

Page 1 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502

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

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

1.1 Product identifier

Liquifast 1502

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

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

B

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

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland) **Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementResp. Sens.1H334-May cause allergybroathing difficultion if ind

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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



Page 2 of 19

œ

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502



Danger

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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. P284-Wear respiratory protection.

P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311-If experiencing respiratory symptoms: Call a POISON CENTER / doctor.

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

EUH204-Contains isocyanates. May produce an allergic reaction.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

As from 24 August 2023 adequate training is required before industrial or professional use.

4,4'-methylenediphenyl diisocyanate

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

4,4'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119457014-47-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	202-966-0
CAS	101-68-8
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H332
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Skin Sens. 1, H317
	Resp. Sens. 1, H334
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
-	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %



Page 3 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502

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

ആ

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

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Wash thoroughly with soap and water - consult doctor if necessary.

Remove contaminated clothing immediately.

Eve contact

Remove contact lenses.

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

Indestion

Rinse the mouth thoroughly with water.

Consult doctor immediately - keep Data Sheet available.

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.

The following may occur:

In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.

Irritation of the respiratory tract

Allergic contact eczema

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

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

Water jet spray CO2

Extinction powder Unsuitable extinguishing media n.c.

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. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures



Page 4 of 19

œ

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502

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.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

6.3 Methods and material for containment and cleaning up

Pick up mechanically 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. No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders. 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.

Only store at temperatures from > 0° C to < 35° C.

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). 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	4,4'-methylenediph	enyl diisocyana	ite		
WEL-TWA: 0,02 mg/m3 (Isocyanat	es, all (as -NCO))	WEL-STEL:	0,07 mg/m3 (Isocyanates, a	all (as -NCO))	
(WEL-TWA), 10 µg/m3 (until 31.12.2	2028), 6 µg/m3	(WEL-STEL)			
(from 01.01.2029) (measured as NC	O, diisocyanates)				
(EU)					



EC) No 1907/2006, A						
21 / 0017	Annex II (last amended by	Regulation (E	U) 2020/87	8)		
 2-(1-met MDHS 2 2-(1-met or into in EU proje NIOSH 5 NIOSH 5 NIOSH 4 OSHA 4 	thoxyphenylpiperazine an 5/4 (Organic isocyanates thoxyphenylpiperazine co- npingers and analysis usin ect BC/CEN/ENTR/000/20 5521 (ISOCYANATES, M 5522 (ISOCYANATES) - 1 5525 (ISOCYANATES, TO 8 (Diisocyanates 2,4-TDI 7 (Methylene Bisphenyl Is	d liquid chroma in air – Labora ated glass fibre ng high perforr 102-16 card 7-4 ONOMERIC) - 1998 DTAL (MAP)) - and MDI) - 198 cocyanate (MD	atography) atory metho e filters follo nance liqui (2004) 1994 2003 30 30 1)) - 1984	- 2007 ad using samplin owed by solvent d chromatograp	g either onto desorption hy) - 2015 -	
e/mol creatinine in u	rine (At the end of the			· ·	, all) (WEL)	
nonyl phthalate						
	STEL:					
		Other inform	nation:	_		
	STEL: 7 mg/m2					
		Other inform	nation:	-		
um carbonate		·				
	STEL:					
		Other inform	nation:			
		Description	Malua	11	Nete	
ental	Effect on health	Descriptor	value	Unit	Note	
		DNEC	1			
			,	<u> </u>		
lant				J		
nt - water,		PNEC	10	mg/l		
ntermittent)						
ermal	Short term, systemic effects	DNEL	25	mg/kg bw/d		
halation	Short term, systemic effects	DNEL	0,05	mg/m3		
al	Short term, systemic effects	DNEL	20	mg/kg bw/d		
ermal	Short term, local effects	DNEL	17,2	mg/cm2		
Consumer Human - inhalation Short term, local DNEL 0,05 m						
	effects					
halation	effects Long term, systemic effects	DNEL	0,025	mg/m3		
halation	effects Long term, systemic effects Long term, local effects	DNEL	0,025	mg/m3 mg/m3		
halation halation ermal	effects Long term, systemic effects Long term, local effects Short term, systemic effects	DNEL DNEL DNEL	0,025 0,025 50	mg/m3 mg/m3 mg/kg bw/d		
halation halation ermal halation	effects Long term, systemic effects Long term, local effects Short term, systemic effects Short term, systemic effects	DNEL DNEL DNEL DNEL	0,025 0,025 50 0,1	mg/m3 mg/m3 mg/kg bw/d mg/m3		
halation halation ermal	effects Long term, systemic effects Long term, local effects Short term, systemic effects Short term, systemic	DNEL DNEL DNEL	0,025 0,025 50	mg/m3 mg/m3 mg/kg bw/d		
	- 2-(1-met MDHS 2 2-(1-met or into in - EU proje - NIOSH 5 - NIOSH 5 - NIOSH 5 - OSHA 4 e/mol creatinine in un nonyl phthalate WEL- um carbonate mg/m3 WEL- wental ent nt - freshwater nt - freshwater nt - sewage lant nt - sewage lant t - sewage t - sewag		- 2-(1-methoxyphenylpiperazine and liquid chroma MDHS 25/4 (Organic isocyanates in air – Labora 2-(1-methoxyphenylpiperazine coated glass fibre or into impingers and analysis using high perforr - EU project BC/CEN/ENTR/000/2002-16 card 7 NIOSH 5521 (ISOCYANATES, MONOMERIC) - NIOSH 5522 (ISOCYANATES) - 1998 - NIOSH 5525 (ISOCYANATES), TOTAL (MAP)) - - OSHA 18 (Diisocyanates 2,4-TDI and MDI) - 194 - OSHA 18 (Diisocyanates 2,4-TDI and MDI) - 194 - OSHA 47 (Methylene Bisphenyl Isocyanate (MD e/mol creatinine in urine (At the end of the Other inforr / (13), (15) honyl phthalate WEL-STEL: 	- 2-(1-methoxyphenylpiperazine and liquid chromatography) MDHS 25/4 (Organic isocyanates in air – Laboratory metho 2-(1-methoxyphenylpiperazine coated glass fibre filters follo or into impingers and analysis using high performance liqui - EU project BC/CEN/ENTR/000/2002-16 card 7-4 (2004) - NIOSH 5521 (ISOCYANATES, MONOMERIC) - 1994 - NIOSH 5522 (ISOCYANATES, TOTAL (MAP)) - 2003 - OSHA 18 (Diisocyanates 2,4-TDI and MDI) - 1980 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 e/mol creatinine in urine (At the end of the WEL-STEL: 	- NIOSH 5521 (ISOCYANATES, MONOMERIC) - 1994 - NIOSH 5522 (ISOCYANATES) - 1998 - NIOSH 5525 (ISOCYANATES) - TOTAL (MAP)) - 2003 - OSHA 18 (Diisocyanates 2,4-TDI and MDI) - 1980 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 e/mol creatinine in urine (At the end of the Other information: Sen (Isocyanates) (EU) tonyl phthalate WEL-STEL: 	



Page 6 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502

Workers / employees	Human - inhalation	Long term, systemic	DNEL	0,05	mg/m3	
		effects				
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	

Diisononyl phthalate

ആ

Area of application	Exposure route / Environmental compartment	Environmental		Value	Unit	Note
	Environment - soil		PNEC	30	mg/kg	
	Environment - oral (animal feed)		PNEC	150	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	15,3	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	220	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	4,4	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	366	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	51,72	mg/m3	

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

Calcium carbonate									
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note			
	Environment - sewage treatment plant		PNEC	100	mg/l				
Consumer	Human - oral	Long term, systemic effects	DNEL	6,1	mg/kg bw/day				
Consumer	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3				
Consumer	Human - inhalation	Long term, local effects	DNEL	1,06	mg/m3				
Consumer	Human - oral	Short term, systemic effects	DNEL	6,1	mg/kg bw/day				
Workers / employees	Human - inhalation	Long term, local effects	DNEL	4,26	mg/m3				
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	10	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:

(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). |



Page 7 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

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

8.2 Exposure controls 8.2.1 Appropriate engineering controls

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

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.

ആ

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection: With danger of contact with eyes. Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Rubber gloves (EN ISO 374). If applicable Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,4 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: Normally not necessary. If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, 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. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.



Page 8 of 19

œ

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502

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.

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

9.2 Other information

Explosives: Oxidising liquids: Solvents content:

Black Characteristic There is no information available on this parameter. 270 °C Combustible. 0,4 Vol-% 2.9 Vol-% >100 °C >300 °C There is no information available on this parameter. Mixture is non-soluble (in water). There is no information available on this parameter. Not miscible Does not apply to mixtures. 0 hPa (20°C) 1.21 a/cm3 (20°C) There is no information available on this parameter. Does not apply to liquids.

Product is not explosive. No 0 %

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. None known 10.6 Hazardous decomposition products See also section 5.2 No decomposition when used as directed.

SECTION 11: Toxicological information

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

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

Toxicity / effect	Endpoint	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.



	No 1907/2006	Annex II (last a	amended by Regu	ulation (EU) 2020/878)	
24 / 0018	_				
1: 01.11.2021	/ 0017				
					n.d.a.
					n.d.a.
					n.d.a.
					n.d.a.
					n.d.a.
anato					
	Value	Unit	Organism	Test method	Notes
LD50	>10000	mg/kg	Rat	OECD 401 (Acute Oral	
LD50	>2000	ma/ka	Rat		
				440/2008 B.1 (ACUTE	
LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute	
				Dermal Toxicity)	
LC50	>2,24	mg/l/4h	Rat		Aerosol
LC50	0,368	mg/l/4h	Rat		Does not
				Inhalation Toxicity)	conform with E
			Dobbit		classification.
			Rabbit		Irritant, Analogous
					conclusion
			Rabbit		Irritant,
				Irritation/Corrosion)	Analogous
				,	conclusion
			Mouse	OECD 429 (Skin	Yes (skin
					contact),
				Lymph Node Assay)	Analogous
					conclusion
			Guinea pig		Yes (inhalation)
			Det	OFCD 474 (Mammalian	Negotivo
			rai		Negative
	1				Negative,
				Reverse Mutation Test)	Analogous
					conclusion
				OECD 453 (Combined	Analogous
					conclusion,
					Limited evidence
				Studies)	of a carcinogen
	4	ma/m3	Rat	OFCD 414 (Prenatal	effect. Negative,
NOALL	-	ing/ins	INAL		Analogous
					conclusion
	1				Irritation of the
					respiratory trac
					Irritation of the
					respiratory tract
					Target organ(s)
					respiratory
	24 / 0018 1: 01.11.2021 anate Endpoint LD50 LD50	24 / 0018 1: 01.11.2021 / 0017 anate Endpoint Value LD50 >10000 LD50 >2000 LD50 >2000 LC50 >2,24 LC50 0,368	24 / 0018 :: 01.11.2021 / 0017	24 / 0018 24 / 0017 201.11.2021 / 0017 Image: State of the s	: 01.11.2021 / 0017



@						
Page 10 of 19 Safety data sheet according to R Revision date / version: 26.11.20 Replacing version dated / version	24 / 0018		, Annex II (last a	amended by Regu	ulation (EU) 2020/878)	
Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502						
2	Т	1	I			T • .
Symptoms:						respiratory distress, coughing, mucous membrane
						irritation
Diisononyl phthalate Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>10000	mg/kg	Rat	OECD 401 (Acute Oral	NOLES
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>3160	mg/kg	Rabbit	Limit Toot	Aaraaal
Acute toxicity, by inhalation: Skin corrosion/irritation:	LC50	>4,4	mg/l/4h	Rat Rabbit	Limit-Test OECD 404 (Acute	Aerosol Not irritant
Skin conosion/initiation.				Rabbit	Dermal	Not imiant
Serious eye damage/irritation:				Rabbit	Irritation/Corrosion) OECD 405 (Acute Eye	Not irritant
Respiratory or skin				Guinea pig	Irritation/Corrosion) Regulation (EC)	No (skin contact)
sensitisation:				Guinea pig	440/2008 B.6 (SKIN SENSITISATION)	NO (SKIT COTIACI)
Germ cell mutagenicity:					(Ames-Test)	Negative
Symptoms:						diarrhoea.
-)						nausea and vomiting.
						g.
Carbon black						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route: Acute toxicity, by dermal route:	LD50 LD50	>2000 >3000	mg/kg mg/kg	Rat		
Skin corrosion/irritation:	LD30	>3000		Rabbit	OECD 404 (Acute Dermal	Not irritant
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:				Mouse		Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEL	0,0011	mg/l			References, Target organ(s):
0		407				lung(90d)
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	137	mg/kg	Mouse		
Specific target organ toxicity - repeated exposure (STOT-RE),	NOAEL	52	mg/kg	Rat		
oral: Aspiration hazard:						No
Aspiration nazaro:						INO
Calcium carbonate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	Procedure) OECD 402 (Acute	
Acute toxicity, by inhalation:	LC50	>3	mg/l/4h	Rat	Dermal Toxicity) OECD 403 (Acute	
Skin corrosion/irritation:				Rabbit	Inhalation Toxicity) OECD 404 (Acute Dermal	Not irritant
					Irritation/Corrosion)	



Page 11 of 19 Safety data sheet according to Re	egulation (EC) No 1907/200	6 Annex II (last	amended by Re	aculation (EU) 2020/878)	
Revision date / version: 26.11.20		1907/2000		amended by Re		
Replacing version dated / version		/ 0017				
Valid from: 26.11.2024		,				
PDF print date: 26.11.2024						
Liquifast 1502						
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
, ,					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin contact)
sensitisation:					Sensitisation - Local	· · · · ·
					Lymph Node Assay)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
0,					Reverse Mutation Test)	Ū
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	•
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	-
					Mutation Test)	
Carcinogenicity:						No indications of
						such an effect.
Reproductive toxicity:	NOEL	1000	mg/kg	Rat	OECD 422 (Combined	
			bw/d		Repeated Dose Tox.	
					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
Specific target organ toxicity -						No indications of
single exposure (STOT-SE):				_		such an effect.
Specific target organ toxicity -						No indications of
repeated exposure (STOT-RE):	-			_		such an effect.
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rat	OECD 422 (Combined	
repeated exposure (STOT-RE),			bw/d		Repeated Dose Tox.	
oral:					Study with the	
					Reproduction/Developm.	
0					Tox. Screening Test)	
Specific target organ toxicity -	NOAEC	0,212	mg/l	Rat	OECD 413 (Subchronic	
repeated exposure (STOT-RE),					Inhalation Toxicity - 90-	
inhalat.:					Day Study)	
Aspiration hazard:						No

11.2. Information on other hazards

(GB)

Liquifast 1502						
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). Liquifast 1502 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: 12.2. Persistence and n.d.a. n.d.a. degradability: 12.3. Bioaccumulative n.d.a. potential: 12.4. Mobility in soil: n.d.a. 12.5. Results of PBT n.d.a. and vPvB assessment



	5.11.2024 / 0018 version: 01.11.2021 / 0017	
Valid from: 26.11.2024		
PDF print date: 26.11.20	4	
Liquifast 1502		
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.
Other information:	DOC	DOC-eliminatio
		degree(comple
		ng organic
		substance)>=
		80%/28d: n.a.
Other information:		According to the
		recipe, contains
		no AOX.

г®-

4'-methylenediphenyl diisocyanate								
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 fish:	LC0	96h	>1000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion	
12.1. Toxicity to daphnia:	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion	
12.1. Toxicity to algae:	EC50	72h	1,5	mg/l		OECD 201 (Alga, Growth Inhibition Test)		
12.1. Toxicity to algae:	EC50	72h	1640	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion	
12.1. Toxicity to algae:	NOEC/NOEL	72h	1640	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion	
12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradability - Modified MITI Test (II))	With water at th interface, transforms slowly with formation of CO2 into a firm, insoluble reaction produc with a high melting point (polycarbamide According to experience available to date polycarbamide i inert and non- degradable.	



Revision date / version: 2 Replacing version dated Valid from: 26.11.2024 PDF print date: 26.11.202 Liquifast 1502	/ version: 01.11.		,				
12.2. Persistence and degradability:	BOD	28d	0	%		OECD 302 C (Inherent Biodegradability - Modified MITI Test (II))	With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarbamide). According to experience available to date polycarbamide is inert and non- degradable.
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	A notable biological accumulation potential has to be expected (LogPow > 3).
12.3. Bioaccumulative potential:	Log Pow		4,51- 5,22			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	A notable biological accumulation potential has to be expected (LogPow > 3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other information:							Does not contair any organically bound halogens which can contribute to the AOX value in waste water.
Toxicity to annelids:	EC50	14d	>= 1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	

Diisononyl phthalate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>102	mg/l	Brachydanio rerio	92/69/EC	
12.1. Toxicity to daphnia:	EC50	48h	>=74	mg/l	Daphnia magna	84/449/EEC C.2	



Page 14 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502

12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>=100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	88	mg/l	Scenedesmus subspicatus	,	
12.1. Toxicity to algae:	EC50	72h	>88	mg/l	Scenedesmus subspicatus	84/449/EEC C.3	
12.2. Persistence and degradability:		28d	81	%	activated sludge	Regulation (EC) 440/2008 C.4-C (DETERMINATIO N OF 'READY' BIODEGRADABILI TY - CO2 EVOLUTION TEST)	Readily biodegradable
12.2. Persistence and degradability:		28d	80-90	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Kow		8,8-9,7			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	Analogous conclusion
12.3. Bioaccumulative potential:	BCF	14d	<3				Analogous conclusion
12.4. Mobility in soil:	Koc		>5000				
12.4. Mobility in soil:	H (Henry)		0,00000 149	atm*m3/m ol			
Toxicity to bacteria:	EC50	30min	>83,9	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/NOEL	56d	>982,4	mg/kg	Eisenia foetida	//	
Other organisms:	LC50	14d	>7372	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	

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	OECD 201 (Alga,	
					subspicatus	Growth Inhibition Test)	
12.2. Persistence and							Not
degradability:							biodegradable
12.3. Bioaccumulative							Not to be
potential:							expected



B Page 15 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502

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.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h			Oncorhynchus	OECD 203 (Fish,	No observation
,					mykiss	Acute Toxicity	with saturated
						Test)	solution of test
						,	material.
12.1. Toxicity to daphnia:	EC50	48h			Daphnia magna	OECD 202	No observation
	2000	1011			Bapinia magna	(Daphnia sp.	with saturated
						Acute	solution of test
						Immobilisation	material.
						Test)	material.
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesmus	OECD 201 (Alga,	
12.1. TOxicity to algae.	L030	1211	>14	iiig/i	subspicatus	Growth Inhibition	
					subspicatus	Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	14		Desmodesmus	OECD 201 (Alga,	
	NOEC/NOEL	120	14	mg/l		Growth Inhibition	
					subspicatus		
12.2. Derejetanaa and						Test)	
12.2. Persistence and							Not relevant for
degradability:							inorganic
							substances.
12.3. Bioaccumulative							Not to be
potential:							expected
12.4. Mobility in soil:							n.a.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substanc
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209	
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	
Toxicity to bacteria:	NOEC/NOEL	3h	1000	mg/l	activated sludge	OECD 209	
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208	Glycine max
-						(Terrestrial Plants,	-
						Growth Test)	
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208	Lycopersicon
-						(Terrestrial Plants,	esculentum
						Growth Test)	
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208	Avena sativa
0				0.01		(Terrestrial Plants,	
						Growth Test)	
Other organisms:	NOEC/NOEL	21d	1000	mg/kg dw		OECD 208	Glycine max
						(Terrestrial Plants,	2.,
						Growth Test)	



Page 16 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017

Valid from: 26.11.2024 PDF print date: 26.11.2024

Liquifast 1502

ആ

Other organisms:	NOEC/NOEL	21d	1000	mg/kg dw		OECD 208	Lycopersicon
						(Terrestrial Plants,	esculentum
						Growth Test)	
Other organisms:	NOEC/NOEL	21d	1000	mg/kg dw		OECD 208	Avena sativa
						(Terrestrial Plants,	
-						Growth Test)	
Other organisms:	EC50	14d	>1000	mg/kg dw	Eisenia foetida	OECD 207	
						(Earthworm,	
						Acute Toxicity	
						Tests)	
Other organisms:	NOEC/NOEL	14d	1000	mg/kg dw	Eisenia foetida	OECD 207	
						(Earthworm,	
						Acute Toxicity	
						Tests)	
Other organisms:	EC50	28d	>1000	mg/kg dw		OECD 216 (Soil	
						Microorganisms -	
						Nitrogen	
						Transformation	
						Test)	
Other organisms:	NOEC/NOEL	28d	1000	mg/kg dw		OECD 216 (Soil	
						Microorganisms -	
						Nitrogen	
						Transformation	
						Test)	
Water solubility:			0,0166	g/l		OECD 105 (Water	20°C
						Solubility)	

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 20 01 27 paint, inks, adhesives and resins containing 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:
14.2. UN proper shipping name: Not applicable
14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Environmental hazards: Tunnel restriction code:
Classification code: Not applicable

Not applicable Not applicable Not applicable Not applicable Not applicable



Page 17 of 19

അ

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502

LQ:	Not applicable	
Transport 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 applicable	
14.4. Packing group:	Not applicable	
14.5. Environmental hazards:	Not applicable	
Marine Pollutant:	Not applicable	
EmS:	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 applicable	
14.4. Packing group:	Not applicable	
14.5. Environmental hazards:	Not applicable	
14.6. Special precautions for user		
Unless specified otherwise, general measures for safe tr	ransport must be followed.	
14.7. Maritime transport in bulk accord	ling to IMO instruments	
Non-dangerous material according to Transport Regulat	•	

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

4,4'-methylenediphenyl diisocyanate

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

Comply with trade association/occupational health regulations.

Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Directive 2010/75/EU (VOC):

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

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

8

0%

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

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

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Resp. Sens. 1, H334	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. H315 Causes skin irritation. H317 May cause an allergic skin reaction.



Page 18 of 19

ആ

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502

H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

Resp. Sens. — Respiratory sensitization Acute Tox. — Acute toxicity - inhalation Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation Skin Sens. — Skin sensitization Carc. — Carcinogenicity STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation STOT RE — Specific target organ toxicity - repeated exposure

Key literature references and sources for data:

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

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

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

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as 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 Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR 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 DMFL 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 EC 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 European Inventory of Existing Commercial Chemical Substances EINECS ELINCS European List of Notified Chemical Substances ΕN **European Norms** United States Environmental Protection Agency (United States of America) FPA $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera



Page 19 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.11.2024 / 0018 Replacing version dated / version: 01.11.2021 / 0017 Valid from: 26.11.2024 PDF print date: 26.11.2024 Liquifast 1502 EU **European Union** EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general aen. GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc octanol-water partition coefficient Kow International Agency for Research on Cancer IARC IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. 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) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Log Kow, Log Pow Logarithm of octanol-water partition coefficient Limited Quantities LQ 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 not available n.av. not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NI P No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development organic org. OSHA Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic PBT PΕ Polyethylene PNEC Predicted No Effect Concentration parts per million ppm 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 Telephone Tel. TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.

ആ