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

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

1.1 Product identifier

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Liquimate Kraftkleber 8050 MS

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

Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

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

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

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

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard category Hazard statement Skin Sens. 1

H317-May cause an allergic skin reaction.

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





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H317-May cause an allergic skin reaction.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P261-Avoid breathing vapours or spray. P280-Wear protective gloves. P333+P313-If skin irritation or rash occurs: Get medical advice / attention. P501-Dispose of contents / container to an approved waste disposal facility.

Trimethoxyvinylsilane

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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

Trimethoxyvinylsilane	
Registration number (REACH)	
Index	014-049-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	220-449-8
CAS	2768-02-7
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226
	Acute Tox. 4, H332
	Skin Sens. 1B, H317

3-(trimethoxysilyl)propylamine	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	237-511-5
CAS	13822-56-5
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Eye Dam. 1, H318

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

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

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

Skin contact

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

Eye contact



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Remove contact lenses.

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

Ingestion

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Rinse the mouth thoroughly with water. Do not induce vomiting. 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. reddening of the skin Allergic reaction

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

CO2

Extinction powder Water jet spray Large fire: Water jet spray / alcohol resistant foam

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 Oxides of sulphur

5.3 Advice for firefighters

For personal protective equipment see Section 8. Use explosion-proof equipment. Protective respirator with independent air supply. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

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

Avoid dust formation with solid or powder products.

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

Avoid contact with eyes or skin.

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.

Prevent from entering drainage system.

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

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13. Or:

Soak up with absorbent material (e.g. sand, earth) and dispose of according to Section 13.

6.4 Reference to other sections

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



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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 contact with eyes or skin. 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.

Not to be stored in gangways or stair wells. Store product closed and only in original packing.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The methanol listed below can arise upon contact with water.

Chemical Name	Carbon black		Content %:
WEL-TWA: 3,5 mg/m3		WEL-STEL: 7 mg/m3	
Monitoring procedures:			
BMGV:		Other information:	
Chemical Name	Methanol		Content %:
WEL-TWA: 200 ppm (266 mg/m3)) (WEL), 200 ppm	WEL-STEL: 250 ppm (333 mg/m3 (WEL)	
(260 mg/m3) (EU)			
Monitoring procedures:	-	Draeger - Alcohol 25/a Methanol (81 01 631)	
	-	Compur - KITA-119 SA (549 640)	
	-	Compur - KITA-119 U (549 657)	
		DFG Meth. Nr. 6 (D) (Loesungsmittelgemische 6), DFG (E) (S	Solvent mixtures 6) - 2013,
	-	2002 - EU project BC/CEN/ENTR/000/2002-16 card 65-1 (20	04)
	-	NIOSH 2000 (METHANOL) - 1998	
	-	NIOSH 2549 (VOLATILE ÓRGANIC COMPOUNDS (SCREE	NING)) - 1996
		NIOSH 3800 ORGANIC AND INORGANIC GASES BY EXTI	RACTIVE FTIR
	-	SPECTROMETRY) - 2016	
	-	Draeger - Alcohol 100/a (CH 29 701)	
BMGV:		Other information: Sk ((WEL, EU)

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Trimethoxyvinylsilane						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,4	mg/l	Für entspreche ndes Silantriol (Hydrolyspr odukt) ermittelt.



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Environmental compartment

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Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
3-(trimethoxysilyl)propyla	amine					
		effects				
Workers / employees	Human - inhalation	effects Short term, systemic	DNEL	4,9	mg/m3	
Workers / employees	Human - dermal Human - inhalation	Long term, systemic effects Long term, systemic	DNEL	0,2 2,6	mg/kg bw/day mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	93,4	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,7	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - dermal	Short term, systemic effects	DNEL	0,1	mg/kg bw/day	
	Environment - Soli		FNEC	0,00	mg/kg dw	Fur entsprech ndes Silantriol (Hydrolys odukt) ermittelt.
	Environment - sediment, marine Environment - soil		PNEC	0,15	mg/kg dw	Für entsprech ndes Silantriol (Hydrolysį odukt) ermittelt. Für
	Environment - sediment, freshwater		PNEC	1,5	mg/kg dw	Für entsprech ndes Silantriol (Hydrolys odukt) ermittelt.
	Environment - sewage treatment plant		PNEC	6,6	mg/l	Für entsprech ndes Silantriol (Hydrolys odukt) ermittelt.
	Environment - water, sporadic (intermittent) release		PNEC	2,4	mg/l	Für entsprech ndes Silantriol (Hydrolys odukt) ermittelt.
	Environment - marine		PNEC	0,04	mg/l	Für entsprech ndes Silantriol (Hydrolys odukt) ermittelt.



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	Environment - freshwater		PNEC	0,33	mg/l
	Environment - marine		PNEC	0,033	mg/l
	Environment - water, sporadic (intermittent) release		PNEC	3,3	mg/l
	Environment - sediment, freshwater		PNEC	1,2	mg/kg dry weight
	Environment - sediment, marine		PNEC	0,12	mg/kg dry weight
	Environment - soil		PNEC	0,045	mg/kg dry weight
	Environment - sewage treatment plant		PNEC	13	mg/Ī
Consumer	Human - inhalation	Short term, systemic effects	DNEL	17,4	mg/m3
Consumer	Human - dermal	Short term, systemic effects	DNEL	5	mg/kg bw/day
Consumer	Human - inhalation	Long term, systemic effects	DNEL	17	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/day
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/day
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	17,4	mg/m3
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	8,3	mg/kg bw/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	58	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/d

Carbon black						
Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,06	mg/m3	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	154	mg/l	
	Environment - marine		PNEC	15,4	mg/l	
	Environment - sediment, freshwater		PNEC	570,4	mg/kg	
	Environment - sediment,		PNEC	57,04	mg/kg	
	marine					
	Environment - soil		PNEC	23,5	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	1540	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
Consumer	Human - inhalation	Long term, local effects	DNEL	50	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	50	mg/m3	



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Consumer	Human - dermal	Short term, systemic effects	DNEL	8	mg/kg body weight/day
Consumer	Human - inhalation	Short term, systemic effects	DNEL	50	mg/m3
Consumer	Human - oral	Short term, systemic effects	DNEL	8	mg/kg body weight/day
Consumer	Human - dermal	Long term, systemic effects	DNEL	8	mg/kg body weight/day
Consumer	Human - inhalation	Long term, systemic effects	DNEL	50	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	8	mg/kg body weight/day
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	40	mg/kg body weight/day
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	260	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	260	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	40	mg/kg body weight/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	260	mg/m3
Workers / employees	Human - inhalation	Long term, local effects	DNEL	260	mg/m3

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

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

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

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure 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: With danger of contact with eyes.



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

Skin protection - Hand protection: Protective PVC gloves (EN ISO 374). Protective PE/ EVAL/ PE gloves (EN ISO 374). Minimum layer thickness in mm: >= 0,12 Permeation time (penetration time) in minutes: > 480 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.

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

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

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

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

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

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

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Pastelike, Liquid
Colour:	Black
Odour:	Mild
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	Flammable
Lower explosion limit:	n.a.
Upper explosion limit:	n.a.
Flash point:	>100 (DIN 53213 (Pensky-Martens, closed cup))
Auto-ignition temperature:	235 °C
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	There is no information available on this parameter.
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	n.a.
Density and/or relative density:	1,47 g/cm3 (20°C, DIN 51757)
Relative vapour density:	n.a.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	Product is not explosive.
Oxidising liquids:	There is no information available on this parameter.
Evaporation rate:	n.a.
Solvents content:	0 % (Organic solvents)

SECTION 10: Stability and reactivity



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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**

None known

10.5 Incompatible materials None known

10.6 Hazardous decomposition products

See also section 5.2

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).

Coxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation:	Endpoint			Organism		
Acute toxicity, by dermal route:						n.d.a.
cute toxicity, by inhalation:						n.d.a.
	ATE	>20	mg/l/4h			calculated value, Vapours
cute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated value, Dust
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:					OECD 437 (Bovine Corneal Opacity + Permeability Test for Identif. Ocular Corros. + Severe Irritants)	Not irritant
Respiratory or skin						n.d.a.
ensitisation:						
Serm cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - ingle exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - epeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
rimethoxyvinylsilane			•	•	•	

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	7120	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	3200	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	16,8	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Acute toxicity, by inhalation:	LD50	2773	ppm/4h	Rat	OECD 403 (Acute	Aerosol
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	



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Respiratory or skin				Guinea pig	OECD 406 (Skin	Skin Sens. 1B
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative
					Erythrocyte	
					Micronucleus Test)	
Germ cell mutagenicity:				Rat	OECD 489 (In Vivo	Negative
					Mammalian Alkaline	-
					Comet Assay)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
5 1				typhimurium	Reverse Mutation Test)	-
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 422 (Combined	Negative
					Repeated Dose Tox.	J
					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
Reproductive toxicity	NOAEL	>= 75	mg/kg	Rabbit	OECD 414 (Prenatal	Negative
(Developmental toxicity):	_	_	5.5		Developmental Toxicity	- J
(Study)	
Specific target organ toxicity -	LOAEL	0.58	mg/l	Rat	OECD 413 (Subchronic	Vapours
repeated exposure (STOT-RE),		-,			Inhalation Toxicity - 90-	
inhalat.:					Day Study)	
Symptoms:						drowsiness,
						dizziness.
						nausea,
						abdominal pain,
						breathing
						difficulties, visua
						disturbances
Specific target organ toxicity -	NOAEL	62,5	mg/kg	Rat	OECD 422 (Combined	Target organ(s):
repeated exposure (STOT-RE),		,-,-			Repeated Dose Tox.	bladder
oral:					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
	1		11	1		1
3-(trimethoxysilyl)propylamine						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>10000	mg/kg	Rabbit	OECD 402 (Acute	

					Toxicity)	
Acute toxicity, by dermal route:	LD50	>10000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Dam. 1
					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)	Analogous
						conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative,
					Erythrocyte	Analogous
					Micronucleus Test)	conclusion
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro	Negative,
					Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion



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Reproductive toxicity:	NOAEL	200	mg/kg	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	200	200 mg/kg Rat OECD 408 (Repea			Target organ(s): liver, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	LOAEL	600	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Target organ(s): liver, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	147	mg/m3	Rat	OECD 412 (Subacute Inhalation Toxicity - 28- Day Study)	Aerosol

Carbon black	Carbon black										
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes					
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat							
Acute toxicity, by dermal route:	LD50	>3000	mg/kg								
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant					
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant					
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising					
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative					
Carcinogenicity:				Mouse		Negative					
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEL	0,0011	mg/l			References, Target organ(s): lung90d					
Aspiration hazard:						No					
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	137	mg/kg	Mouse							
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	52	mg/kg	Rat							

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	300	mg/kg	Human being		Experiences on
			0.0	U U		persons.
Acute toxicity, by dermal route:	LD50	17100	mg/kg	Rabbit		Does not
						conform with EU
						classification.
Acute toxicity, by inhalation:	LC50	85	mg/l/4h	Rat		Not relevant for
						classification.,
						Vapours
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:				Mouse	OECD 474 (Mammalian	Negative
					Erythrocyte	
					Micronucleus Test)	
Carcinogenicity:				Mouse	OECD 453 (Combined	Negative
					Chronic	
					Toxicity/Carcinogenicity	
					Studies)	



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Reproductive toxicity:	NOAEL	1,3	mg/l	Mouse	OECD 416 (Two- generation Reproduction Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	0,13	mg/l	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	
Symptoms:						abdominal pain, vomiting, headaches, gastrointestinal disturbances, drowsiness, visual disturbances, watering eyes, nausea, mental confusion, intoxication, dizziness

11.2. Information on other hazards

Liquimate Kraftkleber 8050 MS										
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 Kraftkleber 80	Liquimate Kraftkleber 8050 MS												
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.						

Trimethoxyvinylsilane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	191	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	



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12.1. Toxicity to daphnia:	EC50	48h	169	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	28	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	25	mg/l	Selenastrum capricornutum	,	
12.2. Persistence and degradability:	BOD	28d	51	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable
12.2. Persistence and degradability:		28d	51	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
Toxicity to bacteria:	EC50	3h	>2500	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
12.5. Results of PBT and vPvB assessment						2	No PBT substance, No vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>934	mg/l	Brachydanio rerio	OECD 203 (Fish,	Analogous
						Acute Toxicity	conclusion
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	331	mg/l	Daphnia magna	OECD 202	Analogous
						(Daphnia sp.	conclusion
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	>1000	mg/l	Desmodesmus	OECD 201 (Alga,	Analogous
					subspicatus	Growth Inhibition	conclusion
						Test)	
12.2. Persistence and		28d	67	%		Regulation (EC)	Not readily
degradability:						440/2008 C.4-A	biodegradable,
						(DETERMINATIO	Analogous
						N OF 'READY'	conclusion
						BIODEGRADABILI	
						TY - DOC DIE-	
						AWAY TEST)	NI-
12.3. Bioaccumulative ootential:							No
12.4. Mobility in soil:							Slight
2.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substanc
Toxicity to bacteria:	EC50		3400	mg/l	activated sludge		
Toxicity to bacteria:	EC10		13	mg/l	Pseudomonas		References,
-				-	putida		Analogous
							conclusion5,75



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	Toxicity to bacteria:	EC50	43	mg/l	Pseudomonas	Analogous
					putida	conclusion5,75 h
1						

Carbon black							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Water solubility:							Insoluble,
							Product floats or
							the water
							surface.
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Brachydanio rerio	OECD 203 (Fish,	
						Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	24h	>5600	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	3d	10000	mg/l	Scenedesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
						Test)	
12.2. Persistence and							Not
degradability:							biodegradable
12.3. Bioaccumulative							Not to be
potential:							expected
Toxicity to bacteria:	EC0	3h	>=800	mg/l	activated sludge	Regulation (EC)	
						440/2008 C.22	
						(SOIL	
						MICROORGANIS	
						MS - CARBON	
						TRANSFORMATI	
						ON TEST)	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.1. Toxicity to fish:	LC50	96h	15400	mg/l	Lepomis		EPA-660/3-75-
					macrochirus		009
12.1. Toxicity to daphnia:	EC50	96h	18260	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	96h	22000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	99	%		OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle Test)	
12.3. Bioaccumulative	BCF		28400		Chlorella vulgaris		Not to be
potential:							expected
Toxicity to bacteria:	IC50	3h	>1000	mg/l	activated sludge	OECD 209	
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	
Other information:	Log Pow		-0,77				
Other information:	DOC		<70	%			
Other information:	BOD		>60	%			



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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.

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.

SECTION 14: Transport information

14.1. UN number or ID number:	n.a.
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Classification code:	n.a.
LQ:	n.a.
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	
Transport by sea (IMDG-code)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Marine Pollutant:	n.a
14.5. Environmental hazards:	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
• •	rt must be followed
Unless specified otherwise, general measures for safe transpo	

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

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.



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15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

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1-16

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
Skin Sens. 1, H317	Classification according to calculation procedure.

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

H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H315 Causes skin irritation. H318 Causes serious eye damage. H332 Harmful if inhaled.

Skin Sens. — Skin sensitization Flam. Liq. — Flammable liquid Acute Tox. — Acute toxicity - inhalation Skin Irrit. — Skin irritation Eye Dam. — Serious eye damage

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.

ECHA Homepage - Information about chem

GESTIS Substance Database (Germany).

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

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

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

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

Any abbreviations and acronyms used in this document:

according, according to acc., acc. to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) Acute Toxicity Estimate ATE Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BSEF The International Bromine Council bw body weight



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тос Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds very persistent and very bioaccumulative vPvB wwt wet weight

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

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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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