscible

Does not apply to mixtures.

53 hPa (20°C)

0,97

Relative vapour density: There is no information available on this parameter.

Does not apply to liquids.

Particle characteristics: 9.2 Other information

Density and/or relative density:

No information available at present.

Partition coefficient n-octanol/water (log value):

SECTION 10: Stability and reactivity

10.1 Reactivity

Upper explosion limit:

Kinematic viscosity:

Vapour pressure:

Auto-ignition temperature: Decomposition temperature:

Flash point:

Solubility:

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).

Liquimate 2K Power Kleber (A)						
Liquimate 2-Component Powe	r Adhesive (A))				
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			Vapours,
						calculated value
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			Aerosol,
						calculated value
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.



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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.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
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 Irritation/Corrosion)	Mild irritant
Respiratory or skin sensitisation:				Human being	,	Skin Sens. 1
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:					,	Negative
Reproductive toxicity:						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	2000	ppm	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	25	ppm	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	
Aspiration hazard:						No indications of such an effect.
Symptoms:						breathing difficulties, respiratory distress, drowsiness, dro in blood pressure, coughing, headaches, fatigue, mucous membrane irritation, watering eyes, mental confusio

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1320-2260	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by oral route:	LD50	1250	mg/kg	Mouse		
Acute toxicity, by oral route:	ATE	1320	mg/kg			
Acute toxicity, by dermal route:	ATE	1100	mg/kg			
Acute toxicity, by inhalation:	LC50	7,1	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive



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Serious eye damage/irritation:	Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Corrosive
Respiratory or skin sensitisation:	Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:		in vitro	Negative
Symptoms:			asthmatic symptoms, respiratory distress, eyes, reddened, unconsciousness , burning of the membranes of the nose and throat, heart/circulatory disorders, cornea opacity, coughing, headaches

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	382	mg/kg	Rat		
Acute toxicity, by oral route:	ATE	382	mg/kg			
Acute toxicity, by dermal route:	ATE	1200	mg/kg			
Acute toxicity, by dermal route:	LD50	1200	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	220	ppm	Rat		(4h)
Acute toxicity, by inhalation:	ATE	3	mg/l/4h			Vapours
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Dusts or mist
Skin corrosion/irritation:				Rabbit		Skin Corr. 1B
Symptoms:						respiratory
						distress,
						vomiting, cornea
						opacity,
						coughing,
						mucous
						membrane
						irritation

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	Rat	OECD 402 (Acute			
					Dermal Toxicity)			
Skin corrosion/irritation:						Irritant		
Serious eye damage/irritation:						Irritant		
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)		
sensitisation:					Sensitisation)			

2-hydroxyethyl methacrylate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	5050	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>3000	mg/kg	Rabbit		
Serious eye damage/irritation:				Rabbit	(Draize-Test)	Eye Irrit. 2
Respiratory or skin				Guinea pig		Skin Sens. 1
sensitisation:						



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Symptoms:			breathing difficulties, coughing, mucous membrane
			irritation

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	64-66	mg/kg	Rat		
Acute toxicity, by oral route:	ATE	64	mg/kg			
Acute toxicity, by dermal route:	ATE	87	mg/kg			
Acute toxicity, by dermal route:	LD50	87,12	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	0,17-0,33	mg/l/4h	Rat	OECD 403 (Acute	Aerosol
					Inhalation Toxicity)	
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Vapours
Acute toxicity, by inhalation:	ATE	0,17	mg/l/4h			Dusts or mist
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Corrosive
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit		Corrosive
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin
sensitisation:					Sensitisation)	contact)
Symptoms:						diarrhoea,
						mucous
						membrane
						irritation,
						watering eyes

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:			3 3	Rabbit	OECD 404 (Acute	Not irritant
					Dermal `	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative
					Erythrocyte	
					Micronucleus Test)	
Carcinogenicity:				Mouse	OECD 451	Carc. 1B
D					(Carcinogenicity Studies)	NI d
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative
(Developmental toxicity):					Developmental Toxicity	
D 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Study)	NI C
Reproductive toxicity (Effects				Rat		Negative
on fertility):	NOAFI	405		D-4	OFOD 440 (Out also	\/
Specific target organ toxicity -	NOAEL	125	ppm	Rat	OECD 413 (Subchronic	Vapours
repeated exposure (STOT-RE),					Inhalation Toxicity - 90-	
inhalat.:					Day Study)	



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Symptoms:		breathing
		difficulties,
		respiratory
		distress,
		abdominal pain,
		drowsiness,
		unconsciousness
		, diarrhoea,
		vomiting,
		coughing,
		headaches,
		cramps,
		drowsiness,
		mucous
		membrane
		irritation,
		dizziness,
		watering eyes,
		nausea and
		vomiting.

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 Kle	ber (A)									
Liquimate 2-Component	Liquimate 2-Component Power Adhesive (A)									
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.			

Methyl methacrylate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
			•				



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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	
12.11. Toxiony to daprima.	2000	1011	00	1119/1	Baprinia magna	(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	37	mg/l	Daphnia magna	OEĆD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	49	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	EC50	96h	37	mg/l	Selenastrum	OECD 201 (Alga,	
					capricornutum	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	>95	%		OECD 302 B	Readily
degradability:						(Inherent	biodegradable
						Biodegradability -	
						Zahn-	
						Wellens/EMPA	
10.0.0			1.00			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 to
						Shake Flask	be expected
12.5. Results of PBT						Method)	(LogPow 1-3). No PBT
and vPvB assessment							substance, No vPvB substance
							VE VD SUDSIANCE

Methacrylic acid Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	85	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	Notes
12.1. Toxicity to fish:	LC50	96h	100-180	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	35d	10	mg/l	Brachydanio rerio	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>130	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	53	mg/l		OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	45	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	86	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	



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12.3. Bioaccumulative	Log Pow	0,93	Bioaccumulation
potential:			is unlikely
			(LogPow < 1).

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	3,9	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	18	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	ErC50	72h	3,1	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	3	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	

2,6-di-tert-butyl-p-cresol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,199	mg/l		QSAR	
12.1. Toxicity to fish:	NOEC/NOEL	30d	0,053	mg/l	Oryzias latipes	OECD 210 (Fish,	
						Early-Life Stage	
						Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,069	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,48	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	IC50	72h	0,42	mg/l			
12.2. Persistence and			30	%		OECD 302 C	Not readily
degradability:						(Inherent	biodegradable
						Biodegradability -	
						Modified MITI	
						Test (II))	
12.3. Bioaccumulative	BCF		598				Concentration in
potential:							organisms
							possible.
12.3. Bioaccumulative potential:	Log Pow		5,03				QSAR
Toxicity to bacteria:	EC50	24h	1,7	mg/l			Tetrahymena
							pyriformis

2-hydroxyethyl methacrylate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	227	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	380	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	



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12.1. Toxicity to daphnia:	NOEC/NOEL	21d	24,1	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	345	mg/l	Selenastrum	OECD 201 (Alga,	
12:11 Toxiony to aigas.	2000		0.0	1119/1	capricornutum	Growth Inhibition	
					capiloomatam	Test)	
12.2. Persistence and		28d	84	%		OECD 301 D	Readily
		20u	04	/0			
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle Test)	
12.3. Bioaccumulative	Log Pow		0,47			OECD 107	Bioaccumulation
potential:						(Partition	is unlikely
						Coefficient (n-	(LogPow < 1).
						octanol/water) -	, ,
						Shake Flask	
						Method)	
12.5. Results of PBT						Mouroup	No PBT
and vPvB assessment							substance, No
and vi vb assessment							vPvB substance
Taviaituta haatavia	FC00	406	. 2000		Desudement		AL AD SUDSIGNED
Toxicity to bacteria:	EC20	16h	>3000	mg/l	Pseudomonas		
	1				fluorescens		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,22	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	28d	0,098	mg/l	Oncorhynchus mykiss	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,004	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,1	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	48h	0,00064	mg/l	Skeletonema costatum	OEĆD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	0,048	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:			>60	%	activated sludge	OEĆD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		0,75			,	Not to be expected
12.3. Bioaccumulative potential:	BCF		3,6				calculated value

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.



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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.

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

2924

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYLMETHACRYLATE, METHACRYLIC ACID, INHIBITED)

14.3. Transport hazard class(es): 3(8)
14.4. Packing group: II

14.5. Environmental hazards:

Not applicable

Tunnel restriction code: D/E
Classification code: FC
LQ: 1 L
Transport category: 2

Transport by sea (IMDG-code)

14.1. UN number or ID number: 2924

14.2. UN proper shipping name:

UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYLMETHACRYLATE, METHACRYLIC ACID, INHIBITED)

14.3. Transport hazard class(es): 3(8)
14.4. Packing group: II

14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS:F-E, S-C

Transport by air (IATA)

14.1. UN number or ID number: 2924

14.2. UN proper shipping name:

UN 2924 Flammable liquid, corrosive, n.o.s. (METHYLMETHACRYLATE, METHACRYLIC ACID, INHIBITED)

14.3. Transport hazard class(es):3(8)14.4. Packing group:II

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 IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information









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Liquimate 2-Component Power Adhesive (A)

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)! Regulation (EC) No 1907/2006, Annex XVII

Cumene

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! 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.):

according to storage, narialing cto	·/·		
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):

57 %

Treated goods as per Regulation (EU) No. 528/2012 must display specific information on the label.

Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012.

Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.

These are indicated in the approval of the active substance.

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2, 8

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	Evaluation method used
(EC) No. 1272/2008 (CLP)	
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 based on the pH value.
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. H330 Fatal if inhaled.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.



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H225 Highly flammable liquid and vapour.

H242 Heating may cause a fire.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H350 May cause cancer.

EUH071 Corrosive to the respiratory tract.

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

Met. Corr. — Substance or mixture corrosive to metals

Org. Perox. — Organic peroxide

Acute Tox. — Acute toxicity - inhalation

STOT RE — Specific target organ toxicity - repeated exposure

Aquatic Acute — Hazardous to the aquatic environment - acute

Eye Irrit. — Eye irritation

Carc. — Carcinogenicity

Asp. Tox. — Aspiration hazard

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:

acc., acc. to according, according 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

Art., Art. no. Article number



-(GB)

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ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council 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

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
ECy Ely (y = 0.3.5.10.20.50.80.5

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

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

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

ncl. 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

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight

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 Polvethylene

PNEC Predicted No Effect Concentration



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ppm parts per million PVC Polyvinylchloride

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. 6/7/8/9xx-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

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.

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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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by **Regulation (EU) 2020/878)**

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

1.1 Product identifier

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:

Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

+1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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. H315-Causes skin irritation.

Skin Sens. 1 H317-May cause an allergic skin reaction.

3 H412-Harmful to aquatic life with long lasting effects. Aquatic Chronic

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

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Aniline

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)	01-2119452498-28-XXXX
Index	607-035-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	201-297-1
CAS	80-62-6
content %	75-100
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
CAS	34562-31-7
content %	2-<10



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Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Acute Tox. 4, H312
	Skin Irrit. 2, H315
Specific Concentration Limits and ATE	ATE (oral): 500 mg/kg

2,6-di-tert-butyl-p-cresol	
Registration number (REACH)	01-2119565113-46-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	204-881-4
CAS	128-37-0
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-	
2H-isothiazol-3-one (3:1)	
Registration number (REACH)	
Index	613-167-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	55965-84-9
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH071
	Acute Tox. 2, H310
	Acute Tox. 2, H330
	Acute Tox. 3, H301
	Skin Corr. 1C, H314
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	Aquatic Acute 1, H400 (M=100)
	Aquatic Chronic 1, H410 (M=100)
Specific Concentration Limits and ATE	Skin Corr. 1C, H314: >=0,6 %
	Skin Irrit. 2, H315: >=0,06 %
	Eye Dam. 1, H318: >=0,6 %
	Eye Irrit. 2, H319: >=0,06 %
	Skin Sens. 1A, H317: >=0,0015 %
	ATE (oral): 64 mg/kg
	ATE (dermal): 87 mg/kg
	ATE (as inhalation, Dusts or mist): 0,17 mg/l/4h
	ATE (as inhalation, Vapours): 0,5 mg/l/4h

Aniline	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119451454-41-XXXX
Index	612-008-00-7
EINECS, ELINCS, NLP, REACH-IT List-No.	200-539-3
CAS	62-53-3
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 3, H301
	Acute Tox. 3, H311
	Acute Tox. 3, H331
	Eye Dam. 1, H318
	Skin Sens. 1, H317
	Muta. 2, H341
	Carc. 2, H351
	STOT RE 1, H372
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
Specific Concentration Limits and ATE	STOT RE 1, H372: >=1 %
	STOT RE 2, H373: >=0,2 %
	ATE (oral): 250 mg/kg
	ATE (dermal): 840 mg/kg
	ATE (as inhalation, Dusts or mist): 0,5 mg/l/4h
	ATE (as inhalation, Vapours): 3,3 mg/l/4h



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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.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

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.

Eve 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.

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



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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. Avoid 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.

Store in a well ventilated place.

Store cool.

Observe special storage conditions.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters



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Liquimate 2-Component Power Adhes	sive (B)				
	Methyl methacrylate				
WEL-TWA: 50 ppm (208 mg/m3) (W	/EL-TWA), 50	WEL-STEL:	100 ppm (416 mg	g/m3) (WEL-STEL), 100	
ppm (EU)		ppm (EU)			
Monitoring procedures:	- Co	ompur - KÍTA-1	184 S (548 618)		
	NI	OSH 2537 (Me	ethyl and ethyl met	tacrylate) - 2003 - EU pro	ject
	- BC	C/CEN/ENTR/(000/2002-16 card	109-2 (2004)	•
	- 09	SHA 94 (Methy	/l Methacrylate) - 1	1992	ļ
BMGV:		` _	• '	Other information:	
	0.0 -1: tt t	1			
	2,6-di-tert-butyl-p-cre				
WEL-TWA: 10 mg/m3		WEL-STEL:			
Monitoring procedures:		•			
BMGV:				Other information:	
Chemical Name	Aniline				
WEL-TWA: 1 ppm (4 mg/m3) (WEL-	-TWA), 2 ppm	WEL-STEL:	5 ppm (19,35 mg/	/m3) (EU)	
(7,74 mg/m3) (EU)			., , , , ,	, , ,	
Monitoring procedures:	- Dr	aeger - Aniline	e 0,5/a (67 33 171)	1	•
			5/a (CH 20 401)		
	- Co	ompur - KITA-1	181 S (548 709)		
		•	/INES, AROMÁTI	C) - 1994	
		,	,	INE, AND NITROBENZE	NE) - 1998
		,	Aniline) - 1994	•	,
BMGV: 0,2 mg/L (Aniline (after hydro				Other information: Sk	(

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 treatment plant		PNEC	10	mg/l	
	Environment - marine		PNEC	0,094	mg/l	
	Environment - sediment		PNEC	5,74	mg/kg	
	Environment - sediment, freshwater		PNEC	10,2	mg/kg	
	Environment - sediment, marine		PNEC	0,102	mg/kg	
Consumer	Human - inhalation	Short term, local effects	DNEL	208	mg/m3	
Consumer	onsumer Human - oral		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	



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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	

2,6-di-tert-butyl-p-cresol Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,199	μg/l	
	Environment - marine		PNEC	0,02	μg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1,99	µg/l	
	Environment - sediment, freshwater		PNEC	0,458	mg/kg dw	
	Environment - sediment, marine		PNEC	0,046	mg/kg dw	
	Environment - soil		PNEC	0,054	mg/kg dw	
	Environment - oral (animal feed)		PNEC	16,67	mg/kg	
	Environment - sewage treatment plant		PNEC	0,017	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,25	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,25	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,435	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,5	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1,76	mg/m3	

- United Kingdom | WEL-TWA = Workplace Exposure Limit Long-term exposure limit 8-hour TWA (= time weighted average) reference
 period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE).
- | WEL-STEL = Workplace Exposure Limit Short-term exposure limit 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU: (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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



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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:

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

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: Liquid

Colour: Amber, Yellow Odour: Characteristic

Melting point/freezing point:

There is no information available on this parameter.

Boiling point or initial boiling point and boiling range: 100,5 °C (Methyl methacrylate)

There is no information available on this parameter.

2,1 Vol-% (Methyl methacrylate) 12,5 Vol-% (Methyl methacrylate)

Flammability: Lower explosion limit: Upper explosion limit:



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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

No information available at present.

15 °C

421 °C (Methyl methacrylate)

There is no information available on this parameter.

6-8 (50 %)

There is no information available on this parameter.

Not miscible

Does not apply to mixtures.

53 hPa (20°C)

0,96

There is no information available on this parameter.

Does not apply to liquids.

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).

Liquimate 2K Power Kleber (B)						
Liquimate 2-Component Power	Adhesive (B))				
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			Vapours,
						calculated value
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			Aerosol,
						calculated value
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 -						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.

Methyl	methacry	/late
INICTITAL	metriaci y	/lat



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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
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
					Irritation/Corrosion)	
Respiratory or skin				Human being		Skin Sens. 1
sensitisation:						
Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	,
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
3 ,					Reverse Mutation Test)	
Carcinogenicity:					,	Negative
Reproductive toxicity:						Negative
Specific target organ toxicity -	NOAEL	2000	ppm	Rat		
repeated exposure (STOT-RE):			''			
Specific target organ toxicity -	NOAEL	25	ppm	Rat	OECD 453 (Combined	
repeated exposure (STOT-RE),			''		Chronic `	
inhalat.:					Toxicity/Carcinogenicity	
					Studies)	
Aspiration hazard:					,	No indications of
•						such an effect.
Symptoms:						breathing
, ,						difficulties.
						respiratory
						distress,
						drowsiness, dro
						in blood
						pressure,
						coughing,
						headaches,
						fatigue, mucous
						membrane
						irritation,
						1
						watering eyes,
						mental confusion

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	>500	mg/kg	Rat				
Acute toxicity, by oral route:	ATE	500	mg/kg					
Acute toxicity, by dermal route:	LD50	>1000	mg/kg	Rabbit				

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	Rat	OECD 402 (Acute		
					Dermal Toxicity)		
Skin corrosion/irritation:						Irritant	
Serious eye damage/irritation:						Irritant	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)	
sensitisation:					Sensitisation)		

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	64-66	mg/kg	Rat			
Acute toxicity, by oral route:	ATE	64	mg/kg				
Acute toxicity, by dermal route:	ATE	87	mg/kg				
		•	•	•	·	*	



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Acute toxicity, by dermal route:	LD50	87,12	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	0,17-0,33	mg/l/4h	Rat	OECD 403 (Acute	Aerosol
					Inhalation Toxicity)	
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Vapours
Acute toxicity, by inhalation:	ATE	0,17	mg/l/4h			Dusts or mist
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Corrosive
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit		Corrosive
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin
sensitisation:					Sensitisation)	contact)
Symptoms:						diarrhoea,
						mucous
						membrane
						irritation,
						watering eyes

Aniline						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	250	mg/kg	Rat		
Acute toxicity, by oral route:	ATE	250	mg/kg			
Acute toxicity, by dermal route:	ATE	840	mg/kg			
Acute toxicity, by dermal route:	LD50	840	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LD50	3,3	mg/l/4h	Rat		Vapours
Acute toxicity, by inhalation:	ATE	3,3	mg/l/4h			Vapours
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Dusts or mist
Serious eye damage/irritation:				Rabbit		Risk of serious
						damage to eyes
Respiratory or skin						Yes (skin
sensitisation:						contact)
Symptoms:						respiratory
						distress,
						unconsciousnes
						, annoyance,
						headaches,
						cramps,
						gastrointestinal
						disturbances,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.

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).



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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
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 daphnia:	NOEC/NOEL	21d	37	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	49	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition 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

2,6-di-tert-butyl-p-cresol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,199	mg/l		QSAR	
12.1. Toxicity to fish:	NOEC/NOEL	30d	0,053	mg/l	Oryzias latipes	OECD 210 (Fish,	
						Early-Life Stage	
						Toxicity Test)	



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12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,069	mg/l	Daphnia magna	OECD 211 (Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,48	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
40.4 Taviaituta almasi	1050	706	0.40			Test)	
12.1. Toxicity to algae:	IC50	72h	0,42	mg/l		0505 000 0	N
12.2. Persistence and			30	%		OECD 302 C	Not readily
degradability:						(Inherent	biodegradable
						Biodegradability -	
						Modified MITI	
						Test (II))	
12.3. Bioaccumulative	BCF		598				Concentration in
potential:							organisms
							possible.
12.3. Bioaccumulative potential:	Log Pow		5,03				QSAR
Toxicity to bacteria:	EC50	24h	1,7	mg/l			Tetrahymena
							pyriformis

Reaction mass of 5-chlo	ro-2-methyl-2H-i	sothiazol-	3-one and 2-	methyl-2H	l-isothiazol-3-one (3:1)		
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,22	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	NOEC/NOEL	28d	0,098	mg/l	Oncorhynchus	OECD 210 (Fish,	
					mykiss	Early-Life Stage	
						Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,004	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,1	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	48h	0,00064	mg/l	Skeletonema	OECD 201 (Alga,	
					costatum	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	EC50	72h	0,048	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and			>60	%	activated sludge	OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle Test)	
12.3. Bioaccumulative	Log Pow		0,75				Not to be
potential:							expected
12.3. Bioaccumulative	BCF		3,6				calculated value
potential:							

Aniline							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	36,2	mg/l	Oncorhynchus		
					mykiss		
12.1. Toxicity to daphnia:	EC50	48h	0,17	mg/l	Daphnia magna		
12.1. Toxicity to algae:	IC50	48h	68	mg/l	Desmodesmus		
					subspicatus		



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12.2. Persistence and degradability:		28d	93	%		OECD 301 E (Ready Biodegradability - Modified OECD	
						Screening Test)	
Toxicity to bacteria:	EC50	10min	2500	mg/l	activated sludge		

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

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.

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

2

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1133 ADHESIVES

Transport category:

14.3. Transport hazard class(es):

14.4. Packing group:

II

14.5. Environmental hazards:

Not applicable

Tunnel restriction code: D/E
Classification code: F1
LQ: 5 L

Transport by sea (IMDG-code)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1133 ADHESIVES

14.3. Transport hazard class(es):

14.4. Packing group:

II

14.5. Environmental hazards:

Mot applicable
Marine Pollutant:
EmS:

Not applicable
F-E, S-D

Transport by air (IATA)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1133 Adhesives

14.3. Transport hazard class(es):

3
14.4. Packing group:

II





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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 IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory 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)! Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! 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):

57 %

Treated goods as per Regulation (EU) No. 528/2012 must display specific information on the label.

Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012.

Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.

These are indicated in the approval of the active substance.

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

8

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.



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STOT SE 3, H335	Classification according to calculation procedure.
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.

H330 Fatal if inhaled.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eve damage.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

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 - oral Acute Tox. — Acute toxicity - dermal

Aquatic Acute — Hazardous to the aquatic environment - acute

Acute Tox. — Acute toxicity - inhalation

Skin Corr. — Skin corrosion Eye Dam. — Serious eye damage

Muta. — Germ cell mutagenicity

Carc. — Carcinogenicity

STOT RE — Specific target organ toxicity - repeated exposure

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

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

Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)



-(GB)

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AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council 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

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

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

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

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

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight

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)



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PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

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. 6/7/8/9xx-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

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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