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

Revision date / version: 22.11.2022 / 0004

Replacing version dated / version: 01.11.2021 / 0003

Valid from: 22.11.2022 PDF print date: 22.11.2022

Maehroboter Reinigungs- und Pflegespray

# 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

# Maehroboter Reinigungs- und Pflegespray

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

Cleaner

# 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) 0731-142

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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# Telephone number of the company in case of emergencies:

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

### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

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

Hazard class Hazard category Hazard statement

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

# 2.2 Label elements

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





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H317-May cause an allergic skin reaction.

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

P261-Avoid breathing vapours or spray. P280-Wear protective gloves.

P333+P313-If skin irritation or rash occurs: Get medical advice / attention.

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

1,2-benzisothiazol-3(2H)-one 2-methylisothiazol-3(2H)-one

# 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

Propan-2-ol	
Registration number (REACH)	01-2119457558-25-XXXX
Index	603-117-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	200-661-7
CAS	67-63-0
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225
	Eye Irrit. 2, H319
	STOT SE 3, H336

1,2-benzisothiazol-3(2H)-one	
Registration number (REACH)	
Index	613-088-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	220-120-9
CAS	2634-33-5
content %	0,005-<0,05
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Skin Sens. 1, H317
	Aquatic Acute 1, H400 (M=10)
Specific Concentration Limits and ATE	Skin Sens. 1, H317: >=0,05 %

2-methylisothiazol-3(2H)-one	
Registration number (REACH)	01-2120764690-50-XXXX
Index	613-326-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	220-239-6
CAS	2682-20-4
content %	0,0015-<0,025



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Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH071
	Acute Tox. 2, H330
	Acute Tox. 3, H301
	Acute Tox. 3, H311
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 1, H410 (M=1)
Specific Concentration Limits and ATE	Skin Sens. 1A, H317: >=0,0015 %

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.

# **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

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult 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.

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

None known

### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

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



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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.

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.

### 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. Flush residue using copious water.

# 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.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Protect from direct sunlight and warming.

Protect from frost.

# 7.3 Specific end use(s)

No information available at present.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Chemical Name	Propan-2-ol	
WEL-TWA: 400 ppm (999 mg/m3)	WEL-STEL: 500 ppm (1250 mg/m3)	
Monitoring procedures:	- Draeger - Alcohol 25/a i-Propanol (81 01 63	31)
	<ul> <li>Compur - KITA-122 SA(C) (549 277)</li> </ul>	



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Compur - KITA-150 U (550 382)

DFG (D) (Loesungsmittelgemische), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU

project BC/CEN/ENTR/000/2002-16 card 66-3 (2004)

NIÓSH 1400 (ALCOHOLS I) - 1994

NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996

Draeger - Alcohol 100/a (CH 29 701)

BMGV: ---Other information: ---

Propan-2-ol						
Area of application	Exposure route / Environmental	Environmental compartment		Value	Unit	Note
	Environment - freshwater			140,9	mg/l	
	Environment - marine		PNEC	140,9	mg/l	
	Environment - sediment, freshwater		PNEC	552	mg/kg dw	
	Environment - sediment, marine		PNEC	552	mg/kg dw	
	Environment - soil		PNEC	28	mg/kg dw	
	Environment - sewage treatment plant		PNEC	2251	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	140,9	mg/l	
	Environment - oral (animal feed)		PNEC	160	mg/kg feed	
Consumer	Human - dermal	Long term, systemic effects	DNEL	319	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	89	mg/m3	
Consumer Human - oral		Long term, systemic effects	DNEL	26	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	888	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	500	mg/m3	

1,2-benzisothiazol-3(2H)-	one					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,00403	mg/l	
	Environment - marine		PNEC	0,00040 3	mg/l	
	Environment - sediment, freshwater		PNEC	0,0499	mg/kg dw	
	Environment - sediment, marine		PNEC	0,00499	mg/kg dw	
	Environment - soil		PNEC	3	mg/kg dw	
	Environment - sewage treatment plant		PNEC	1,03	mg/l	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,966	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	6,81	mg/m3	

2-methylisothiazol-3(2H)-one								
Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note		
	compartment							
	Environment - freshwater		PNEC	3,39	μg/l			



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	Environment - marine		PNEC	3,39	μg/l
	Environment - water, sporadic (intermittent) release		PNEC	3,39	µg/l
	Environment - sewage treatment plant		PNEC	0,23	mg/l
	Environment - soil		PNEC	0,0471	mg/kg
Consumer	Human - inhalation	Long term, local effects	DNEL	0,021	mg/m3
Consumer	Human - inhalation	Short term, local effects	DNEL	0,043	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	0,027	mg/kg body weight/day
Consumer	Human - oral	Short term, systemic effects	DNEL	0,053	mg/kg body weight/day
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,021	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,043	mg/m3

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
- (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

# 8.2 Exposure controls

# 8.2.1 Appropriate engineering controls

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

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

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

# 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

#### Eye/face protection:

Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

>= 0,5

Permeation time (penetration time) in minutes:

>= 480

Protective hand cream recommended.



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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:

Usual protective working garments

Respiratory protection: 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

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

# 8.2.3 Environmental exposure controls

No information available at present.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state: Liquid Colour: Colourless Odour: Characteristic

Melting point/freezing point: There is no information available on this parameter.

Boiling point or initial boiling point and boiling range: ~100 °C

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:

>65 °C Auto-ignition temperature: There is no information available on this parameter. Decomposition temperature: There is no information available on this parameter.

pH: 7,5 (100 %, 20°C, DIN 19268)

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

Solubility: Mixable

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

Vapour pressure: 23 hPa (20°C)

Density and/or relative density: 0,997 g/cm3 (20°C, DIN 51757)

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.

# **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

None known

# 10.5 Incompatible materials

None known



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# 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).

Maehroboter Reinigungs- und Pflegespray						
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.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4570-5840	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	12800-13900	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	> 25	mg/l/6h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Acute toxicity, by inhalation:	LC50	46600	mg/l/4h	Rat		Aerosol
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)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Carcinogenicity:						Negative
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336
Specific target organ toxicity - repeated exposure (STOT-RE):						Target organ(s):
Aspiration hazard:						No



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Symptoms:						breathing difficulties, unconsciousness , vomiting, headaches, fatigue, dizziness, nausea, eyes, reddened, watering eyes
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	5000	ppm	Rat		Vapours (OECD 451)

1,2-benzisothiazol-3(2H)-one						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	375	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	4115	mg/kg	Rat		
Skin corrosion/irritation:						Skin Irrit. 2
Serious eye damage/irritation:						Eye Dam. 1
Respiratory or skin				Guinea pig		Yes (skin
sensitisation:						contact)
Germ cell mutagenicity:					(Ames-Test)	Negative
Symptoms:						vomiting,
						headaches,
						gastrointestina
						disturbances,
						nausea

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	120	mg/kg	Rat	U.S. EPA Guidline	Female
					OPPTS 870.1100	
Acute toxicity, by oral route:	LD50	183	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	242	mg/kg	Rat	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	0,11	mg/l/4h	Rat	OECD 403 (Acute	Aerosol
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Corrosive
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit		Risk of serious
						damage to eyes
Serious eye damage/irritation:						Risk of serious
						damage to eyes
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
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)	
Reproductive toxicity:	NOAEL	200	ppm	Rat	OECD 416 (Two-	
					generation	
					Reproduction Toxicity	
					Study)	



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Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	60	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Symptoms:						mucous membrane irritation, watering eyes

# 11.2. Information on other hazards

Maehroboter Reinigungs- und Pflegespray								
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).

Maehroboter Reinigungs Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	Ziiapoiiit		74.45	J	O garnom	Tool mound	n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							The surfactant(s)
degradability:							contained in this
aogradabinty.							mixture
							complies(comply)
							with the
							biodegradability
							criteria as laid
							down in
							Regulation (EC)
							No.648/2004 on
							detergents. Data
							to support this
							assertion are
							held at the
							disposal of the
							competent
							authorities of the
							Member States
							and will be made
							available to
							them, at their
							direct request or
							at the request of
							a detergent
							manufacturer.
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.



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12.7. Other adverse effects:			No information available on other adverse effects on the
Other information:			environment.  DOC-elimination degree(complexi ng organic substance)>= 80%/28d: Yes
Other information:	AOX	%	Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative	BCF		3,2				Low
potential:							
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Leuciscus idus		
12.1. Toxicity to fish:	LC50	96h	1400	mg/l	Lepomis		
·					macrochirus		
12.1. Toxicity to daphnia:	EC50	48h	2285	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	EC50	16d	141	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus		
					subspicatus		
12.2. Persistence and		21d	95	%	·	OECD 301 E	Readily
degradability:						(Ready	biodegradable
,						Biodegradability -	
						Modified OECD	
						Screening Test)	
12.2. Persistence and			99,9	%		OECD 303 A	Readily
degradability:			,			(Simulation Test -	biodegradable
, ,						Aerobic Sewage	
						Treatment -	
						Activated Sludge	
						Units)	
12.3. Bioaccumulative	Log Pow		0,05			OECD 107	Slight
potential:	_0g. 0		0,00			(Partition	og
potoritian						Coefficient (n-	
						octanol/water) -	
						Shake Flask	
						Method)	
12.4. Mobility in soil:	Koc		1,1			Wiotilou)	Expert
12. 1. 1/100/11/3 11/100/11.	1100		','				judgement
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
and vi vi didecediment							vPvB substance
Toxicity to bacteria:	EC50		>1000	mg/l	activated sludge		VI VI GUDGIANIO
Toxicity to bacteria:	EC10	16h	1050	mg/l	Pseudomonas		
. chary to bacteria.	_5.0	10	1000	1119,1	putida		
Other organisms:	IC50	3d	2104	mg/l	Lactuca sativa		
Other information:	ThOD	- 50	2,4	g/g			
Other information:	BOD5		53	%			
Other information:	COD		96	%			References
Other information:	COD		2,4	g/g			1.0101011000
Other information:	BOD		1171	mg/g	-		

1,2-benzisothiazol-3(2H)	-one						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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12.1. Toxicity to fish:	LC50	96h	0,8-2,18	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	1,1-4,4	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	96h	0,055	mg/l	Pseudokirchneriell a subcapitata		
12.1. Toxicity to algae:	ErC50	72h	0,11	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:						OECD 303 (Simulation Test - Aerobic Sewage Treatment)	Hardly biodegradable
12.3. Bioaccumulative potential:	Log Pow		1,11				A notable biological accumulation potential is not to be expected (LogPow 1-3).
Toxicity to bacteria:	EC50	16h	0,4	mg/l	Pseudomonas putida		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and			< 0,08	d		OECD 307	
degradability:						(Aerobic and	
						Anaerobic	
						Transformation in	
						Soil)	
12.2. Persistence and			1,28-2,1	d		OECD 308	
degradability:						(Aerobic and	
						Anaerobic	
						Transformation in	
						Aquatic Sediment	
						Systems)	
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.3. Bioaccumulative	Log Kow		-0,5			OECD 117	
potential:						(Partition	
						Coefficient (n-	
						octanol/water) -	
						HPLC method)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,044	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to fish:	NOEC/NOEL	28d	2,38	mg/l	Pimephales	OECD 210 (Fish,	
					promelas	Early-Life Stage	
						Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	4,77	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,03	mg/l	Selenastrum	OECD 201 (Alga,	
					capricornutum	Growth Inhibition	
						Test)	



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12.2. Persistence and		48h	97	%		OECD 302 B	Readily
degradability:						(Inherent	biodegradable
						Biodegradability -	
						Zahn-	
						Wellens/EMPA	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,359	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.2. Persistence and		28d	0,32	%		OECD 301 B	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.2. Persistence and			4,1	d		OECD 309	
degradability:						(Aerobic	
						Mineralisation in	
						Surface Water -	
						Simulation	
						Biodegradation	
						Test)	
12.3. Bioaccumulative potential:	BCF		3,16				calculated value
12.1. Toxicity to algae:	EC50	72h	0,445	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	120h	0,05	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
Toxicity to bacteria:	EC50	3h	34,6	mg/l	activated sludge		DIN 38412-3
							(TTC-Test)
Toxicity to bacteria:	EC20	3h	2,8	mg/l	activated sludge		DIN 38412-3
							(TTC-Test)

# **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)

20 01 29 detergents 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.

Recommended cleaner:

Water

15 01 02 plastic packaging

# **SECTION 14: Transport information**



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**General statements** 

14.1. UN number or ID number: Not applicable

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:Not applicableClassification code:Not applicableLQ:Not applicable14.5. Environmental hazards:Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: Not applicable

Marine Pollutant: n.a

14.5. Environmental hazards: Not applicable

**Transport by air (IATA)** 

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: 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):

2.1 %

#### REGULATION (EC) No 648/2004

less than 5 % anionic surfactants

perfumes HEXYL CINNAMAL LIMONENE BENZISOTHIAZOLINONE METHYLISOTHIAZOLINONE

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

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

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

These are indicated in the approval of the active substance.

National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections:

2, 3, 6, 7, 8, 9, 11, 12, 13

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.



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# 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
, ,	Classification according to calculation procedure.

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

H330 Fatal if inhaled.

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Skin Sens. — Skin sensitization Flam. Liq. — Flammable liquid

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Acute Tox. — Acute toxicity - oral

Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage

Aquatic Acute — Hazardous to the aquatic environment - acute

Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - dermal

Skin Corr. — Skin corrosion

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.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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

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

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

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

# Any abbreviations and acronyms used in this document:

according, according to

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)



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Acute Toxicity Estimate

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

BCF Bioconcentration factor

BSEF The International Bromine Council

body weight bw

Chemical Abstracts Service CAS

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

dry weight dw

EC

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

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

**European Community** ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100)

Effect Concentration/Level for x % effect

**European Economic Community** EEC

**EINECS** European Inventory of Existing Commercial Chemical Substances

**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)

et cetera etc. EU **European Union** 

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number general gen.

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 International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

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

10 **Limited Quantities** 

MARPOL International Convention for the Prevention of Marine Pollution from Ships

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

organic org.

OSHA Occupational Safety and Health Administration (USA)

persistent, bioaccumulative and toxic PBT

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)



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REACH-IT List-No. 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

wwt wet weight

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

These statements were made by:

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

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