

Page 1 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

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

Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (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)

Hazard class

SECTION 2: Hazards identification

Hazard statement

2.1 Classification of the substance or mixture

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

Acute Tox.	4	H332-Harmful if inhaled.
Eye Irrit.	2	H319-Causes serious eye ir

ritation. 3 STOT SE H335-May cause respiratory irritation. Skin Sens. 1 H317-May cause an allergic skin reaction.

2.2 Label elements

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



Page 2 of 37

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

Revision date / version: 25.06.2024 / 0020 Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)



H332-Harmful if inhaled. H319-Causes serious eye irritation. H335-May cause respiratory irritation. 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. P264-Wash hands thoroughly after handling. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves / protective clothing / eye protection.

P302+P352-IF ON SKIN: Wash with plenty of 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. P312-Call a POISON CENTRE / doctor if you feel unwell. P405-Store locked up. P420-Store separately.

EUH204-Contains isocyanates. May produce an allergic reaction.

Calcium oxide

Polyisocyanate, aliphatic

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

OLE MIXEU CO	
Polyisocyanate, aliphatic	
Registration number (REACH)	01-2119485796-17-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	931-274-8
CAS	28182-81-2
content %	75-90
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H332
	Skin Sens. 1, H317
	STOT SE 3, H335
Specific Concentration Limits and ATE	ATE (as inhalation, Aerosol): 1,5 mg/l/4h
	ATE (as inhalation, Vapours): 11 mg/l/4h

Calcium oxide	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475325-36-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	215-138-9
CAS	1305-78-8
content %	1-<3



Page 3 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315 Eye Dam. 1, H318
	STOT SE 3, H335

Titanium dioxide (in powder form containing 1 % or more of particles	
with aerodynamic diameter <= 10 μm)	
Registration number (REACH)	01-2119489379-17-XXXX
Index	022-006-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	236-675-5
CAS	13463-67-7
content %	0,1-<0,3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Carc. 2, H351 (as inhalation)

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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

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

Skin contact

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

Eye contact

Remove contact lenses.

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

Ingestion

Rinse the mouth thoroughly with water.

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.

coughing eyes, reddened

watering eyes

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

Adapt to the nature and extent of fire.

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:



(B)

Page 4 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

Toxic gases Oxides of carbon Oxides of nitrogen

Hydrocyanic acid (hydrogen cyanide)

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.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Keep unprotected persons away.

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, sawdust) 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.

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.

Store at room temperature.

Store in a dry place.

7.3 Specific end use(s)



(B)-

Page 5 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

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).

Observe special requirements for isocyanates, also within the framework of the risk assessment and definition of protective measures.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Polyisocyanate, ali	phatic			
WEL-TWA: 0,02 mg/m3 (Isocyana			0,07 mg/m3 (Isoc	yanates, all (as -NCO))
Monitoring procedures:			,	,	
BMGV: 1 µmol isocyanate-derived	diamine/mol creatini	ne in urine (At t	he end of the	Other information:	Sen (Isocyanates, all)
period of exposure)					
© Chemical Name	Calcium oxide				
WEL-TWA: 1 mg/m3 (9) (WEL-TW	A, EU)	WEL-STEL:	4 mg/m3 (9) (WEI	L-STEL, EU)	
Monitoring procedures:	-		• , , ,	•	
BMGV:				Other information:	
(B)	Titanium diavida (ir	nowdor form o	entaining 1 % or m	nore of particles with	
Chemical Name	aerodynamic diame		ontaining 1 70 of 11	iore or particles with	
WEL-TWA: 10 mg/m3 (total inhala		WEL-STEL:			
(respirable dust)	bio adoty, i mg/mo	***************************************			
Monitoring procedures:	-	- <u>-</u>			
BMGV:				Other information:	
© Chemical Name	Talc				
WEL-TWA: 1 mg/m3 (res. dust)	Tall	WEL-STEL:			
Monitoring procedures:		WEL-SIEL.			
BMGV:	-			Other information:	
DIVIGV				Other information.	
© Chemical Name	Silicon dioxide				
WEL-TWA: 6 mg/m3 (total inh. dus	st), 2,4 mg/m3	WEL-STEL:			
(resp. dust)					
Monitoring procedures:					
BMGV:				Other information:	
Chemical Name	Silicon dioxide - an	norphous			
WEL-TWA: 6 mg/m3 (total inh. dus	st), 2,4 mg/m3	WEL-STEL:			
(resp. dust)					
Monitoring procedures:					
BMGV:				Other information:	

Polyisocyanate, aliphatic						
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,127	mg/l	
	Environment - marine		PNEC	0,0127	mg/l	
	Environment - water, sporadic (intermittent)		PNEC	1,27	mg/l	
	release					
	Environment - sediment,		PNEC	266700	mg/kg dry	
	freshwater				weight	
	Environment - sediment,		PNEC	26670	mg/kg dry	
	marine				weight	
	Environment - sewage		PNEC	38,3	mg/l	
	treatment plant					
	Environment - soil		PNEC	53182	mg/kg dry weight	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,5	mg/m3	



Page 6 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

Workers / employees	Human - inhalation	Short term, local	DNEL	1	mg/m3	
		effects			_	

Calcium oxide						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,37	mg/l	
	Environment - marine		PNEC	0,24	mg/l	
	Environment - soil		PNEC	817,4	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	2,27	mg/l	
Consumer	Human - inhalation	Short term, local effects	DNEL	4	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	4	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
• •	Environmental Environmental		•			
	compartment					
	Environment - freshwater		PNEC	0,184	mg/l	
	Environment - marine		PNEC	0,0184	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,193	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, freshwater		PNEC	1000	mg/kg dw	
	Environment - sediment, marine		PNEC	100	mg/kg dw	
	Environment - soil		PNEC	100	mg/kg dw	
	Environment - oral (animal feed)		PNEC	1667	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	

Silicon dioxide - amorphous						
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
Workers / employees	Human - inhalation	Long term, systemic	DNEL	4	mg/m3	
		effects				

⁻ 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:

(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).

^{(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



Page 7 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

| 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 or 2019/1831/EU:

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

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).

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Protective PVC gloves (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

Protective hand cream recommended.

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:

If OES or MEL is exceeded.

Gas mask filter ABEK-P2 (EN 14387), code colour brown, grey, yellow, green, white

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.



Page 8 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

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: Paste, liquid. Colour: Paste, liquid. White

Odour: Characteristic

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: Combustible.

Lower explosion limit:

Upper explosion limit:

There is no information available on this parameter.

Auto-ignition temperature:

There is no information available on this parameter.

Auto-ignition temperature:

Decomposition temperature:

There is no information available on this parameter.

Kinematic viscosity: 55 Pas (Dynamic viscosity)

Solubility: There is no information available on this parameter.

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

Does not apply to mixtures.

Vapour pressure: There is no information available on this parameter.

Density and/or relative density: 1,21 (relative density)

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

Particle characteristics: Does not apply to liquids.

9.2 Other information

Explosives: Product is not explosive.

Oxidising 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

See also section 7.

None known

10.5 Incompatible materials

See also section 7.

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

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).

Liquimate 7700 Mini Kartusche (A)								
Liquimate 7700 Mini cartridge ((A)							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		



Page 9 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Acute toxicity, by oral route:				n.d.a.
Acute toxicity, by dermal route:				n.d.a.
Acute toxicity, by inhalation:	ATE	12,32	mg/l/4h	calculated value,
				Vapours
Acute toxicity, by inhalation:	ATE	1,68	mg/l/4h	calculated value,
				Aerosol
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.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2500	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	Female
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	1,5	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Mist
Acute toxicity, by inhalation:	ATE	1,5	mg/l/4h		7/	Aerosol
Acute toxicity, by inhalation:	ATE	11	mg/l/4h			Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Slightly irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Slightly irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Reproductive toxicity:					,	Negative
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Irritation of the respiratory tract
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOEL	4,3	mg/m3	Rat	OECD 412 (Subacute Inhalation Toxicity - 28- Day Study)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	3,3	mg/m3	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study)	Aerosol

	Calcium oxide						
	Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
i [Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 425 (Acute Oral	
						Toxicity - Up-and-Down	
						Procedure)	



Page 10 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Acute toxicity, by dermal route:	LD50	>2500	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Calcium dihydroxide, The
					Domai Toxiolty)	results are
						applicable to
						calcium oxide, sinde in contact
						with moisture
						calcium
						hydroxide is
						formed.
Skin corrosion/irritation:					OECD 431 (In Vitro Skin	Non-caustic,
					Corrosion - Human Skin	Analogous
					Model Test)	conclusion,
					,	Calcium
						dihydroxide
Skin corrosion/irritation:				Rabbit		Irritant, in vivo
Serious eye damage/irritation:				Rabbit		Risk of serious
						damage to
						eyes., in vivo
Respiratory or skin						Not to be
sensitisation:						expected
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative,
					Reverse Mutation Test)	Analogous
						conclusion,
						Calcium
Corm cell mutagenicity:					OECD 473 (In Vitro	dihydroxide
Germ cell mutagenicity:					Mammalian	Negative, Analogous
					Chromosome	conclusion,
					Aberration Test)	Calcium
					Abenation rest)	dihydroxide
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative,
					Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion,
					, i	Calcium
						dihydroxide
Carcinogenicity:				Rat		Analogous
						conclusion,
						Negative,
						administered as
D 1 0 0 1 1						Ca-lactate
Reproductive toxicity:				Mouse		Analogous
						conclusion,
						Negative, administered as
						Ca-carbonate
Specific target organ toxicity -						Irritation of the
single exposure (STOT-SE):						respiratory tract
Specific target organ toxicity -		36	mg/kg			(UL by SCF)
repeated exposure (STOT-RE),			bw/d			\===, ==, ,
oral:						
Specific target organ toxicity -						Negative
repeated exposure (STOT-RE),						
dermal:						
Aspiration hazard:						No



Page 11 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Symptoms:		breathing difficulties, respiratory distress, drowsiness, diarrhoea, thirst, vomiting, cornea opacity, coughing, headaches, mucous

Titanium dioxide (in powder for						NI=1==
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	,	
Acute toxicity, by inhalation:	LC50	>6,8	mg/l/4h	Rat		
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, Mechanical irritation possible
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizising
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	No indications of such an effect.
Specific target organ toxicity - single exposure (STOT-SE):					,	Not irritant (respiratory tract
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	3500	mg/kg/d	Rat		(90d)
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	10	mg/m3	Rat		(90d)



Page 12 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Symptoms:		mucous
		membrane
		irritation,
		coughing,
		respiratory
		distress, drying
		of the skin.

Talc						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Skin corrosion/irritation:						Not irritant
Respiratory or skin sensitisation:						Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:				Rabbit	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Symptoms:						mucous membrane irritation

Silicon dioxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal 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)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Aspiration hazard:						No

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
• • •					Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	IUCLID Chem. Data	
					Sheet (ESIS)	
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)	
Respiratory or skin				Guinea pig	IUCLID Chem. Data	Not sensitizising
sensitisation:					Sheet (ESIS)	
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Negative
				typhimurium		
Carcinogenicity:						Negative
Reproductive toxicity:	NOAEL	>497	mg/kg			No indications of
			bw/d			such an effect.
Specific target organ toxicity -	NOAEL	0,035	mg/l			Negative
repeated exposure (STOT-RE),						
inhalat.:						



Page 13 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019 Valid from: 25.06.2024

PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

11.2. Information on other hazards

Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (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 7700 Mini Kar	Liquimate 7700 Mini Kartusche (A)						
Liquimate 7700 Mini cart	ridge (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.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC10	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	ErC50	72h	>1000	mg/l	Scenedesmus subspicatus	DIN 38412 T.9	
12.1. Toxicity to algae:	IC50	72h	>100	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	0	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Not readily biodegradable



Page 14 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

12.2. Persistence and degradability:		28d	1	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF		367,7				
12.3. Bioaccumulative potential:	Log Kow		3,2				Concentration in organisms possible., calculated value
12.4. Mobility in soil:	H (Henry)		<0,0000 01	Pa*m3/m ol			25°C
12.4. Mobility in soil:	Log Koc		7,3-7,8				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	72h	3828	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Calcium oxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	50,6	mg/l			freshwater,
							Calcium
							dihydroxide, The
							results are
							applicable to
							calcium oxide,
							sinde in contact
							with moisture
							calcium
							hydroxide is
				-			formed.
12.1. Toxicity to fish:	LC50	96h	457	mg/l			marine water,
							Calcium
							dihydroxide, The
							results are
							applicable to
							calcium oxide,
							sinde in contact
							with moisture calcium
							hydroxide is
							formed.
							ioiiiieu.



Page 15 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

12.1. Toxicity to daphnia:	EC50	48h	49,1	mg/l		freshwater,
						Calcium
						dihydroxide, The
						results are
						applicable to
						calcium oxide,
						sinde in contact
						with moisture
						calcium
						hydroxide is
40.4 Tardakata danbaha	1.050	001-	450			formed.
12.1. Toxicity to daphnia:	LC50	96h	158	mg/l		marine water,
						Calcium
						dihydroxide, The
						results are
						applicable to
						calcium oxide,
						sinde in contact
						with moisture
						calcium
						hydroxide is
40.4 Taribitata danbaia	NOTO/NOT	44-1	00			formed.
12.1. Toxicity to daphnia:	NOEC/NOEL	14d	32	mg/l		marine water,
						Calcium
						dihydroxide, The
						results are
						applicable to
						calcium oxide,
						sinde in contact
						with moisture
						calcium
						hydroxide is
10.1 T 1.11 1	11050/11051		10			formed.
12.1. Toxicity to algae:	NOEC/NOEL	72h	48	mg/l		freshwater,
						Calcium
						dihydroxide, Th
						results are
						applicable to
						calcium oxide,
						sinde in contact
						with moisture
						calcium
						hydroxide is
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		formed.
12.1. Toxicity to algae:	EC50	72h	184,57	mg/l		freshwater,
						Calcium
						dihydroxide, The
						results are
						applicable to
						calcium oxide,
						sinde in contact
						with moisture
						calcium
						hydroxide is
						formed.
12.2. Persistence and						Not relevant for
degradability:						inorganic
						substances.
12.3. Bioaccumulative						Not relevant for
potential:						inorganic
	1	1	1	1	1	substances.



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Page 16 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019 Valid from: 25.06.2024

PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

Liquimate 7700 Mini carti	nage (71)			
12.4. Mobility in soil:				Calcium oxide reacts with water and/or carbon dioxide to form respectively calcium dihydroxide and/or calcium carbonate, which
				are sparingly, and so present a low mobility in most ground.
12.5. Results of PBT and vPvB assessment				Not relevant for inorganic substances.
12.6. Endocrine disrupting properties:				Not to be expected
12.7. Other adverse effects: Toxicity to bacteria:				pH-value of > 12 will rapidly decrease as result of dilution and carbonation., Even though this product can be used to neutralise over- acidified water, when 1g/l is exceeded organisms in the water may be affected adversely. In high concentrations the product provokes an increase in
				temperature and of the pH-value. It is used to sanitise sewage sludge
Other organisms:	NOEC/NOEL	2000	mg/kg dw	Calcium dihydroxide, The results are applicable to calcium oxide, sinde in contact with moisture calcium hydroxide is formed. soil macroorganisms



Page 17 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

NOEC/NOEL		12000	mg/kg dw	Calcium
				dihydroxide, The
				results are
				applicable to
				calcium oxide,
				sinde in contact
				with moisture
				calcium
				hydroxide is
				formed.
				soil
1105041051		1000		microorganisms
NOEC/NOEL	21d	1080	mg/kg	Calcium
				dihydroxide, The
				results are
				applicable to
				calcium oxide,
				sinde in contact
				with moisture
				calcium
				hydroxide is
				formed.
				terrestrial plants
	NOEC/NOEL			

Titanium dioxide (in pow	der form contain	ning 1 % o	r more of pa	rticles with	aerodynamic diamete	er <= 10 µm)	
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirchneriell a subcapitata	U.S. EPA-600/9- 78-018	
12.2. Persistence and degradability:					·		Not relevant for inorganic substances.
12.3. Bioaccumulative potential:	BCF	42d	9,6				Not to be expected
12.3. Bioaccumulative potential:	BCF	14d	19-352				Oncorhynchus mykiss
12.4. Mobility in soil:							Negative
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:			>5000	mg/l	Escherichia coli		
Toxicity to bacteria:	LC0	24h	>10000	mg/l	Pseudomonas fluorescens		
Toxicity to annelids:	NOEC/NOEL		>1000	mg/kg	Eisenia foetida		
Water solubility:							Insoluble20°C

Talc							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	100	g/l	Brachydanio rerio		
12.2. Persistence and degradability:							Not relevant for inorganic
12.5. Results of PBT and vPvB assessment							substances. No PBT substance, No vPvB substance
Water solubility:			<0,1	%			



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Page 18 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and							Inorganic
degradability:							products canno
							be eliminated
							from water
							through
							biological
							purification
							methods.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	30d	34223	mg/l	Daphnia magna	,	
12.1. Toxicity to algae:	EC50	72h	>10000	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	IC50	72h	440	mg/l	Pseudokirchneriell a subcapitata	IUCLID Chem. Data Sheet (ESIS)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	60	mg/l	Pseudokirchneriell a subcapitata	IUCLID Chem. Data Sheet (ESIS)	
12.2. Persistence and degradability:							Not relevant fo inorganic substances.

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 10 waste adhesives and sealants other than those mentioned in 08 04 09

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.

Recommendation:

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

General statements



Page 19 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableTunnel restriction code:Not applicableClassification code:Not applicableLQ:Not applicableTransport category:Not applicable

Transport by sea (IMDG-code)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS:Not applicable

Transport by air (IATA)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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 trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

0 %

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

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)	



Page 20 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

Acute Tox. 4, H332	Classification according to calculation procedure.
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
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.

H351 Suspected of causing cancer by inhalation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Acute Tox. — Acute toxicity - inhalation

Eye Irrit. — Eye irritation
STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
Skin Sens. — Skin sensitization

Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage

Carc. — Carcinogenicity

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

Article number Art., Art. no.

ASTM ASTM International (American Society for Testing and Materials)

Acute Toxicity Estimate ATF

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)

Bioconcentration factor BCF

BSEF The International Bromine Council

CAS Chemical Abstracts Service

Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CLP and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

for example (abbreviation of Latin 'exempli gratia'), for instance e.g.

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

European Community

ECHA European Chemicals Agency



Page 21 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

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)

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



GB)

Page 22 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

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

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Page 23 of 37

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

Revision date / version: 25.06.2024 / 0020

Replacing version dated / version: 04.03.2024 / 0019

Valid from: 25.06.2024 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (A) Liquimate 7700 Mini cartridge (A)

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

Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (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

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

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:

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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

Eye Irrit. 2 H319-Causes serious eye irritation.

2.2 Label elements

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



Page 24 of 37

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

Revision date / version: 23.03.2023 / 0023 Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)



H319-Causes serious eye irritation.

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

P280-Wear eye protection / face protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313-If eye irritation persists: Get medical advice / attention.

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**

1,1',1"',1"'-ethylenedinitrilotetrapropan-2-ol	
Registration number (REACH)	01-2119552434-41-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	203-041-4
CAS	102-60-3
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Irrit. 2, H319

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

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

Skin contact



Page 25 of 37

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

Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)

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

Eye contact

Remove contact lenses.

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

Ingestion

Rinse the mouth thoroughly with water.

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.

eyes, reddened watering eyes

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 / alcohol resistant 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

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.

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Keep unprotected persons away.

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, sawdust) and dispose of according to Section 13.

6.4 Reference to other sections



Unit

Note

Value

Descriptor

(GB)

Page 26 of 37

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

Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)

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 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.

Store at room temperature.

Store in a dry place.

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

1,1',1"',1"'-ethylenedinitrilotetrapropan-2-ol

Exposure route /

Environmental compartment

Area of application

Chemical Name	Talc				
WEL-TWA: 1 mg/m3 (res. dust)		WEL-STEL:			
Monitoring procedures:		- -			
BMGV:				Other information:	
Chemical Name	Carbon black				
WEL-TWA: 3,5 mg/m3	Carbon black	WEL-STEL:	7 mg/m3		
Monitoring procedures:					
BMGV:				Other information:	
Chemical Name	Silicon dioxide				
		WEL OTEL			
WEL-TWA: 6 mg/m3 (total inh. dus	t), 2,4 mg/m3	WEL-STEL:			
(resp. dust)					
Monitoring procedures:					
BMGV:				Other information:	
Chemical Name	Silicon dioxide - am	norphous			
WEL-TWA: 6 mg/m3 (total inh. dus		WEL-STEL:			
(resp. dust)	7, , 3				
Monitoring procedures:		-			
BMGV:				Other information:	
·					

Effect on health



Page 27 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

	Environment - freshwater		PNEC	0,085	mg/l
	Environment - marine		PNEC	0,0085	mg/l
	Environment - water, sporadic (intermittent) release		PNEC	1,51	mg/l
	Environment - sewage treatment plant		PNEC	70	mg/l
	Environment - sediment, freshwater		PNEC	0,193	mg/kg dw
	Environment - sediment, marine		PNEC	0,0193	mg/kg dw
	Environment - soil		PNEC	0,018	mg/kg dw
Consumer	Human - inhalation	Long term, systemic effects	DNEL	8,7	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg bw/d
Consumer	Human - oral	Long term, systemic effects	DNEL	2,5	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	29,4	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	4,2	mg/kg bw/d

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

Zeolites						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	3,2	mg/l	
	Environment - marine		PNEC	0,32	mg/l	
	Environment - soil		PNEC	600	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	95	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,25	mg/kg body weight/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,25	mg/kg body weight/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg body weight/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	3	mg/m3	

Silicon dioxide - amorphous						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note



(B)

Page 28 of 37

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

Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)

Workers / employees Human - inhalation	Long term, systemic effects	DNEL	4	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 or 2019/1831/EU:

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

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective gloves in butyl rubber (EN ISO 374).

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Protective PVC gloves (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

Protective hand cream recommended.

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:



Page 29 of 37

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

Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)

Normally not necessary.

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

9.1 Information on basic physical and chemical properties

Physical state: Paste, liquid.

Colour: Black Odour: Characteristic

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: There is no information available on this parameter.

Lower explosion limit: There is no information available on this parameter. Upper explosion limit: There is no information available on this parameter.

Flash point: There is no information available on this parameter.

Auto-ignition temperature: There is no information available on this parameter.

Decomposition temperature: There is no information available on this parameter.

There is no information available on this parameter.

Kinematic viscosity: 60 Pas (Dynamic viscosity)

Solubility: There is no information available on this parameter.

Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

There is no information available on this parameter. Vapour pressure:

Density and/or relative density: 1,29 (relative density) There is no information available on this parameter. Relative vapour density:

Particle characteristics: Does not apply to liquids.

9.2 Other information

Explosives: Product is not explosive.

Oxidising 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

See also section 7.

None known

10.5 Incompatible materials

See also section 7.

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.



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Page 30 of 37

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

Revision date / version: 23.03.2023 / 0023 Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)

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).

Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B) Endpoint Toxicity / effect Value Unit Organism Test method Notes Acute toxicity, by oral route: n.d.a. Acute toxicity, by dermal route: n.d.a. Acute toxicity, by inhalation: n.d.a. Skin corrosion/irritation: n.d.a. Serious eye damage/irritation: n.d.a. Respiratory or skin n.d.a. sensitisation: Germ cell mutagenicity: n.d.a. Carcinogenicity: n.d.a. Reproductive toxicity: n.d.a. Specific target organ toxicity 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.

1,1',1"',1"'-ethylenedinitrilotetra	apropan-2-ol					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000-5000	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:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Reproductive toxicity:					OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	Negative
Reproductive toxicity:					OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	Negative

Talc						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Skin corrosion/irritation:						Not irritant
Respiratory or skin sensitisation:						Not sensitizising



Page 31 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

Germ cell mutagenicity:			OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:				Negative
Reproductive toxicity:		Rabbit	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Symptoms:				mucous membrane irritation

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	Not irritant
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Carcinogenicity:				Mouse		Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEL	0,0011	mg/l			References, Target organ(s): lung(90d)
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		
Aspiration hazard:						No

Silicon dioxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal 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)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Aspiration hazard:						No

Silicon dioxide - amorphous		1		1	T =	T
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	IUCLID Chem. Data	
					Sheet (ESIS)	
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)	
Respiratory or skin				Guinea pig	IUCLID Chem. Data	Not sensitizising
sensitisation:					Sheet (ESIS)	
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Negative
				typhimurium		



Page 32 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)

Carcinogenicity:					Negative
Reproductive toxicity:	NOAEL	>497	mg/kg		No indications of
			bw/d		such an effect.
Specific target organ toxicity -	NOAEL	0,035	mg/l		Negative
repeated exposure (STOT-RE),					
inhalat.:					

11.2. Information on other hazards

Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (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).

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	48h	>100	mg/l	Leuciscus idus	DIN 38412 T.15	Analogous
							conclusion
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	92/69/EC	Analogous
							conclusion
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>=10	mg/l	Daphnia magna	OECD 211	Analogous
						(Daphnia magna	conclusion
						Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus	84/449/EEC C.3	Analogous
					subspicatus		conclusion
12.2. Persistence and	BOD	28d	9	%		OECD 301 E	Hardly
degradability:						(Ready	biodegradable
,						Biodegradability -	· ·
						Modified OECD	
						Screening Test)	



Page 33 of 37

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

12.3. Bioaccumulative potential:	Log Pow		-2,08			
Toxicity to bacteria:	EC20	30min	1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))
Toxicity to bacteria:	NOEC/NOEL	3h	700	mg/l	activated sludge	ISO 8192
Other information:	COD		2040	mg/g		

Talc								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:	LC50	96h	100	g/l	Brachydanio rerio			
12.2. Persistence and					-		Not relevant for	
degradability:							inorganic	
-							substances.	
12.5. Results of PBT							No PBT	
and vPvB assessment							substance, No	
							vPvB substance	
Water solubility:			<0,1	%				

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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 subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Not biodegradable
12.3. Bioaccumulative potential:							Not to be expected
Toxicity to bacteria:	EC0	3h	>=800	mg/l	activated sludge	Regulation (EC) 440/2008 C.22 (SOIL MICROORGANIS MS - CARBON TRANSFORMATI ON TEST)	
Water solubility:							Insoluble, Product floats on the water surface.

Silicon dioxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water
							through biological purification methods.



Page 34 of 37

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

Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)

12.5. Results of PBT				No PBT
and vPvB assessment				substance, No
				vPvB substance

Silicon dioxide - amorphous								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish,		
						Acute Toxicity		
						Test)		
12.1. Toxicity to daphnia:	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202		
,						(Daphnia sp.		
						Acute		
						Immobilisation		
						Test)		
12.1. Toxicity to daphnia:	NOEC/NOEL	30d	34223	mg/l	Daphnia magna			
12.1. Toxicity to algae:	EC50	72h	>10000	mg/l	Desmodesmus	OECD 201 (Alga,		
					subspicatus	Growth Inhibition		
						Test)		
12.1. Toxicity to algae:	IC50	72h	440	mg/l	Pseudokirchneriell	IUCLID Chem.		
					a subcapitata	Data Sheet (ESIS)		
12.1. Toxicity to algae:	NOEC/NOEL	72h	60	mg/l	Pseudokirchneriell	IUCLID Chem.		
					a subcapitata	Data Sheet (ESIS)		
12.2. Persistence and							Not relevant for	
degradability:							inorganic	
							substances.	

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

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableTunnel restriction code:Not applicableClassification code:Not applicableLQ:Not applicable



Page 35 of 37

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

Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)

Transport category:

Transport by sea (IMDG-code)

14.1. UN number or ID number:

14.2. UN proper shipping name:

Not applicable

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

14.5. Environmental hazards: Marine Pollutant:

EmS:

Not applicable

Not applicable

Not applicable

Not applicable Not applicable

Not applicable

Not applicable

Transport by air (IATA)

14.1. UN number or ID number:

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):14.4. Packing group:14.5. Environmental hazards:

Not applicable

Not applicable

Not applicable
Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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 trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

< 0,3 %

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, 3, 4, 7, 8, 9, 10, 11, 12, 15, 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	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Eye Irrit. 2, H319	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. H319 Causes serious eye irritation.

Eye Irrit. — Eye irritation

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).



Page 36 of 37

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

Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)

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

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



Page 37 of 37

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

Revision date / version: 23.03.2023 / 0023

Replacing version dated / version: 28.02.2022 / 0022

Valid from: 23.03.2023 PDF print date: 25.06.2024 Liquimate 7700 Mini Kartusche (B) Liquimate 7700 Mini cartridge (B)

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 wet weight mg/kg wwt

n.a. not applicable n.av. not available not checked n.c. 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

PΕ Polyethylene

PNEC Predicted No Effect Concentration

parts per million ppm Polyvinylchloride **PVC**

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

Volatile organic compounds VOC

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: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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