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

Revision date / version: 20.11.2024 / 0021

Replacing version dated / version: 12.03.2024 / 0020

Valid from: 20.11.2024 PDF print date: 20.11.2024 LM 49 Fliesspaste

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

LM 49 Fliesspaste

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

Lubricant

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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

Fax: (+49) 0731-1420-88

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

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

Telephone number of the company in case of emergencies:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements

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

EUH208-Contains Di-iso-octyl amino methyl tolutriazole. May produce an allergic reaction. EUH210-Safety data sheet available on request.

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 %).



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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**

Onlain on the arida	Out of any of a subject on Ellissis and Emit and a subject of
Calcium fluoride	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119491248-30-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	232-188-7
CAS	7789-75-5
content %	0,3-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	

Di-iso-octyl amino methyl tolutriazole	
Registration number (REACH)	01-2119982395-25-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	939-700-4
CAS	
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Skin Sens. 1B, H317
	Aquatic Acute 1, H400 (M=1)
	Aguatic Chronic 2. H411

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

Not required.

Skin contact

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

Eve contact

Remove contact lenses.

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

Ingestion

Rinse the mouth thoroughly with water.

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

4.2 Most important symptoms and effects, both acute and delayed

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

With long-term contact:

Product removes fat.

Drying of the skin.

Dermatitis (skin inflammation)



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Allergic reaction

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

CO₂

Dry extinguisher

Foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

Toxic gases

Hot product gives off combustible vapours.

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

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

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

Do not carry cleaning cloths soaked in product in trouser pockets.

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) 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



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7.1.1 General recommendations

Ensure good ventilation.

Do not heat to temperatures close to flash point.

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

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Solvent resistant floor

Do not store with oxidizing agents.

Store in a well ventilated place.

Protect from direct sunlight and warming.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Calcium fluoride			
WEL-TWA: 2,5 mg/m3 (fluoride (in	organic,as F)	WEL-STEL:		
(WEL-TWA, EU)				
Monitoring procedures:		DFG (D) (Fluorwasserstoff und F	luoride), DFG (E) (Hydroge	nfluoride and fluorides) -
		2005		
		NIOSH 7902 (Fluorides, aerosol	5 7	
		NIOSH 7906 (PARTICULATE FL	UORIDES and HYDROFLU	JORIC ACID by Ion
		Chromatography) - 2014		
		OSHA ID-110 (Fluoride (F and		res) - 1991 - EU project
	-	BC/CEN/ENTR/000/2002-16 car		
BMGV:			Other information:	
Chemical Name	Silicon dioxide			
WEL-TWA: 6 mg/m3 (total inh. dus	st), 2,4 mg/m3	WEL-STEL:		
(resp. dust)	,, , 0			
Monitoring procedures:				
BMGV:			Other information:	
Chemical Name	0 1.7			
	(-iranhite			
	Graphite	WFI-STFI:		
WEL-TWA: 10 mg/m3 (total inh. du		WEL-STEL:		
		WEL-STEL:		
WEL-TWA: 10 mg/m3 (total inh. du dust)			Other information:	
WEL-TWA: 10 mg/m3 (total inh. du dust) Monitoring procedures: BMGV:	ust), 4 mg/m3 (res.		Other information:	
WEL-TWA: 10 mg/m3 (total inh. du dust) Monitoring procedures: BMGV: Chemical Name	ust), 4 mg/m3 (res. Tungsten disulphi	ide		
WEL-TWA: 10 mg/m3 (total inh. du dust) Monitoring procedures: BMGV: BMGV: Chemical Name WEL-TWA: 5 mg/m3 (insoluble con	ust), 4 mg/m3 (res. Tungsten disulphi			
WEL-TWA: 10 mg/m3 (total inh. du dust) Monitoring procedures: BMGV: Chemical Name	ust), 4 mg/m3 (res. Tungsten disulphi	ide		
WEL-TWA: 10 mg/m3 (total inh. du dust) Monitoring procedures: BMGV: Chemical Name WEL-TWA: 5 mg/m3 (insoluble conduction of the con	ust), 4 mg/m3 (res. Tungsten disulphi mpounds as W)	ide	oluble compounds as W)	
WEL-TWA: 10 mg/m3 (total inh. du dust) Monitoring procedures: BMGV: BMGV: Chemical Name WEL-TWA: 5 mg/m3 (insoluble conduction of the conduction o	Tungsten disulphi mpounds as W) Oil mist, mineral	ide WEL-STEL: 10 mg/m3 (insc	oluble compounds as W)	
WEL-TWA: 10 mg/m3 (total inh. du dust) Monitoring procedures: BMGV: BMGV: Chemical Name WEL-TWA: 5 mg/m3 (insoluble con Monitoring procedures: BMGV: BMGV: Chemical Name WEL-TWA: 5 mg/m3 (Mineral oil, 6)	Tungsten disulphi mpounds as W) Oil mist, mineral	ide	oluble compounds as W)	
WEL-TWA: 10 mg/m3 (total inh. du dust) Monitoring procedures: BMGV: BMGV: Chemical Name WEL-TWA: 5 mg/m3 (insoluble conduction of the conduction o	Tungsten disulphi mpounds as W) Oil mist, mineral excluding metal	ide WEL-STEL: 10 mg/m3 (insc	oluble compounds as W) Other information:	
WEL-TWA: 10 mg/m3 (total inh. du dust) Monitoring procedures: BMGV: BMGV: Chemical Name WEL-TWA: 5 mg/m3 (insoluble con Monitoring procedures: BMGV: BMGV: Chemical Name WEL-TWA: 5 mg/m3 (Mineral oil, 6 working fluids, ACGIH)	Tungsten disulphi mpounds as W) Oil mist, mineral excluding metal	ide WEL-STEL: 10 mg/m3 (insc	oluble compounds as W) Other information:	
WEL-TWA: 10 mg/m3 (total inh. du dust) Monitoring procedures: BMGV: BMGV: Chemical Name WEL-TWA: 5 mg/m3 (insoluble con Monitoring procedures: BMGV: BMGV: Chemical Name WEL-TWA: 5 mg/m3 (Mineral oil, 6 working fluids, ACGIH) Monitoring procedures:	Tungsten disulphi mpounds as W) Oil mist, mineral excluding metal	ide WEL-STEL: 10 mg/m3 (insc	Other information:	



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Calcium fluoride						
Area of application	Exposure route / Environmental compartment	ental		Value	Unit	Note
	Environment - freshwater		PNEC	0,37	mg/l	
	Environment - soil Environment - sewage treatment plant		PNEC PNEC	21,8 104,75	mg/kg mg/l	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,02	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5	mg/m3	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,00097 6	mg/l	
	Environment - marine		PNEC	0,00009 8	mg/l	
	Environment - sporadic (intermittent) release		PNEC	0,00976	mg/l	
	Environment - sewage treatment plant		PNEC	0,69	mg/l	
	Environment - sediment, freshwater		PNEC	0,0121	mg/kg	
	Environment - sediment,		PNEC	0,00121	mg/kg	
	Environment - soil		PNEC	0,00184	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,2	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,2	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,3	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1,3	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,4	mg/kg bw/day	

Silicon dioxide										
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note				
	Environmental									
	compartment									
	Environment - oral (animal		PNEC	60000	mg/kg feed					
	feed)									
Workers / employees	Human - inhalation	Long term, local effects	DNEL	4	mg/m3					

Zinc sulphide						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	20,6	μg/l	
	Environment - marine Environment - sediment,		PNEC PNEC	6,1 117,8	μg/l mg/kg dry	
	freshwater Environment - sediment,		PNEC	56,5	weight mg/kg dry	
	marine				weight	



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	Environment - soil		PNEC	35,5	mg/kg dry weight
	Environment - sewage treatment plant		PNEC	100	µg/l
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,5	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	83	mg/kg bw/day
Consumer	Human - oral	Long term, systemic effects	DNEL	0,83	mg/kg bw/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	83	mg/kg bw/day

- United Kingdom | WEL-TWA = Workplace Exposure Limit Long-term exposure limit 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE).
- | WEL-STEL = Workplace Exposure Limit Short-term exposure limit 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU: (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

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 (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:

Protective gloves, oil resistant (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



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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.

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

>200 °C Flash point:

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

Mixture is non-soluble (in water). pH:

Kinematic viscosity: There is no information available on this parameter. Solubility: Insoluble

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: 1,2 g/ml (20°C)

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

Particle characteristics: Does not apply to liquids.

9.2 Other information

Explosives: There is no information available on this parameter. 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



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No dangerous reactions are known. **10.4 Conditions to avoid**

Open flame, ignition sources

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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

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

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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.			
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.			

Calcium fluoride						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4250	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>5	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
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin contact)
sensitisation:					Sensitisation - Local	
					Lymph Node Assay)	
Symptoms:						ataxia, respiratory distress, drop in blood pressure, diarrhoea, thirst, headaches,
						muscle weakness, nausea and vomiting.

Di-iso-octyl amino methyl tolutriazole									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	3313	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	(Draize-Test)	Skin Irrit. 2			
Serious eye damage/irritation:				Rabbit	(Draize-Test)	Not irritant			



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Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	_
					Mutation Test)	
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	
Reproductive toxicity:				Rat	OECD 422 (Combined	Negative, oral
					Repeated Dose Tox.	_
					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
Specific target organ toxicity -	NOAEL	45	mg/kg	Rat	OECD 422 (Combined	
repeated exposure (STOT-RE),			bw/d		Repeated Dose Tox.	
oral:					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	

Silicon dioxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Analogous
					Toxicity)	conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		References
Acute toxicity, by inhalation:	LC50	>0,139	mg/l/4h	Rat		References,
						Maximum
						achievable
						concentration.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit		Not irritant,
						Mechanical
						irritation
						possible.,
						References
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Carcinogenicity:						No indications of
						such an effect.
Reproductive toxicity						No indications of
(Developmental toxicity):						such an effect.
Symptoms:						eyes, reddened

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by inhalation:	NOAEC	>2000	mg/m3/4h	Rat	OECD 412 (Subacute Inhalation Toxicity - 28- Day Study)	
Acute toxicity, by inhalation:	LC50	>2000	mg/m3/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizising



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Germ cell mutagenicity:				Salmonella typhimurium	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Reproductive toxicity:	NOAEL	813	mg/kg	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Symptoms:						breathing difficulties

Tungsten disulphide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>5,25	mg/l/4h	Rat		Dust

11.2. Information on other hazards

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Endocrine disrupting properties:						Does not apply		
						to mixtures.		
Other information:						No other		
						relevant		
						information		
						available on		
						adverse effects		
						on health.		

SECTION 12: Ecological information

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

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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	-						n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							Isolate as much
degradability:							as possible with
- 							an oil separator.
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.
Other information:							According to the
							recipe, contains
							no AOX.

Calcium fluoride							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50		660	mg/l	Leuciscus idus		

Di-iso-octyl amino meth	yl tolutriazole						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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12.1 Toyicity to fich:	LCEO	OCh	1.2	m a/l	Drochydonia raria	OECD 202 (Figh	
12.1. Toxicity to fish:	LC50	96h	1,3	mg/l	Brachydanio rerio	OECD 203 (Fish,	
						Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	2,05	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	EC10	21d	0,451	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	0,976	mg/l	Desmodesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,658	mg/l	Desmodesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
					·	Test)	
12.2. Persistence and		28d	7-11	%	activated sludge	OECD 301 B	Not readily
degradability:						(Ready	biodegradableCO
						Biodegradability -	2 formation of
						Co2 Evolution	the theoretical
						Test)	value
12.5. Results of PBT						,	No PBT
and vPvB assessment							substance, No
							vPvB substance

Silicon dioxide								
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	>10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)		
12.1. Toxicity to algae:	EL50	72h	>10000	mg/l		OECD 201 (Alga, Growth Inhibition Test)		
12.2. Persistence and degradability:						,	Abiotically degradable.	
12.3. Bioaccumulative potential:							Not to be expected	
12.4. Mobility in soil:							Not to be expected	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance	

Graphite							
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:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	IC50	72h	100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	



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12.2. Persistence and degradability:	Inorganic products cannot
aog.adasy.	be eliminated
	from water
	through
	biological
	purification
	methods.
Water solubility:	Insoluble

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. 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)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

E.g. suitable incineration plant.

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 applicable 14.4. Packing group: Not applicable 14.5. Environmental hazards: Not applicable Tunnel restriction code: Not applicable Classification code: Not applicable IO: 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 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 Not applicable 14.4. Packing group:



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14.5. 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 maternity protection (national implementation of the Directive 92/85/EEC)! General hygiene measures for the handling of chemicals are applicable.

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:

8

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

Not applicable

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

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation

Skin Sens. — Skin sensitization

Aquatic Acute — Hazardous to the aquatic environment - acute

Aquatic Chronic — Hazardous to the aquatic environment - chronic

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.

ECHÁ 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



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approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

Acute Toxicity Estimate ATE

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 Dissolved organic carbon DOC

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

FN European Norms

United States Environmental Protection Agency (United States of America) **FPA**

Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) ErCx, E μ Cx, ErLx (x = 10, 50)

et cetera etc. European Union EU

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

octanol-water partition coefficient Kow

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

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

not applicable n.a. 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

org. organic

OSHA Occupational Safety and Health Administration (USA)

persistent, bioaccumulative and toxic PBT

PΕ Polyethylene



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PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

These statements were made by:

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