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

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

1.1 Product identifier

Hull preCleaner acid Art.: 512999

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:

(RL)

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 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.

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 %	10-<25
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

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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 %	5-<10
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

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

Myristyl dimethyl aminoxide	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	222-059-3
CAS	3332-27-2
content %	2,5-<5
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

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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

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

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person! **Inhalation** Remove person from danger area.

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

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately and call a doctor. Have Data Sheet available. 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. Risk of serious damage to eyes. Corneal damage. Danger of blindness. pain in the mouth and throat stomach pain 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 Adapt to the nature and extent of fire.

Water jet spray/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 carbon Oxides of nitrogen Oxides of phosphorus 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.

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Keep unprotected persons away. 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.

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, sawdust) 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.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with alkalis.

Acid-resistant floor necessary.

Do not use acid sensitive materials.

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

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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	

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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	Short term, local effects	DNEL	2	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	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	2,92	mg/m3	

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,012	mg/l	
	Environment - marine		PNEC	0,0012	mg/l	
	Environment - water,		PNEC	0,12	mg/l	
	sporadic (intermittent)					
	release					
	Environment - sediment,		PNEC	0,0251	mg/kg	
	freshwater				00	
	Environment - soil		PNEC	0,00183	mg/kg	
	Environment - sewage		PNEC	100	mg/l	
	treatment plant				C C	
	Environment - sediment,		PNEC	0,0044	mg/kg	
	marine				00	
Consumer	Human - dermal	Long term, systemic	DNEL	8,33	mg/kg	
		effects			00	
Consumer	Human - inhalation	Long term, systemic	DNEL	1,44	mg/m3	
		effects		· ·	0	
Consumer	Human - inhalation	Short term, systemic	DNEL	1,44	mg/m3	
		effects		· ·	0	
Consumer	Human - inhalation	Long term, local	DNEL	0,42	mg/m3	
		effects		· ·	0	
Consumer	Human - oral	Long term, systemic	DNEL	8,33	mg/kg	
		effects			0.0	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	6,76	mg/m3	
		effects		· ·	J	
Workers / employees	Human - inhalation	Long term, local	DNEL	0,7	mg/m3	
		effects		· ·	J	
Workers / employees	Human - dermal	Long term, systemic	DNEL	19,44	mg/kg	
1 - 2		effects			5 5	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	8,8	mg/l	
	Environment - marine		PNEC	0,88	mg/l	
	Environment - sediment, freshwater		PNEC	34,6	mg/kg dw	

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	Environment - soil		PNEC	2,8	mg/kg dw
	Environment - sewage		PNEC	463	mg/l
	treatment plant				
	Environment - sediment,		PNEC	3,46	mg/kg dw
	marine				
	Environment - sporadic		PNEC	9,1	mg/l
	(intermittent) release				
	Environment - soil		PNEC	2,33	mg/kg
	Environment - oral (animal		PNEC	20	mg/kg
	feed)				
Consumer	Human - inhalation	Long term, local effects	DNEL	123	mg/m3
Consumer	Human - dermal	Short term, systemic	DNEL	44,5	mg/kg
Consumer	Human - German	effects	DINEL	44,5	bw/d
Canadian			DNEL	400	
Consumer	Human - inhalation	Short term, systemic	DNEL	426	mg/m3
0		effects	DNE	40.4	
Consumer	Human - oral	Short term, systemic effects	DNEL	13,4	mg/kg bw/d
0			DNEL	4.47	
Consumer	Human - inhalation	Short term, local effects	DNEL	147	mg/m3
Consumer	Human - dermal	Long term, systemic	DNEL	38	mg/kg
		effects			bw/d
Consumer	Human - inhalation	Long term, systemic	DNEL	49	mg/m3
		effects			5
Consumer	Human - oral	Long term, systemic	DNEL	3,2	mg/kg
		effects			bw/d
Workers / employees	Human - dermal	Short term, systemic	DNEL	89	mg/kg
		effects			bw/d
Workers / employees	Human - inhalation	Short term, systemic	DNEL	663	mg/m3
		effects			3
Workers / employees	Human - inhalation	Short term, local	DNEL	246	mg/m3
a a a a a a a a a a a a a a a a a a a		effects			3
Workers / employees	Human - dermal	Long term, systemic	DNEL	75	mg/kg
		effects			bw/d
Workers / employees	Human - inhalation	Long term, systemic	DNEL	98	mg/m3
		effects			

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,034	mg/l	
	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/Ī	
	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	

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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	

Inited Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)). (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

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 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, 2019/1831/EU or 2024/869/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

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- 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, 2019/1831/EU or

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:

(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), (EU15) = Substantial contribution to the total body burden via dermal exposure possible.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

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

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and 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). 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). Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes: > 480 The breakthrough times determined in accordance with EN 16523.1 w

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.

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Protective hand cream recommended.

Skin protection - Other: Acid-resistant protection clothing (EN 13034)

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

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

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

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to 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:	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:	0-1
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:	1,09 g/ml
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:	There is no information available on this parameter

Corrosive to metals:

There is no information available on this parameter.

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

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See also section 7. 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

See also section 5.2

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).

Hull preCleaner acid						
Art.: 512999						
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			calculated value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated value, Aerosol
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-						n.d.a.
RE): Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

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:						
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation	-
					Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	

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Germ cell mutagenicity:	Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Symptoms:			respiratory distress, vomiting, coughing, collapse, cramps, mucous membrane irritation, shock

Methanesulphonic acid 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		
Symptoms:						asthmatic symptoms, respiratory distress, burning of the membranes of the nose and throat, cornea opacity, coughing, headaches, dizziness, nausea and vomiting.
2-Butoxyethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes

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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				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
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

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Symptoms:			acidosis,
			ataxia,
			breathing
			difficulties,
			respiratory
			distress,
			drowsiness,
			unconsciousnes
			s, annoyance,
			coughing,
			headaches,
			gastrointestinal
			disturbances,
			insomnia,
			mucous
			membrane
			irritation,
			dizziness,
			nausea

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	
					Test)	
Germ cell mutagenicity:				Mammalian	Regulation (EC)	Negative
					440/2008 B.17 (IN	
					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
					(Carcinogenicity	
					Studies)	
Specific target organ toxicity -	NOEL	100	mg/kg	Rat	OECD 422	Negative
repeated exposure (STOT-			bw/d		(Combined Repeated	
RE), oral:					Dose Tox. Study with	
					the	
					Reproduction/Develop	
					m. Tox. Screening	
					Test)	
Specific target organ toxicity -				Mouse	OECD 411	Negative
repeated exposure (STOT-					(Subchronic Dermal	-
RĖ), dermal:					Toxicity - 90-day	
					Study)	

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11.2. Information on other hazards

Hull preCleaner acid						
Art.: 512999						
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.

SECTION 12: Ecological information

Art: 512999 Time Value Unit Organism Test method Notes 12.1. Toxicity to fish: n.d.a. d.a. 12.1. Toxicity to daphnia: n.d.a. d.a. 12.1. Toxicity to algae: n.d.a. d.a. 12.1. Toxicity to algae: n.d.a. d.a. 12.2. Persistence and degradability: degradability: <th>Possibly more information</th> <th>on on environm</th> <th>ental effect</th> <th>s, see Sect</th> <th>ion 2.1 (cla</th> <th>ssification).</th> <th></th> <th></th>	Possibly more information	on on environm	ental effect	s, see Sect	ion 2.1 (cla	ssification).		
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Other information: AOX % ing organic substance)>= 80%/28d: n.a. Other information: AOX % According to the recipe,								
Other information: AOX % substance)>= 80%/28d: n.a. Other information: AOX % According to the recipe,								
Other information: AOX % According to the recipe,								
Other information: AOX % According to the recipe,								
the recipe,	Other information:	AOX			%			
					70			
								contains no
AOX.								

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Phosphoric acid	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.		

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

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)	

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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)	
12.2. Persistence and degradability:		28d	95	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	Readily biodegradable
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	

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)	

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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	
						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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

20 01 29 detergents containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

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:	1760	
14.2. UN proper shipping name:		
UN 1760 CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID, M	IETHANESULFONIC ACID)	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
14.5. Environmental hazards:	Not applicable	
Tunnel restriction code:	E	
Classification code:	C9	
LQ:	1 L	
Transport category:	2	
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. (PHOSPHORIC ACID, M	IETHANESULFONIC ACID)	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
14.5. Environmental hazards:	Not applicable	

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Marine Pollutant:	Not applicable				
EmS: Segregation:	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. (PHOSPHORIC ACID, METHAN					
14.3. Transport hazard class(es): 14.4. Packing group:					
14.5. Environmental hazards:	Not applicable				
14.6. Special precautions for user					
Persons employed in transporting dangerous goods must be train All persons involved in transporting must observe safety regulation Precautions must be taken to prevent damage.					
14.7. Maritime transport in bulk according to IMC) instruments				
Freighted as packaged goods rather than in bulk, therefore not ap					
Minimum amount regulations have not been taken into account. Danger code and packing code on request.					
Comply with special provisions.					
SECTION 15: Regulatory information					
15.1 Safety, health and environmental regulation	s/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 protect	ion (national implementation of the Directive 02/85/EEC)				
Comply with trade association/occupational health regulations.					
Directive 2010/75/EU (VOC):	5 %				
REGULATION (EC) No 648/2004					
5 % or over but less than 15 %					
phosphates less than 5 %					
cationic surfactants					
National rules/regulation for the compliance with maximum quanti	ties 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: 0	ther information				
Revised sections: Employee training in handling dangerous goods is required.	8				
These details refer to the product as it is delivered.					
Employee instruction/training in handling hazardous materials is re	equired.				
Classification and processes used to derive the	classification of the mixture in accordance with				
the ordinance (EG) 1272/2008 (CLP):					

Oleonification in accordance with regulation	Evelvetion mathead wood
Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	

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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. H319 Causes serious eye irritation. 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 Acute Tox. — Acute toxicity - dermal STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Acute Tox. — Acute toxicity - inhalation Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation Aquatic Acute — Hazardous to the aquatic environment - acute

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

GBIRI Page 22 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 16.12.2024 / 0006 Replacing version dated / version: 11.03.2024 / 0005 Valid from: 16.12.2024 PDF print date: 16.12.2024 Hull preCleaner acid Art.: 512999 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 (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community European Inventory of Existing Commercial Chemical Substances EINECS ELINCS European List of Notified Chemical Substances EN European Norms EPA United States Environmental Protection Agency (United States of America) 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 Koc Adsorption coefficient of organic carbon in the soil Kow octanol-water partition coefficient IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) International Maritime Code for Dangerous Goods IMDG-code 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 dry weight mg/kg dw mg/kg wwt mg/kg wet weight not applicable n.a. 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 PE 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)

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

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

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

These statements were made by:

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