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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

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

Schmutz- und Fettlöser **Uses advised against:** No information available at present.

1.3 Details of the supplier of the safety data sheet

DREITURM GmbH Postach 11 40 36392 Steinau an der Straße Tel.: +49 (0) 66 63 / 970 - 0 Fax: +49 (0) 66 63 / 970 - 490

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:

+1 872 5888271 (DTR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statemenEye Dam.1H318-Causes seriSkin Corr.1H314-Causes seri

Hazard statement H318-Causes serious eye damage. H314-Causes severe skin burns and eye damage.

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





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H314-Causes severe skin burns and eye damage.

P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing and eye protection / face protection. P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

Potassium hydroxide

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine

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

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3.2 Mixtures

Tetrapotassium pyrophosphate	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	230-785-7
CAS	7320-34-5
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Eye Irrit. 2, H319
factors	

Potassium carbonate	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	209-529-3
CAS	584-08-7
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Irrit. 2, H315
factors	Eye Irrit. 2, H319
	STOT SE 3, H335

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine		
Registration number (REACH)	01-2119971970-28-XXXX	
Index		
EINECS, ELINCS, NLP, REACH-IT List-No.	939-464-2	
CAS	121617-08-1	
content %	1-<5	
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Corr. 1C, H314	
factors	Eye Dam. 1, H318	
	Aquatic Chronic 3, H412	
Specific Concentration Limits and ATE	Skin Corr. 1C, H314: >=50 %	
	Skin Irrit. 2, H315: 1-<50 %	



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Potassium hydroxide	
Registration number (REACH)	01-2119487136-33-XXXX
Index	019-002-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	215-181-3
CAS	1310-58-3
content %	0,5-<2
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Met. Corr. 1, H290
factors	Acute Tox. 4, H302
	Skin Corr. 1A, H314
	Eye Dam. 1, H318
Specific Concentration Limits and ATE	Skin Corr. 1A, H314: >=5 %
	Skin Corr. 1B, H314: >=2 %
	Skin Irrit. 2, H315: >=0,5 %
	Eye Irrit. 2, H319: >=0,5 %

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

Remove person from danger area.

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

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Consult medical specialist.

Ingestion

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. 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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire.

Unsuitable extinguishing media

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 phosphorus Corrosive vapours

5.3 Advice for firefighters

For personal protective equipment see Section 8.



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Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

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.

Do not pour down the drain undiluted.

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) 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.

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

There should be an eyewash station and safety shower located near the area of use.

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 use alkali sensitive materials.

Store separately from acids.

Protect from frost.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters



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Chemical Name	Potassium hydroxide	
WEL-TWA:	WEL-STEL: 2 mg/m3	
Monitoring procedures:	ISO 15202 (Workplace air - Determination of metals	and metalloids in airborne
	particulate matter by Inductively Coupled Plasma Ato	mic Emission
	- Spectrometry), Part 1-3 - 2012(Part 1), 2012(Part 2),	2004 (Part 3)
	- NIOSH 7401 (Alkaline dusts) - 1994	
	OSHA ID-121 (Metal and metalloid particulates in wo	kplace atmospheres
	(Atomic absorption)) - 2002 - EU project BC/CEN/EN	TR/000/2002-16 card 44-5
	- (2004)	
BMGV:	Other information:	

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,05	mg/l	
	Environment - marine		PNEC	0,005	mg/l	
	Environment - sewage		PNEC	50	mg/l	
	treatment plant					
	Environment - sporadic		PNEC	0,5	mg/l	
	(intermittent) release					
Consumer	Human - oral		DNEL	70	mg/kg	
					bw/day	
Consumer	Human - inhalation		DNEL	0,68	mg/l	
Consumer	Human - inhalation	Long term, systemic	DNEL	4,35	mg/m3	
		effects				
Workers / employees	Human - inhalation		DNEL	2,79	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	17,63	mg/m3	
		effects				

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - soil		PNEC	35	mg/kg dw	
	Environment - sewage treatment plant		PNEC	7	mg/l	
	Environment - freshwater		PNEC	0,268	mg/l	
	Environment - marine		PNEC	0,0268	mg/kg	
	Environment - sediment, freshwater		PNEC	8,1	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,58	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,2	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,01	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	4,1	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	5,29	mg/kg bw/day	

Area of application Exposure route / Environmental Effect on health Descr	ripto Value	Unit	Note
compartment	•		NOLE



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Consumer	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1	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 nonmetrological investigative techniques.

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection: Tight fitting protective goggles with side protection (EN 166). According to operation. Face protection (EN 166).

Skin protection - Hand protection: Rubber gloves (EN ISO 374). Protective hand cream recommended. Use alkali resistant protective gloves (EN ISO 374). Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: >= 0,35 Permeation time (penetration time) in minutes: >= 480 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.



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Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

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

Dhysical states	
Physical state:	Liquid
Colour:	Light yellow
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	There is no information available on this parameter.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	There is no information available on this parameter.
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	13
Kinematic viscosity:	There is no information available on this parameter.
Solubility:	Soluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	1,088 g/ml
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:	There is no information available on this parameter.

SECTION 10: Stability and reactivity

10.1 Reactivity

Contact with strong acids leads to strong exothermic reaction. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** See also Subsection 10.1 to 10.6. **10.4 Conditions to avoid** None known **10.5 Incompatible materials** Avoid contact with strong acids. Avoid contact with alkali sensitive materials. **10.6 Hazardous decomposition products** See also Subsection 10.1 to 10.5

See also Subsection 10.1 to 10.5. See also section 5.2



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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).

MULTICLEAN Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated
						value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated
						value, Aerosol
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
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.

Tetrapotassium pyrophosph	nate					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	>1,1	mg/l/4h	Rat	OECD 403 (Acute	
			-		Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	
Symptoms:						mucous
						membrane
						irritation

Potassium carbonate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:						Irritant
Serious eye						Irritant
damage/irritation:						
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	-



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Symptoms:						respiratory distress, coughing, mucous membrane irritation, nausea and vomiting.
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Irritation of the respiratory tract
Benzenesulfonic acid, 4-C10	-13-sec-alkvl	derivs com	ods. with trie	ethanolamine		
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 dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive, Skin Corr. 1C
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:	NOAEL	300	mg/kg bw/d	Rat	OECD 421 (Reproduction/Develop mental Toxicity Screening Test)	
Potassium hydroxide	F undaria in t	Malua	1.1	Onneniem	To all we all and	Nataa
Toxicity / effect Acute toxicity, by oral route:	Endpoint LD50	Value 333-388	Unit mg/kg	Organism Rat	Test method OECD 425 (Acute Oral Toxicity - Up-and- Down Procedure)	Notes 1 week observation
Skin corrosion/irritation:					OECD 431 (In Vitro Skin Corrosion - Human Skin Model Test)	Corrosive
Skin corrosion/irritation:						Skin Corr. 1A
Serious eye damage/irritation:						Eye Dam. 1
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Corrosive
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising
Germ cell mutagenicity:					in vivo	Negative
Germ cell mutagenicity: Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test) OECD 471 (Bacterial Reverse Mutation Test)	Negative Negative
11.2. Information on ot	her hazaro	ds				
MULTICLEAN						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes



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Endocrine disrupting			Does not apply
properties:			to mixtures.
Other information:			No other
			relevant
			information
			available on
			adverse effects
			on health.

					al information		
Possibly more information	on on environm	nental effect	s, see Sect	tion 2.1 (cla	assification).		
MULTICLEAN Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
	Епаропі	Time	value	Unit	Organishi	Test method	
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.
2.2. Persistence and							The
legradability:							surfactant(s)
							contained in
							this mixture
							complies(comp
							y) with the
							biodegradabili
							criteria as laid
							down in
							Regulation
							(EČ)
							No.648/2004
							on detergents.
							Data to suppo
							this assertion
							are held at the
							disposal of the
							competent
							authorities of
							the Member
							States and wil
							be made
							available to
							them, at their
							direct request
							or at the
							request of a
							detergent
							manufacturer.
2.3. Bioaccumulative							n.d.a.
otential:							
2.4. Mobility in soil:							n.d.a.
2.5. Results of PBT							n.d.a.
nd vPvB assessment							
2.6. Endocrine							Does not apply
isrupting properties:							to mixtures.
2.7. Other adverse							No information
ffects:							available on
							other adverse
							effects on the
		1			1		environment.



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Other information:			DOC-
			elimination
			degree(complex
			ing organic
			substance)>=
			80%/28d: n.a.

Tetrapotassium pyrop		T !	Valer	1.1 14	0	Test weath a 1	Nataa
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus	OECD 203	
					mykiss	(Fish, Acute	
		-				Toxicity Test)	
12.1. Toxicity to	EC50	48h	>100	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus	OECD 201	
					subspicatus	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Desmodesmus	OECD 201	
					subspicatus	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and							Not relevant fo
degradability:							inorganic
							substances.
12.3. Bioaccumulative	Log Pow		~ -2				Bioaccumulatio
potential:							n is unlikely
							(LogPow < 1).
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substanc
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209	
				_		(Activated	
						Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	
Other information:							Contains
							organically
							bound
							halogens,
							which may
							contribute to
							the AOX value
							in wastewater.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	72h	200	mg/l			
12.1. Toxicity to fish:	LC50		200	mg/l		DIN 38412 T.15	

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine						
Endpoint	Time	Value	Unit	Organism	Test method	Notes
	28d	94	%		OECD 301 A	
					(Ready	
					Biodegradability -	
					DOC Die-Away	
					Test)	
		Endpoint Ťime	Endpoint Time Value	Endpoint Time Value Unit	Endpoint Time Value Unit Organism	EndpointTimeValueUnitOrganismTest method28d94%OECD 301 A (Ready Biodegradability - DOC Die-Away

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· · · · · · · · · · · · · · · · · · ·						
12.2. Persistence and		28d	>60	%		OECD 301 B
degradability:						(Ready
						Biodegradability -
						Co2 Evolution
						Test)
12.1. Toxicity to fish:	LC50	96h	5,7	mg/l	Brachydanio rerio	OECD 203
				_		(Fish, Acute
						Toxicity Test)
12.1. Toxicity to	EC50	48h	10,6	mg/l	Daphnia magna	OECD 202
daphnia:						(Daphnia sp.
						Acute
						Immobilisation
						Test)
12.1. Toxicity to	NOEC/NOEL	21d	2,8	mg/l	Daphnia magna	OECD 202
daphnia:						(Daphnia sp.
-						Acute
						Immobilisation
						Test)
12.1. Toxicity to algae:	EC50	72h	52,8	mg/l	Scenedesmus	OEĆD 201
, , ,				Ū	subspicatus	(Alga, Growth
						Inhibition Test)

Potassium hydroxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.4. Mobility in soil:	-						Not to be
							expected
12.1. Toxicity to fish:	LC50	96h	80	mg/l	Gambusia affinis		
12.1. Toxicity to	EC50	48h	40,4	mg/l	Ceriodaphnia		
daphnia:					spec.		
12.1. Toxicity to fish:	LC50	24h	165	mg/l	Poecilia reticulata		
12.2. Persistence and							Not relevant for
degradability:							inorganic
							substances.
12.3. Bioaccumulative							Not to be
potential:							expected
Toxicity to bacteria:	EC50	15min	22	mg/l	Photobacterium		
					phosphoreum		

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 06 01 aqueous washing liquids and mother liquors

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.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 10 packaging containing residues of or contaminated by hazardous substances



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SECTION 14: Transport information

General statements Transport by road/by rail (ADR/RID)

Transport by road/by rall (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
LQ:	Not applicable
Transport category:	Not applicable
Transport by sea (IMDG-code)	
14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Marine Pollutant:	Not applicable
EmS:	Not applicable
Transport by air (IATA)	
14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
Unless specified otherwise, general measures for safe t	ransport 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):

~1%

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: 3, 8, 11 These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

3, 8, 11, 12, 15



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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
Eye Dam. 1, H318	Classification based on the pH value.
Skin Corr. 1, H314	Classification based on the pH value.

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). H314 Causes severe skin burns and eve damage. H290 May be corrosive to metals. H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects. Eye Dam. — Serious eye damage Skin Corr. — Skin corrosion Eye Irrit. - Eye irritation Skin Irrit. — Skin irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Aquatic Chronic — Hazardous to the aquatic environment - chronic Met. Corr. - Substance or mixture corrosive to metals Acute Tox. - Acute toxicity - oral

Key literature references and sources for data:

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

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

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

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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

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

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

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

Any abbreviations and acronyms used in this document:

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) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BSEF The International Bromine Council body weight bw CAS Chemical Abstracts Service

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SVHC Substances of Very High Concern Telephone Tel. TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative 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 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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