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Art.: 518999

### 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

#### **Boat Descaling Wash**

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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:

Vehicle cleansing

#### **Uses advised against:**

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

Koch-Chemie GmbH Einsteinstrasse 42 59423 Unna

Telefon: +49 (0) 2303 / 9 86 70 - 0 Fax: +49 (0) 2303 / 9 86 70 - 26

info@koch-chemie.com www.koch-chemie.com

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:**

(IRL)

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:

+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)

+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

#### Telephone number of the company in case of emergencies:

+1 872 5888271 (KCC)

#### **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 statem	Hazard class	Hazard category	Hazard statement
--	--------------	-----------------	------------------

Eye Dam. 1 H318-Causes serious eye damage.

Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

Met. Corr. 1 H290-May be corrosive to metals.

Skin Corr. 1 H314-Causes severe skin burns and eye damage.

#### 2.2 Label elements

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



#### Danger

H412-Harmful to aquatic life with long lasting effects. H290-May be corrosive to metals. H314-Causes severe skin burns and eye damage.

P260-Do not breathe vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / protective clothing / 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. P390-Absorb spillage to prevent material damage.

Methanesulphonic acid Myristyl dimethyl aminoxide Phosphoric acid

#### 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

Myristyl dimethyl aminoxide	
Registration number (REACH)	01-2119949262-37-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	222-059-3
CAS	3332-27-2
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 4, H302
factors	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 2, H411
Specific Concentration Limits and ATE	ATE (oral): 500 mg/kg

2-Butoxyethanol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475108-36-XXXX

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Index	603-014-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	203-905-0
CAS	111-76-2
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 3, H331
factors	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	ATE (oral): 1200 mg/kg
	ATE (as inhalation, Aerosol): 0,5 mg/l/4h
	ATE (as inhalation, Vapours): 3 mg/l

Phosphoric acid	Substance for which an EU exposure limit value
	applies.
Registration number (REACH)	01-2119485924-24-XXXX
Index	015-011-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	231-633-2
CAS	7664-38-2
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Met. Corr. 1, H290
factors	Acute Tox. 4, H302
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
Specific Concentration Limits and ATE	Skin Corr. 1B, H314: >=25 %
	Skin Irrit. 2, H315: >=10 %
	Eye Dam. 1, H318: >=25 %
	Eye Irrit. 2, H319: >=10 %
	ATE (oral): 500 mg/kg

Methanesulphonic acid	
Registration number (REACH)	01-2119491166-34-XXXX
Index	607-145-00-4
EINECS, ELINCS, NLP, REACH-IT List-No.	200-898-6
CAS	75-75-2
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Met. Corr. 1, H290
factors	Acute Tox. 4, H302
	Acute Tox. 4, H312
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	STOT SE 3, H335
Specific Concentration Limits and ATE	ATE (oral): 648,7 mg/kg
	ATE (dermal): 1100 mg/kg

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

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

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#### Skin contact

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

Cauterizations not treated lead to wounds difficult to heal.

#### Eye contact

Remove contact lenses.

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

Protect uninjured eye.

Follow-up examination by an ophthalmologist.

#### Ingestion

Rinse the mouth thoroughly with water.

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

#### 4.2 Most important symptoms and effects, both acute and delayed

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

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

Corrosive burns on skin as well as mucous membrane possible.

Necrosis

Risk of serious damage to eyes.

Corneal damage.

Danger of blindness.

Pain in the mouth and throat

Gastrointestinal disturbances

Oesophageal perforation

Gastric perforation

#### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO2 / dry extinguisher.

#### 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 nitrogen

Oxides of carbon

Oxides of sulphur

Toxic gases

#### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

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

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

#### **SECTION 6: Accidental release measures**

#### 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.

### KochChemie<sup>6</sup> **ExcellenceForExperts.**

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Avoid contact with eves 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 surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

Neutralising is possible (only from a specialist).

Diluting with water is possible.

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.

Handle and open container with care.

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

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.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Do not use acid sensitive materials.

Acid-resistant floor necessary.

Do not store with alkalis.

Store at room temperature.

Store in a dry place.

#### 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries.

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

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

#### 8.1 Control parameters



© Chemical Name

2-Butoxyethanol

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WEL-TWA: 25 ppm (123 mg/m3) (\) 20 ppm (98 mg/m3) (EU)		WEL-STEL: 50 ppr EU)	n (246 m	ng/m3) (WEL	-STEL,		
Monitoring procedures:	- Con DFC - 201 - NIO - NIO	npur - KITA-190 U(C G MethNr. 2 (D) (Lc 4, 2002 - EU project OSH 1403 (ALCOHO OSH 2549 (VOLATIL HA 83 (2-Butoxyetha	Desungs BC/CEI LS IV) - E ORGA	mittelgemiscl N/ENTR/000/ 2003 NIC COMPC	/2002-16 c DUNDS (S	ard 32-2 (20	04)
BMGV: 240 mmol butoxyacetic acid				Other infor		Sk (WEL)	
	-Butoxyethanol	· 1		'			
OELV-8h: 20 ppm (98 mg/m3) (OE	LV-8h, EU) C	DELV-15min: 50 pp 15min, EU)			LV-		
Monitoring procedures:	DFC	mpur - KITA-190 U(C G MethNr. 2 (D) (Lo	pesungs	mittelgemiscl	he 3), DF0	G (E) (Solven	t mixtures 3) -
	- NIO	4, 2002 - EU project SH 1403 (ALCOHO SH 2549 (VOLATIL	LS IV) -	2003		`	,
		HA 83 (2-Butoxyetha				CILLINING)	) - 1990
BLV: 200 mg/g creatinine (Butoxya				Other infor		Sk, IOELV	
	Butoxyethanol						
OELV-8h: 20 ppm (98 mg/m3) (OE		DELV-ST: 50 ppm	(246 mg	/m3) (OELV-	·ST, EU)		
Monitoring procedures:		mpur - KITA-190 U(C					
		G MethNr. 2 (D) (Lo					
		4, 2002 - EU project OSH 1403 (ALCOHO			/2002-16 0	ard 32-2 (20	04)
		)SH 2549 (VOLATIL			DUNDS (S	CREENING)	) - 1996
		HA 83 (2-Butoxyetha				,	,
BMGV: 240 mmol butoxyacetic aci	d/mol creatinine in	urine, post shift (BM	IGV)	Other infor	mation:	Skin	
Chemical Name	hosphoric acid						
WEL-TWA: 1 mg/m3 (WEL-TWA, I		NEL-STEL: 2 mg/r					
Monitoring procedures:		SHT MTA/MA-019/A9					air)
		HA ID-111 (Phospho HA ID-165SG (Acid					
BMGV:	- 051	HA ID-1055G (ACIU	IVIIST III V	Other infor		s) - 1965 	
				Other inior	mation.		
© Chemical Name P OELV-8h: 1 mg/m3 (OELV-8h, EU	hosphoric acid	)EI \/ 15min: 2 ma	/m2 (OE	IV 15min E	1.1\	1	
Monitoring procedures:		DELV-15min:    2 mg SHT MTA/MA-019/A9				cid anions in	air)
intermeding procedures:		HA ID-111 (Phospho					,
	- OSI	HA ID-165SG (Acid	Mist In V				
BLV:				Other infor	mation:	IOELV	
M Chemical Name P	hosphoric acid						
OELV-8h: 1 mg/m3 (OELV-8h, EU)		DELV-ST: 2 mg/m3	3 (OELV	-ST, EU)			
Monitoring procedures:		SHT MTA/MA-019/A9					air)
		HA ID-111 (Phospho HA ID-165SG (Acid					
BMGV:	- 031	HA ID-1655G (ACIU	IVIIST III V	Other infor			
© Chemical Name G	lycerol						
WEL-TWA: 10 mg/m3 (mist)		WEL-STEL:					
Monitoring procedures:							
BMGV:				Other infor	mation:		
Myristyl dimethyl aminoxide  Area of application Expos	ure route /	Effect on healt	h	Dosorinta	Value	Unit	Note
	nmental	Effect off fleatt		Descripto r	value	Onit	NOTE

PNEC

0,034

mg/l

compartment

Environment - freshwater

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	Environment - marine		PNEC	0,003	mg/l
	Environment - sediment, freshwater		PNEC	5,24	mg/kg dry weight
	Environment - sediment, marine		PNEC	0,524	mg/kg dry weight
	Environment - soil		PNEC	1,02	mg/kg dry weight
	Environment - sewage treatment plant		PNEC	24	mg/Ĭ
	Environment - oral (animal feed)		PNEC	1,1	mg/kg bw/day
	Environment - sporadic (intermittent) release		PNEC	0,034	mg/l
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,53	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	5,5	mg/kg bw/day
Consumer	Human - oral	Long term, systemic effects	DNEL	0,44	mg/kg bw/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	6,2	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	11	mg/kg bw/day

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental compartment		r			
	Environment - freshwater		PNEC	8,8	mg/l	
	Environment - marine		PNEC	0,88	mg/l	
	Environment - sediment, freshwater		PNEC	34,6	mg/kg dw	
	Environment - soil		PNEC	2,8	mg/kg dw	
	Environment - sewage treatment plant		PNEC	463	mg/l	
	Environment - sediment, marine		PNEC	3,46	mg/kg dw	
	Environment - sporadic (intermittent) release		PNEC	9,1	mg/l	
	Environment - soil		PNEC	2,33	mg/kg	
	Environment - oral (animal feed)		PNEC	20	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	123	mg/m3	
Consumer	Human - dermal	Short term, systemic effects	DNEL	44,5	mg/kg bw/d	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	426	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	13,4	mg/kg bw/d	
Consumer	Human - inhalation	Short term, local effects	DNEL	147	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	38	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	49	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	3,2	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d	

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Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	663	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	246	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	75	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	98	mg/m3	

Phosphoric acid						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
Consumer	Human - inhalation	Long term, local effects	DNEL	0,73	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	2	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	4,57	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,36	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,1	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	2,92	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	10,7	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	

Area of application	Exposure route / Environmental	Effect on health	Descripto r	Value	Unit	Note
	compartment		DVIEG	0.010		
	Environment - freshwater		PNEC	0,012	mg/l	
	Environment - marine		PNEC	0,0012	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,12	mg/l	
	Environment - sediment, freshwater		PNEC	0,0251	mg/kg	
	Environment - soil		PNEC	0,00183	mg/kg	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, marine		PNEC	0,0044	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	8,33	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,44	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	1,44	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,42	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	8,33	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	6,76	mg/m3	

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Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,7	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	19,44	mg/kg	

Glycerol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,885	mg/l	
	Environment - marine		PNEC	0,088	mg/l	
	Environment - sewage treatment plant		PNEC	1000	mg/l	
	Environment - sediment, freshwater		PNEC	3,3	mg/kg dw	
	Environment - sediment, marine		PNEC	0,33	mg/kg dw	
	Environment - soil		PNEC	0,141	mg/kg dw	
	Environment - water, sporadic (intermittent) release		PNEC	8,85	mg/l	
Consumer	Human - inhalation	Long term, local effects	DNEL	33	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	229	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	56	mg/m3	

- United Kingdom | WEL-TWA = Workplace Exposure Limit Long-term exposure limit 8-hour TWA (= time weighted average)
   reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
  (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
  (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). |
  | WEL-STEL = Workplace Exposure Limit Short-term exposure limit 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EÉC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE).
- Ireland/Éire | OELV-8h = Occupational Exposure Limit Value 8-hour reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | OELV-15min = Occupational Exposure Limit Value 15-minute reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term

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exposure limit value in relation to a reference period of 1 minute (2017/164/EU).

| BMGV = Biological Monitoring Guidance Value (Biological Monitoring Guidelines 2011, HSA (Health and Safety Authority)):
ACGIH-BEI = BMGV have been sourced from Biological Exposure Indices (BEI) as issued by the American Conference of
Governmental Industrial Hygienists (ACGIH). SCOEL = BMGV have been sourced from the Scientific Committee on Occupational
Exposure Limit Values (SCOEL) which was set up by a Commission Decision (95/320/EC) with the mandate to advise the European
Commission on occupational exposure limits for chemicals in the workplace. HSE = BMGV have been sourced from the Health and
Safety Executive (HSE), UK.

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

| Other information (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE).

- Malta | OELV-8h = Occupational Exposure Limit Value 8 h (8-hour reference period as a time-weighted average) [S.L.424.24, last amended by L.N. 356 of 2021]: [9] = Inhalable fraction, [10] = Respirable fraction.
  - (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | OELV-ST = Occupational Exposure Limit Value Short-term (15-minute reference period) [S.L.424.24, last amended by L.N. 356 of 2021]: [8] = Short-term exposure limit value in relation to a reference period of 1 minute, [9] = Inhalable fraction, [10] = Respirable fraction.
  - (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |
  - | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020), United Kingdom). (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information [S.L.424.24, last amended by L.N. 356 of 2021]: Skin = Possibility of a significant uptake through the skin. [11] = When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds. [12] = The mist is defined as the thoracic fraction. [13] = Established in accordance with the Annex to Directive 91/322/EEC. [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (EU14) = The substance can cause sensitisation of the skin (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.

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Eye/face protection:

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

If applicable

Face protection (EN 166).

Skin protection - Hand protection:

Use acid resistant protective gloves (EN ISO 374).

If applicable

Protective gloves in butyl rubber (EN ISO 374).

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374). Protective PVC gloves (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

Protective hand cream recommended.

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

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

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

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

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

#### 8.2.3 Environmental exposure controls

No information available at present.

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

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

Physical state: Liquid
Colour: Colourless
Odour: Characteristic

Melting point/freezing point:

Boiling point or initial boiling point and boiling range:

Flammability:

There is no information available on this parameter.

There is no information available on this parameter.

There is no information available on this parameter.

Lower explosion limit:

Upper explosion limit:

There is no information available on this parameter.

Auto-ignition temperature:

There is no information available on this parameter.

There is no information available on this parameter.

There is no information available on this parameter.

pH:

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

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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: 1,03 g/cm3

Relative vapour density:

There is no information available on this parameter.

Particle characteristics: Does not apply to liquids.

9.2 Other information

Corrosive to metals: Corrosive to aluminium and steel

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Product corrodes metals.

#### 10.2 Chemical stability

Stable with proper storage and handling.

#### 10.3 Possibility of hazardous reactions

Avoid contact with strong alkalis (exothermic reaction possible).

Avoid contact with certain metals e.g. aluminium (development of hydrogen gas possible).

#### 10.4 Conditions to avoid

None known

#### 10.5 Incompatible materials

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with certain metals e.g. aluminium.

Avoid contact with acid sensitive materials.

#### 10.6 Hazardous decomposition products

No decomposition when used as directed.

#### **SECTION 11: Toxicological information**

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

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

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			Vapours, calculated value
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			Dusts or mist, calculated value
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT- RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

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Myristyl dimethyl aminoxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>300-2000	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by oral route:	ATE	500	mg/kg			
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Risk of serious
damage/irritation:					Eye	damage to
					Irritation/Corrosion)	eyes.
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:				'	Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
,				typhimurium	Reverse Mutation	3
				71	Test)	
Germ cell mutagenicity:				Mammalian	Regulation (EC)	Negative
,					440/2008 B.17 (IN	3
					VITRO MAMMALIAN	
					CELL GENE	
					MUTATION TESTS	
					USING HPRT +	
					XPRT GENES)	
Germ cell mutagenicity:				Mouse	OECD 478 (Genetic	Negative
,·					Toxicology - Rodent	
					dominant Lethal Test)	
Carcinogenicity:				Rat	OECD 451	Negative
3, 1,					(Carcinogenicity	3
					Studies)	
Specific target organ toxicity -	NOEL	100	mg/kg	Rat	OECD 422	Negative
repeated exposure (STOT-			bw/d	1 10.1	(Combined Repeated	110 gam 1
RE), oral:			211, 4		Dose Tox. Study with	
. (=), 0.4					the	
					Reproduction/Develop	
					m. Tox. Screening	
					Test)	
Specific target organ toxicity -			+	Mouse	OECD 411	Negative
repeated exposure (STOT-					(Subchronic Dermal	1.1394.110
RE), dermal:					Toxicity - 90-day	
					Study)	

2-Butoxyethanol	2-Butoxyethanol							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	ATE	1200	mg/kg					
Acute toxicity, by dermal route:	LD50	2275	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)			
Acute toxicity, by inhalation:	ATE	3	mg/l			Vapours		
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Aerosol		
Skin corrosion/irritation:				Rabbit	Regulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORRO SION)	Skin Irrit. 2, Product removes fat.		
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)		

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Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:				Rat	OECD 451 (Carcinogenicity Studies)	Negative
Carcinogenicity:	NOAEC	125	ppm	Mouse	OECD 451 (Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAEL	720	mg/kg bw/d			
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	<69	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	>150	mg/kg bw/d	Rabbit	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	
Aspiration hazard:					• ,	No
Symptoms:						acidosis, ataxia, breathing difficulties, respiratory distress, drowsiness, unconsciousnes s, annoyance, coughing, headaches, gastrointestinal disturbances, insomnia, mucous membrane irritation, dizziness, nausea

Phosphoric acid							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	ATE	500	mg/kg				
Acute toxicity, by oral route:	LD50	300-2000	mg/kg	Rat	OECD 423 (Acute		
					Oral Toxicity - Acute		
					Toxic Class Method)		
Skin corrosion/irritation:				Rabbit		Skin Corr. 1B	
Serious eye				Rabbit		Eye Dam. 1	
damage/irritation:							

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Germ cell mutagenicity:	Salmonella	OECD 471 (Bacterial	Negative
	typhimurium	Reverse Mutation	
		Test)	
Germ cell mutagenicity:		OECD 473 (In Vitro	Negative
		Mammalian	
		Chromosome	
		Aberration Test)	
Germ cell mutagenicity:	Mouse	OECD 476 (In Vitro	Negative
		Mammalian Cell Gene	
		Mutation Test)	
Symptoms:			respiratory
			distress,
			vomiting,
			coughing,
			collapse,
			cramps,
			mucous
			membrane
			irritation, shock

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	648,7	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	The toxicity is determined by the corrosivity of the product.
Acute toxicity, by oral route:	ATE	648,7	mg/kg			•
Acute toxicity, by dermal route:	ATE	1100	mg/kg			
Acute toxicity, by dermal route:	LD50	>1000-<2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	The toxicity is determined by the corrosivity of the product.
Acute toxicity, by inhalation:	LC50	1,1-1,4	mg/l/6h	Rat		
Skin corrosion/irritation:				Rabbit	(Draize-Test)	Skin Corr. 1B
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:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Reproductive toxicity:	NOAEL	>=1000	mg/kg bw/d	Rat	OECD 421 (Reproduction/Develop mental Toxicity Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	1805	mg/kg	Rat	,	

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Symptoms:		asthmatic
		symptoms,
		respiratory
		distress,
		burning of the
		membranes of
		the nose and
		throat, cornea
		opacity,
		coughing,
		headaches,
		dizziness,
		nausea and
		vomiting.

Glycerol Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	Tool motiled	110100
Acute toxicity, by dermal route:	LD50	>10000	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit	IUCLID Chem. Data Sheet (ESIS)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:	NOAEL	2000	mg/kg/d		,	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	3,91	mg/l	Rat		(14d)
Aspiration hazard:						Negative
Symptoms:						abdominal pain, drowsiness, diarrhoea, vomiting, headaches, mucous membrane irritation, nausea

#### 11.2. Information on other hazards

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

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#### **SECTION 12: Ecological information**

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

Possibly more information Boat Descaling Wash Art.: 518999	on on environin	ierilai eneci	13, SEE 3EC	uon Z. I (Cla	assilloaliUH).		
	Endneint	Time	Value	I Init	Organism	Toot mothed	Notes
Toxicity / effect	Endpoint	Time	value	Unit	Organism	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.
12.2. Persistence and							The
degradability:							surfactant(s)
							contained in
							this mixture
							complies(comp
							y) with the
							biodegradabilit
							criteria as laid
							down in
							Regulation
							(EC)
							No.648/2004
							on detergents.
							Data to suppor
							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.
12.7. Other adverse	+		+				No information
effects:							available on
อแอบเอ.							
							other adverse
							effects on the
04 17 3							environment.
Other information:							DOC-
							elimination
							degree(comple
							ing organic
							substance)>=
							80%/28d: n.a.

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Other information:	AOX	%	)		According to
l l					the recipe,
l l					contains no
					AOX.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1-10	mg/l	Brachydanio rerio	OECD 203	
						(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	>1-10	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	>0,1-1	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and						OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle	
						Test)	
12.2. Persistence and		28d	67,5	%	activated sludge	OECD 301 B	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
	ļ. <u>-</u>					Test)	
12.3. Bioaccumulative	Log Pow		2,7				calculated value
potential:							
12.3. Bioaccumulative							Not to be
potential:							expected
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

2-Butoxyethanol Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1474	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	THE LOCAL PROPERTY OF THE PARTY
12.1. Toxicity to fish:	NOEC/NOEL	21d	>100	mg/l	Brachydanio rerio	OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)	
12.1. Toxicity to daphnia:	EC50	48h	1550	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	100	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	1840	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	286	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	

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12.2. Persistence and		28d	95	%		OECD 301 E	Readily
degradability:						(Ready Biodegradability - Modified OECD	biodegradable
						Screening Test)	
12.2. Persistence and degradability:		28d	>99	%		OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		3,2			,	Slight
12.3. Bioaccumulative potential:	Log Pow		0,81			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Not to be expected
12.4. Mobility in soil:	H (Henry)		0,00000 16	atm*m3/ mol		,	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	16h	>700	mg/l	Pseudomonas putida	DIN 38412 T.8	

Phosphoric acid							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	3,0 - 3,25	mg/l	Lepomis macrochirus		
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:						,	Not relevant for inorganic substances.

Methanesulphonic aci	Methanesulphonic acid							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:	LC50	96h	73	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)		
12.1. Toxicity to daphnia:	EC50	48h	70	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)		
12.1. Toxicity to algae:	EC50	96h	7,2-20	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)		

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12.2. Persistence and degradability:		10d	84	%		OECD 301 F (Ready	
aog.adabiiity.						Biodegradability -	
						Manometric	
						Respirometry	
						Test)	
12.2. Persistence and		28d	90-100	%		OECD 301 A	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						DOC Die-Away	
						Test)	
12.3. Bioaccumulative	Log Pow		-2,38				Not to be
potential:							expectedcaculat
<del></del>	5050		1000		6 ( ) 1	OFOD 000	ed
Toxicity to bacteria:	EC50	30min	>1000	mg/l	activated sludge	OECD 209	
						(Activated	
						Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	

Glycerol	For the select	T:	Malara	1111	0	Table made and	Nata
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	> 5000	mg/l	Carassius		
					auratus		
12.1. Toxicity to	EC50	48h	>10000	mg/l	Daphnia magna		
daphnia:							
12.1. Toxicity to	EC5	72h	3200	mg/l			Entosiphon
daphnia:							sulcatum
12.1. Toxicity to algae:	EC50		2900	mg/l	Chlorella vulgaris		
12.2. Persistence and degradability:		14d	63	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	
12.2. Persistence and degradability:	BOD/COD		>60	%			
12.2. Persistence and	BOD5/COD		> 50	%			
degradability:	B0B0/00B		- 00	/0			
12.2. Persistence and	DOC		>70	%			Readily
degradability:	500			/0			biodegradable
12.2. Persistence and	BOD5		0,87	g/g			biodogradabio
degradability:	5050		0,07	9'9			
12.2. Persistence and	COD		1,16	g/g			
degradability:	002		.,	9 9			
12.3. Bioaccumulative potential:	Log Pow		-1,75			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Bioaccumulatio n is unlikely (LogPow < 1).
12.5. Results of PBT						,	No PBT
and vPvB assessment							substance, No vPvB substance
Toxicity to bacteria:	EC5	16h	> 10000	mg/l	Pseudomonas putida		

#### **SECTION 13: Disposal considerations**

### KochChemie<sup>®</sup> ExcellenceForExperts.

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#### 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.

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

Uncontaminated packaging can be recycled.

#### **SECTION 14: Transport information**

1760

3

#### **General statements**

#### Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1760 CORROSIVE LIQUID, N.O.S. (METHANESULFONIC ACID, PHOSPHORIC ACID)

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards: Not applicable

Tunnel restriction code: E
Classification code: C9
LQ: 5 L

Transport category:

Transport by sea (IMDG-code)

14.1. UN number or ID number: 1760

14.2. UN proper shipping name:

UN 1760 CORROSIVE LIQUID, N.O.S. (METHANESULFONIC ACID, PHOSPHORIC ACID)

14.3. Transport hazard class(es):
8
14.4. Packing group:
III

14.5. Environmental hazards:

Not applicable

IMDG Code segregation group 1 - Acids

Marine Pollutant:

EmS:

Not applicable
F-A, S-B

Transport by air (IATA)

14.1. UN number or ID number: 1760

14.2. UN proper shipping name:

UN 1760 Corrosive liquid, n.o.s. (METHANESULFONIC ACID, PHOSPHORIC ACID)

14.3. Transport hazard class(es):

8
14.4. Packing group:

III

14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

#### 14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.









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Danger code and packing code on request.

Comply with special provisions.

#### **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 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):

~ 5,37 %

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

5 % or over but less than 15 % cationic surfactants less than 5 % phosphates

perfumes CITRAL LIMONENE

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

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

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

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

Revised sections:

2

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Eye Dam. 1, H318	Classification based on the pH value.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
Met. Corr. 1, H290	Classification based on test data.
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.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H312 Harmful 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.

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H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Eye Dam. — Serious eye damage

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Met. Corr. — Substance or mixture corrosive to metals

Skin Corr. — Skin corrosion Acute Tox. — Acute toxicity - oral

Skin Irrit. — Skin irritation

Aquatic Acute — Hazardous to the aquatic environment - acute

Acute Tox. — Acute toxicity - inhalation

Eye Irrit. — Eye irritation

Acute Tox. — Acute toxicity - dermal

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

#### Key literature references and sources for data:

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

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

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

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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

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

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

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

#### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

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

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

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

EbCx, EyCx, EbLx ( $\dot{x}$  = 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

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

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ΕN **European Norms** 

EPA United States Environmental Protection Agency (United States of America)

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

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

IARC International Agency for Research on Cancer

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

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

**IUCLIDInternational Uniform Chemical Information Database** 

IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Logarithm of adsorption coefficient of organic carbon in the soil Log Koc

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

**Limited Quantities** LQ

MARPOL International Convention for the Prevention of Marine Pollution from Ships

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight

n.a. not applicable n.av. not available not checked n.c. n.d.a. no data available

NIOSHNational Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PΕ Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

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

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

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

SVHC Substances of Very High Concern

Telephone Tel.

Total organic carbon TOC

**UN RTDG** United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

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

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