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

Revision date / version: 01.11.2021 / 0021

Replacing version dated / version: 10.08.2021 / 0020

Valid from: 01.11.2021 PDF print date: 01.11.2021 Motorbike Kuehlerdichter

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

1.1 Product identifier

Motorbike Kuehlerdichter

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

See definition of the substance or mixture.

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr

Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

+1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

STOT RE 2 H373-May cause damage to organs through prolonged

or repeated exposure.

2.2 Label elements

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





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H373-May cause damage to organs through prolonged or repeated exposure.

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

P260-Do not breathe vapours or spray.

P314-Get medical advice / attention if you feel unwell.

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

EUH208-Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Ethanediol

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

Ethanediol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119456816-28-XXXX
Index	603-027-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	203-473-3
CAS	107-21-1
content %	10-<20
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	STOT RE 2, H373 (kidneys) (oral)

Sodium nitrite	
Registration number (REACH)	01-2119471836-27-XXXX
Index	007-010-00-4
EINECS, ELINCS, NLP, REACH-IT List-No.	231-555-9
CAS	7632-00-0
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Ox. Sol. 3, H272
	Acute Tox. 3, H301
	Eye Irrit. 2, H319
	Aquatic Acute 1, H400 (M=1)

Disodium tetraborate pentahydrate	SVHC-substance
Registration number (REACH)	01-2119490790-32-XXXX
Index	005-011-02-9
EINECS, ELINCS, NLP, REACH-IT List-No.	215-540-4
CAS	12179-04-3
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Irrit. 2, H319
	Repr. 1B, H360FD

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-	
2H-isothiazol-3-one (3:1)	
Registration number (REACH)	
Index	613-167-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	55965-84-9



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content %	0,001-<0,0015		
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH071		
	Acute Tox. 2, H310		
	Acute Tox. 2, H330		
	Acute Tox. 3, H301		
	Skin Corr. 1C, H314		
	Eye Dam. 1, H318		
	Skin Sens. 1A, H317		
	Aquatic Acute 1, H400 (M=100)		
	Aquatic Chronic 1, H410 (M=100)		
Specific Concentration Limits and ATE	Skin Corr. 1C, H314: >=0,6 %		
	Skin Irrit. 2, H315: >=0,06 %		
	Eye Dam. 1, H318: >=0,6 %		
	Eye Irrit. 2, H319: >=0,06 %		
	Skin Sens. 1A, H317: >=0,0015 %		

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.

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.

If applicable

Induce vomiting.

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.

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

Product is not combustible.

Adapt to the nature and extent of fire.

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

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.



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Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

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

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Keep unprotected persons away.

Ensure sufficient supply of air.

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) and dispose of according to Section 13.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with oxidizing agents.

Store in a well ventilated place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Ethanediol	Content %:10- <20
WEL-TWA: 10 mg/m3 (particulate), (vapour) (WEL), 20 ppm (52 mg/m3)		



GB)

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Monitoring procedures:

BMGV: ---

- Draeger Ethylene Glycol 10 (5) (81 01 351)
- Compur KITA-232 SA (502 342)
- Compur KITA-232 SB (550 267)
 NIOSH 5500 (ETHYLENE GLYCOL) 1993
- NIOSH 5523 (GLYCOLS) 1996

OSHA PV2024 (Ethylene glycol) - 1999 - EU project BC/CEN/ENTR/000/2002-16 card

Other information: Sk (particulate, vapour)

- 11-2 (2004)

 Image: Chemical Name of Disodium tetraborate pentahydrate of Disodi

Ethanediol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	10	mg/l	
	Environment - marine		PNEC	1	mg/l	
	Environment - sediment		PNEC	20,9	mg/kg	
	Environment - soil		PNEC	1,53	mg/kg	
	Environment - sewage treatment plant		PNEC	199,5	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	37	mg/kg dry weight	
	Environment - sediment, marine		PNEC	3,7	mg/kg dry weight	
Consumer	Human - inhalation	Long term, local effects	DNEL	7	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	53	mg/kg	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	35	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	106	mg/kg bw/d	

Sodium nitrite Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
та са старисанот	Environmental		2000	"""		13333
	compartment					
	Environment - freshwater		PNEC	0,0054	mg/l	
	Environment - marine		PNEC	0,00616	mg/l	
	Environment - sewage treatment plant		PNEC	21	mg/l	
	Environment - sediment, freshwater		PNEC	0,019	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,0223	mg/kg dry weight	
	Environment - soil		PNEC	0,00073	mg/kg	
	Environment - sewage treatment plant		PNEC	21	mg/kg	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	2	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2	mg/m3	

Disodium tetraborate pentahydrate



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Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - sporadic (intermittent) release		PNEC	13,7	mg/l	
	Environment - freshwater		PNEC	2,9	mg/l	
	Environment - marine		PNEC	2,9	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - soil		PNEC	5,7	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,15	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	4,9	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	231,8	mg/kg bw/day	
Consumer	Human - oral	Short term, systemic effects	DNEL	0,79	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	17,04	mg/l	
Consumer	Human - inhalation	Short term, local effects	DNEL	17,04	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	1,15	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic DNEL effects		9,8	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	316,4	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	17,04	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	17,04	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:



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

Skin protection - Hand protection:

Rubber gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

0.35

Permeation time (penetration time) in minutes:

> 480

Protective hand cream recommended.

The recommended maximum wearing time is 50% of breakthrough time.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

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.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

manufacturer

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: 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: Bulk density:

Liquid White

Slightly

There is no information available on this parameter. There is no information available on this parameter.

Flammable

There is no information available on this parameter. There is no information available on this parameter.

>100 °C

There is no information available on this parameter. There is no information available on this parameter.

7-8

130 mm2/s (40°C)

Mixable

Does not apply to mixtures.

There is no information available on this parameter.

1,05 g/ml (20°C)

There is no information available on this parameter.

Does not apply to liquids.

Product is not explosive.

No n.a.



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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

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).

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
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.

Ethanediol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1600	mg/kg	Human being		
Acute toxicity, by dermal route:	LD50	9530	mg/kg	Rabbit		
Acute toxicity, by dermal route:	LD50	>3500	mg/kg	Mouse		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin				Human being	(Patch-Test)	Negative
sensitisation:						
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Rat	in vivo	Negative
Reproductive toxicity:	NOAEL	1000	mg/kg bw/d	Rat		
Symptoms:						ataxia, breathing difficulties, unconsciousness , cramps, fatique

Sodium nitrite						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes



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Acute toxicity, by oral route:	LD50	180	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	5,5	mg/l/4h	Rat		Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Slightly irritant,
					Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Aspiration hazard:						No
Symptoms:						breathing
						difficulties,
						abdominal pain,
						unconsciousness
						, drop in blood
						pressure,
						annoyance,
						disturbed heart
						rhythm, collapse,
						headaches,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.

Disodium tetraborate pentahyo	drate					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3200-3400	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>2	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit		Not irritant, Analogous conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Carcinogenicity:				Mouse	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	No indications of such an effect., Analogous conclusion
Reproductive toxicity:				Rat		Repr. 1B, Analogous conclusion
Symptoms:						breathing difficulties, headaches, gastrointestinal disturbances, dizziness, nausea

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	64-66	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Acute Tox. 3			
Acute toxicity, by dermal route:	LD50	87,12	mg/kg	Rabbit		Acute Tox. 2			
Acute toxicity, by dermal route:	LD50	> 141	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	Acute Tox. 2			



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Acute toxicity, by inhalation:	LC50	0,17-0,33	mg/l/4h	Rat	OECD 403 (Acute	Aerosol, Dust,
					Inhalation Toxicity)	Acute Tox. 2
Acute toxicity, by inhalation:	LC50	0,81	mg/l/4h	Rat	OECD 403 (Acute	Vapours, Acute
					Inhalation Toxicity)	Tox. 2
Skin corrosion/irritation:				Rabbit		Skin Corr. 1C
Serious eye damage/irritation:				Rabbit		Eye Dam. 1
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin
sensitisation:					Sensitisation)	contact), Skin
						Sens. 1A
Symptoms:						diarrhoea,
						mucous
						membrane
						irritation,
						watering eyes

11.2. Information on other hazards

Motorbike Kuehlerdichter										
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).

Motorbike Kuehlerdichte							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							n.d.a.
degradability:							
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.

Ethanediol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to bacteria:	EC20	30min	>1995	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Pimephales promelas	IUCLID Chem. Data Sheet (ESIS)	



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12.1. Toxicity to fish:	NOEC/NOEL	7d	15380	mg/l	Pimephales	U.S. EPA	
					promelas	ECOTOX	
				,		Database	
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
12.1 Tayloity to donbaicy	NOEC/NOEL		8590	m a/l	Danhaia magna	Test) U.S. EPA	
12.1. Toxicity to daphnia:	NOEC/NOEL		8590	mg/l	Daphnia magna	ECOTOX	
						Database	
12.1. Toxicity to algae:	EC50	96h	6500-	mg/l	Pseudokirchneriell	Dalabase	
12.1. Toxicity to algae.	2000	3011	7500	1119/1	a subcapitata		
12.2. Persistence and		28d	56	%	a sabsapitata	OECD 301 C	
degradability:				, ,		(Ready	
,						Biodegradability -	
						Modified MITI	
						Test (I))	
12.2. Persistence and		10d	90-100	%		OECD 301 A	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						DOC Die-Away	
						Test)	
12.3. Bioaccumulative	Log Pow		-1,36				Not to be
potential:							expected
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
Taviaity to bootories	EC50	16h	>10000	m a/l	Pseudomonas	IUCLID Chem.	vPvB substance
Toxicity to bacteria:	EC30	1011	>10000	mg/l			
Other information:	BOD5		0.78	g/g	putida	Data Sheet (ESIS)	IUCLID
Other information.	10000		0,70	9/9			IOOLID

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	28d	1,05	mg/l	Cyprinus carpio	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
Water solubility:							Soluble
12.1. Toxicity to fish:	LC50	96h	0,54- 26,3	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	15,4	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus subspicatus	OEĆD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulative potential:							Not relevant for inorganic substances.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	3h	210	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	



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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and							Inorganic
degradability:							products cannot
							be eliminated
							from water
							through
							biological
							purification
							methods.
12.1. Toxicity to fish:	NOEC/NOEL	34d	6,4	mg/l	Brachydanio rerio		
12.1. Toxicity to fish:	NOEC/NOEL	96h	13	mg/l	Brachydanio rerio		
12.1. Toxicity to fish:	LC50	96h	74	mg/l	Limanda limanda		Analogous
							conclusion
12.1. Toxicity to daphnia:	EC50	48h	133	mg/l	Daphnia magna		Analogous
							conclusion
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10,8	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	96h	52,4	mg/l	Pseudokirchneriell		
					a subcapitata		
12.1. Toxicity to algae:	NOEC/NOEL	10d	50	mg/l			
12.3. Bioaccumulative	BCF		121	L/kg			Analogous
potential:							conclusion

Reaction mass of 5-chlo	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes					
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,0012	mg/l	Pseudokirchneriell	OECD 201 (Alga,						
					a subcapitata	Growth Inhibition						
						Test)						
12.1. Toxicity to algae:	NOEC/NOEL	48h	0,00064	mg/l	Skeletonema	ISO 10253						
					costatum							
12.2. Persistence and			>60	%	activated sludge	OECD 301 D	Does not					
degradability:						(Ready	conform with EU					
						Biodegradability -	classification.					
						Closed Bottle Test)						
12.1. Toxicity to algae:	EC50	48h	0,0052	mg/l	Skeletonema	ISO 10253						
					costatum							
12.5. Results of PBT							No PBT					
and vPvB assessment							substance, No					
							vPvB substance					
Toxicity to bacteria:	EC50	3h	7,92	mg/l	activated sludge	OECD 209						
						(Activated Sludge,						
						Respiration						
						Inhibition Test						
						(Carbon and						
						Ammonium						
						Oxidation))						

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)

07 07 01 aqueous washing liquids and mother liquors

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



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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

14.1. UN number or ID number: n.a.

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Classification code:n.a.LQ:n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Marine Pollutant:n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

n.a.

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 the protection of young people at work (national implementation of the Directive 94/33/EC)! Regulation (EC) No 1907/2006, Annex XVII

Disodium tetraborate pentahydrate

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

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

0,022065 %

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.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1-16

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
STOT RE 2, H373	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.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H272 May intensify fire, oxidiser.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H317 May cause an allergic skin reaction.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

STOT RE — Specific target organ toxicity - repeated exposure

Acute Tox. — Acute toxicity - oral

Ox. Sol. — Oxidising solid

Eye Irrit. — Eye irritation

Aquatic Acute — Hazardous to the aquatic environment - acute

Repr. — Reproductive toxicity Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - inhalation Skin Corr. — Skin corrosion

Eye Dam. — Serious eye damage

Skin Sens. — Skin sensitization

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 acc., acc. to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

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

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

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

EC **European Community** ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

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 gen. general

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)

International Maritime Code for Dangerous Goods IMDG-code

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 NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

organic org.

PBT persistent, bioaccumulative and toxic

Polyethylene PΕ

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. 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.



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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

wet weight wwt

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

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

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