- GB (RL M)-

Page 1 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

### 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

### ProtectorWax Art.: 319999

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

Drying agent

#### **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 classHazard categoryHazard statementAcute Tox.4H332-Harmful if inhaled.

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

Eye Dam. 1 H318-Causes serious eye damage.

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

#### 2.2 Label elements

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

- GB (RL M

Page 2 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999



H332-Harmful if inhaled. H314-Causes severe skin burns and eye damage. H412-Harmful to aquatic life with long lasting effects.

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

P260-Do not breathe vapours or spray. 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.

P405-Store locked up.

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

EUH208-Contains Cinnamaldehyde. May produce an allergic reaction.

#### 2-Butoxyethanol

Acetic acid

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)

Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, methoxy-terminated

#### 2.3 Other hazards

The mixture contains a vPvB substance (vPvB = very persistent, very bioaccumulative).

The mixture contains a PBT substance (PBT = persistent, bioaccumulative, toxic).

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

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 %	20-<30	
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	

- GB (RL M)-

Page 3 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

SILICONE QUATERNIUM-17	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	519142-86-0
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Aquatic Chronic 2, H411
factors	

Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, methoxy-terminated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	102782-92-3
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Corr. 1B, H314
factors	Eye Dam. 1, H318
	Aquatic Chronic 3, H412

2-(2-butoxyethoxy)ethanol Substance for which an EU exposure limit applies.	
Registration number (REACH)	01-2119475104-44-XXXX
Index	603-096-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	203-961-6
CAS	112-34-5
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Eye Irrit. 2, H319
factors	

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-,	
diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates	
(salts)	
Registration number (REACH)	01-2119983493-26-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	939-685-4
CAS	
content %	3-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Irrit. 2, H315
factors	Eye Dam. 1, H318
	Aquatic Chronic 3, H412

Acetic acid	Substance for which an EU exposure limit value	
	applies.	
Registration number (REACH)	01-2119475328-30-XXXX	
Index	607-002-00-6	
EINECS, ELINCS, NLP, REACH-IT List-No.	200-580-7	
CAS	64-19-7	
content %	1-<2,5	
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 3, H226	
factors	Skin Corr. 1A, H314	
	Eye Dam. 1, H318	
Specific Concentration Limits and ATE	Skin Corr. 1A, H314: >=90 %	
	Skin Corr. 1B, H314: >=25 %	
	Skin Irrit. 2, H315: >=10 %	
	Eye Irrit. 2, H319: >=10 %	

Ethanol		
Registration number (REACH)	01-2119457610-43-XXXX	

- GB (RL) M

Page 4 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

Index	603-002-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	200-578-6
CAS	64-17-5
content %	<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 2, H225
factors	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	Eye Irrit. 2, H319: >=50 %

Octamethylcyclotetrasiloxane	PBT-substance vPvB-substance SVHC-substance
Registration number (REACH)	01-2119529238-36-XXXX
Index	014-018-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	209-136-7
CAS	556-67-2
content %	0,01-<0,1
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 3, H226
factors	Repr. 2, H361f
	Aquatic Chronic 1, H410 (M=10)

Cinnamaldehyde		
Registration number (REACH)		
Index	606-155-00-6	
EINECS, ELINCS, NLP, REACH-IT List-No.	203-213-9	
CAS	104-55-2	
content %	0,001-<0,01	
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 4, H312	
factors	Skin Irrit. 2, H315	
	Eye Irrit. 2, H319	
	Skin Sens. 1A, H317	
	Aquatic Chronic 3, H412	
Specific Concentration Limits and ATE	Skin Sens. 1, H317: >=0,01 %	
	ATE (dermal): 1100 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.

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

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a 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.

- GB (RL) M

Page 5 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

#### 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.

Conjunctivitis

Corneal damage.

Danger of blindness.

Ingestion:

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

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 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.

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.

- GB (RL M)-

Page 6 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

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.

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.

Observe special storage conditions.

Under all circumstances prevent penetration into the soil.

Store in a well ventilated place.

Store cool.

#### 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		
WEL-TWA: 25 ppm (123 mg/m	3) (WEL-TWA), WEL-STEL: 50 ppm (246 mg/m3) (WEL-STEL,		
20 ppm (98 mg/m3) (EU)	EU)		
Monitoring procedures: - Compur - KITA-190 U(C) (548 873)			
	DFG MethNr. 2 (D) (Loesungsmittelgemische 3), DFG (E) (Solvent mixtures 3) -		
- 2014, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 32-2 (2004)			
- NIOSH 1403 (ALCOHOLS IV) - 2003			
- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996			
- OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) - 1990			
BMGV: 240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV) Other information: Sk (WEL)			
Chemical Name	2-Butoxyethanol		

GB (RL) (M Page 7 of 31 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.08.2024 / 0006 Replacing version dated / version: 11.03.2024 / 0005 Valid from: 08.08.2024 PDF print date: 08.08.2024 **ProtectorWax** Art.: 319999 OELV-8h: 20 ppm (98 mg/m3) (OELV-8h, EU) OELV-15min: 50 ppm (246 mg/m3) (OELV-15min, EU) Compur - KITA-190 U(C) (548 873) Monitoring procedures: DFG Meth.-Nr. 2 (D) (Loesungsmittelgemische 3), DFG (E) (Solvent mixtures 3) -2014, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 32-2 (2004) NIOSH 1403 (ALCOHOLS IV) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) - 1990 BLV: 200 mg/g creatinine (Butoxyacetic acid (BAA) in urine, h) (ACGIH-BEI) Other information: Sk, IOELV Chemical Name 2-Butoxvethanol OELV-8h: 20 ppm (98 mg/m3) (OELV-8h, EU) 50 ppm (246 mg/m3) (OELV-ST, EU) Monitoring procedures: Compur - KITA-190 U(C) (548 873) DFG Meth.-Nr. 2 (D) (Loesungsmittelgemische 3), DFG (E) (Solvent mixtures 3) -2014, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 32-2 (2004) NIOSH 1403 (ALCOHOLS IV) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) - 1990 BMGV: 240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV) Skin Other information: © Chemical Name 2-(2-butoxyethoxy)ethanol WEL-TWA: 10 ppm (67,5 mg/m3) (WEL-TWA, WEL-STEL: 15 ppm (101,2 mg/m3) (WEL-STEL, EU) Monitoring procedures: BMGV: Other information: Chemical Name 2-(2-butoxyethoxy)ethanol OELV-8h: 10 ppm (67,5 mg/m3) (OELV-8h, EU) OELV-15min: 15 ppm (101,2 mg/m3) (OELV-15min, EU) Monitoring procedures: Other information: BLV: IOELV Chemical Name 2-(2-butoxyethoxy)ethanol 15 ppm (101,2 mg/m3) (OELV-ST, OELV-8h: 10 ppm (67,5 mg/m3) (OELV-8h, EU) OELV-ST: EU) Monitoring procedures: Other information: BMGV: <sup>⊕</sup> Chemical Name Acetic acid WEL-TWA: 10 ppm (25 mg/m3) (WEL-TWA, EU) WEL-STEL: 20 ppm (50 mg/m3) (WEL-STEL, EU) Monitoring procedures: Draeger - Acetic Acid 5/a (67 22 101) Compur - KITA-216 S (549 194) NIOSH 1603 (Acetic acid in workplace atmospheres) - 1994 OSHA PV2119 (Acetic acid) - 2003 - EU project BC/CEN/ENTR/000/2002-16 card 64-5 (2004) BMGV: ---Other information: Chemical Name Acetic acid OELV-8h: 10 ppm (25 mg/m3) (OELV-8h, EU) OELV-15min: 20 ppm (50 mg/m3) (OELV-15min, EU) Monitoring procedures: Draeger - Acetic Acid 5/a (67 22 101) Compur - KITA-216 S (549 194) NIOSH 1603 (Acetic acid in workplace atmospheres) - 1994 OSHA PV2119 (Acetic acid) - 2003 - EU project BC/CEN/ENTR/000/2002-16 card 64-5 (2004) BLV: ---Other information: IOELV Chemical Name Acetic acid OELV-8h: 10 ppm (25 mg/m3) (OELV-8h, EU) OELV-ST: 20 ppm (50 mg/m3) (OELV-ST, EU) Monitoring procedures: Draeger - Acetic Acid 5/a (67 22 101) Compur - KITA-216 S (549 194) NIOSH 1603 (Acetic acid in workplace atmospheres) - 1994

GB (RL M)—

Page 8 of 31 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

- card 64-5 (2004)			
BMGV:	Other in	formation:	
© Chemical Name Ethan	ol		
WEL-TWA: 1000 ppm (1920 mg/m3)	WEL-STEL:		
Monitoring procedures:	- Draeger - Alcohol 25/a Ethanol (81 01 63	- Draeger - Alcohol 25/a Ethanol (81 01 631)	
- Compur - KITA-104 SA (549 210)			
DFG (D) (Loesungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) -			
<ul> <li>2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004)</li> </ul>			
DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2013 - EU project			
- BC/CEN/ENTR/000/2002-16 card 63-2 (2004)			
DFG Meth. Nr. 3 (D) (Loesungsmittelgemische) - 2013 - EU project			
- BC/CEN/ENTR/000/2002-16 card 63-2 (2004)			
BMGV:	Other in	formation:	

OSHA PV2119 (Acetic acid) - 2003 - EU project BC/CEN/ENTR/000/2002-16

Chemical Name	Ethanol						
OELV-8h: 1000 ppm		OELV-15min:					
Monitoring procedures:	-	Draeger - Alcohol 25/a Ethanol (81 01 631)					
	-	Compur - KITA-104 SA (549 210)					
	DFG (D) (Loesungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures)						
	-	2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 c	ard 63-2 (2004)				
		DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2013	- EU project				
	-	BC/CEN/ENTR/000/2002-16 card 63-2 (2004)					
		DFG Meth. Nr. 3 (D) (Loesungsmittelgemische) - 2013	- EU project				
	-	BC/CEN/ENTR/000/2002-16 card 63-2 (2004)					
BLV:		Other information: -					

2-Butoxyethanol Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
ти от от аррионион	Environmental		r			
	compartment					
	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	

- GB (RL M)-

Page 9 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

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				
Workers / employees	Human - inhalation	Short term, local	DNEL	246	mg/m3	
		effects				
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 / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - marine		PNEC	0,11	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	11	mg/l	
	Environment - sediment, freshwater		PNEC	4,4	mg/kg	
	Environment - sediment, marine		PNEC	0,44	mg/kg	
	Environment - soil		PNEC	0,32	mg/kg	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - oral (animal feed)		PNEC	56	mg/kg	
	Environment - freshwater	Short term, local	PNEC	1,1	mg/l	
Consumer			DNEL	7,5	mg/m3	
Consumer	nsumer Human - dermal		DNEL	10	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	40,5	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,25	mg/kg bw/d	
Consumer	Human - inhalation	Long term, local effects	DNEL	5	mg/m3	
Workers / employees	Human - oral	Long term, local effects	DNEL	67,5	mg/m3	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	67,5	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	20	mg/kg	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	101,2	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	67,5	mg/m3	

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)

-GB (RL M)-

Page 10 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,017	mg/l	
	Environment - sediment, freshwater		PNEC	1,7	mg/kg dw	
	Environment - marine		PNEC	0,002	mg/l	
	Environment - sediment, marine		PNEC	0,17	mg/kg dw	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - soil		PNEC	0,331	mg/kg dw	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,17	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	56,25	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,25	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	8,72	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	112,5	mg/kg bw/d	

Acetic acid						
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	3,058	mg/l	
	Environment - marine		PNEC	0,3058	mg/l	
	Environment - periodic		PNEC	30,58	mg/l	
	release					
	Environment - sediment,		PNEC	11,36	mg/kg dry	
	freshwater				weight	
	Environment - sediment,		PNEC	1,136	mg/kg dry	
	marine				weight	
	Environment - soil		PNEC	0,478	mg/kg dry	
					weight	
	Environment - sewage		PNEC	85	mg/kg dry	
	treatment plant				weight	
Consumer	Human - inhalation	Short term, local	DNEL	25	mg/m3	
		effects				
Consumer	Human - inhalation	Long term, local	DNEL	25	mg/kg	
		effects				
Workers / employees	Human - inhalation	Short term, local	DNEL	25	mg/m3	
		effects				
Workers / employees	Human - inhalation	Long term, local	DNEL	25	mg/m3	
		effects				

Ethanol								
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note		
	Environmental		r					
	compartment							
	Environment - freshwater		PNEC	0,96	mg/l			
	Environment - marine		PNEC	0,79	mg/l			
	Environment - water,		PNEC	2,75	mg/l			
	sporadic (intermittent)							
	release							

-GB (RL M)-

Page 11 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005 Valid from: 08.08.2024

Valid from: 08.08.2024 PDF print date: 08.08.2024

	Environment - sewage treatment plant		PNEC	580	mg/l
	Environment - sediment, freshwater		PNEC	3,6	mg/kg dry weight
	Environment - soil		PNEC	0,63	mg/kg dry weight
	Environment - oral (animal feed)		PNEC	0,38	g/kg feed
	Environment - sediment, marine		PNEC	2,9	mg/kg dry weight
Consumer	Human - dermal	Short term, local effects	DNEL	950	mg/m3
Consumer	Human - inhalation	Long term, systemic effects	DNEL	114	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	87	mg/kg
Consumer	Human - dermal	Long term, systemic effects	DNEL	206	mg/kg bw/d
Consumer	Human - inhalation	Short term, local effects	DNEL	950	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	343	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	950	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1900	mg/m3

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
•	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	1,5	μg/l	
	Environment - sewage		PNEC	10	mg/l	
	treatment plant					
	Environment - soil		PNEC	0,54	mg/kg	
	Environment - sediment, freshwater		PNEC	3	mg/kg	
	Environment - marine		PNEC	0,15	μg/l	
	Environment - sediment, marine		PNEC	0,3	mg/kg	
	Environment - oral (animal feed)		PNEC	41	mg/kg feed	
Consumer	Human - oral	Short term, systemic effects	DNEL	3,7	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	3,7	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	13	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	13	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	13	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	13	mg/kg	
Workers / employees Human - inhalation		Short term, local effects	DNEL	73	mg/m3	
Workers / employees Human - inhalation		Short term, systemic effects	DNEL	73	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	73	mg/m3	

- GB (RL M)-

Page 12 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

١,							
	Workers / employees	Human - inhalation	Long term, systemic	DNEL	73	ma/m3	
Ш	Workers / Chiployess	Transaction	Long tom, byotomic		, 0	1119/1110	
			effects				
			enecis				

- 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)).
- (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 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

- GB (RL) M

Page 13 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

#### 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,  $\frac{2004}{37/EC}$ ,  $\frac{2006}{15/EC}$ ,  $\frac{2009}{161/EU}$ ,  $\frac{2017}{164/EU}$  or  $\frac{2019}{1831/EU}$ : (EU13) = The substance can cause sensitisation of the skin and of the respiratory tract ( $\frac{2004}{37/CE}$ ), (EU14) = The substance can cause sensitisation of the skin ( $\frac{2004}{37/CE}$ ).

#### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

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

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

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

These are specified by e.g. EN 14042.

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

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

#### Eye/face protection:

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective gloves made of butyl (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

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.

Protective hand cream recommended.

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.

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

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

- GB (RL) M

Page 14 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

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: Orange
Characterist

Odour: Characteristic Melting point/freezing point: There is no inf

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. 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.

·

Kinematic viscosity:

There is no information available on this parameter.
Solubility:

Soluble

Solubility: Solubration coefficient n-octanol/water (log value): Doe

Partition coefficient n-octanol/water (log value):

Vapour pressure:

Does not apply to mixtures.

There is no information available on this parameter.

Density and/or relative density: 0,97 g/cm3

Relative vapour density:

There is no information available on this parameter.

Particle characteristics: Does not apply to liquids.

#### 9.2 Other information

No information available at present.

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

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#### 10.1 Reactivity

The product has not been tested.

#### 10.2 Chemical stability

Stable with proper storage and handling.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

#### 10.4 Conditions to avoid

See also section 7.

None known

#### 10.5 Incompatible materials

See also section 7.

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

#### 10.6 Hazardous decomposition products

See also section 5.2

- GB (RL M)-

Page 15 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

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).

ProtectorWax	·					
Art.: 319999						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:	ATE	10,3	mg/l/4h			calculated
						value, Vapours
Acute toxicity, by inhalation:	ATE	1,7	mg/l/4h			calculated
						value, Aerosol
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-						
RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

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)
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

(B) (R) (M)

Page 16 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005 Valid from: 08.08.2024

PDF print date: 08.08.2024

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: Symptoms:						No acidosis, ataxia, breathing difficulties, respiratory distress, drowsiness, unconsciousnes s, annoyance, coughing, headaches, gastrointestinal disturbances, insomnia, mucous membrane irritation, dizziness,

Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, methoxy-terminated								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		Analogous conclusion		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Corr. 1B		
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1		

2-(2-butoxyethoxy)ethanol							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute		
					Oral Toxicity)		
Acute toxicity, by oral route:	LD50	2410	mg/kg	Mouse	OECD 401 (Acute	fasted animals	
					Oral Toxicity)		
Acute toxicity, by dermal	LD50	2764	mg/kg	Rabbit	OECD 402 (Acute		
route:					Dermal Toxicity)		
Acute toxicity, by inhalation:	LC50	>29	ppm	Rat	OECD 403 (Acute	Dusts or mist	
					Inhalation Toxicity)		

- GB (RL M)

Page 17 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005 Valid from: 08.08.2024

Valid from: 08.08.2024 PDF print date: 08.08.2024

Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal	Not irritant
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:					Eye	,
g-,					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
com con matagement.				typhimurium	Reverse Mutation	rioganio
				typriiritariani	Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
Germ cen matagementy.					Mammalian	Chinese
					Chromosome	hamster
						namster
0 " ' ' '				1.4	Aberration Test)	NI C
Germ cell mutagenicity:				Mouse	OECD 475	Negative
					(Mammalian Bone	
					Marrow Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	Chinese
					Mutation Test)	hamster
Reproductive toxicity:		1000	mg/kg	Rat	OECD 414 (Prenatal	Negative,
,					Developmental	Analogous
					Toxicity Study)	conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	250	mg/kg	Rat		
Specific target organ toxicity -	NOAEL	< 200	mg/kg	Rat	OECD 411	Male
repeated exposure (STOT-			bw/d		(Subchronic Dermal	
RE), dermal:			311, 3		Toxicity - 90-day	
rtz), domai.					Study)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	14	ppm	Rat	Olddy	Vapours
Aspiration hazard:						No
Symptoms:						breathing
-7 1						difficulties,
						respiratory
						distress,
						diarrhoea,
						coughing,
						mucous
						membrane
						irritation,
						dizziness,
						watering eyes,
					<u> </u>	nausea

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Mouse	OECD 423 (Acute		
• •					Oral Toxicity - Acute		
					Toxic Class Method)		
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute		
route:					Dermal Toxicity)		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2	
					Dermal		
					Irritation/Corrosion)		

- GB (RL M)-

Page 18 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

Serious eye				Rabbit	OECD 405 (Acute	Eye Dam. 1
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig		Not sensitizising
sensitisation:						
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative,
					Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 414 (Prenatal	Analogous
			bw/d		Developmental	conclusion
					Toxicity Study)	
Specific target organ toxicity -	NOAEL	500	mg/kg	Rat	OECD 407 (Repeated	
repeated exposure (STOT-					Dose 28-Day Oral	
RE), oral:					Toxicity Study in	
					Rodents)	
Symptoms:						gastrointestinal
						disturbances

Acetic acid							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	3310	mg/kg	Rat			
Acute toxicity, by inhalation:	LC50	11,4	mg/l/4h	Rat			
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Corrosive, Eye Dam. 1	
Respiratory or skin sensitisation:						Not sensitizising	
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative	
Carcinogenicity:					·	Negative	
Symptoms:						acidosis, respiratory distress, burning of the membranes of the nose and throat, diarrhoea, disturbed heart rhythm, cornea opacity, cramps, circulatory collapse, stomach cramps, shock, nausea and vomiting.	

Ethanol

- GB (RL M)-

Page 19 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	10470	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	51-124,7	mg/l/4h	Rat	OECD 403 (Acute	Vapours
riouto toxiony, by initialation.	2000	02.,,	1119/1/11	- Tun	Inhalation Toxicity)	rapouro
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
OKIT COTTOSION/ITTRACION.				Rabbit	Dermal	Not iiiitaiit
					Irritation/Corrosion)	
Cariatta				Dahhit		Fra lunit 0
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
,·				typhimurium	Reverse Mutation	
				туринианан	Test)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
Germ cen mutagemony.				INIOUSE		inegative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 475	Negative
,·					(Mammalian Bone	
					Marrow Chromosome	
					Aberration Test)	
Carcinogenicity:	NOAEL	>3000	mg/kg	Rat	OECD 451	24 mon
Carcinogenicity.	NOAEL	>3000	mg/kg	Rai		24 111011
					(Carcinogenicity	
5	110151	<b>5000</b>		<b>_</b>	Studies)	
Reproductive toxicity:	NOAEL	5200	mg/kg	Rat	OECD 416 (Two-	
			bw/d		generation	
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -	NOAL	>20	mg/l	Rat	OECD 403 (Acute	Male
repeated exposure (STOT-					Inhalation Toxicity)	
RE):					,,	
Specific target organ toxicity -	NOAEL	1730	mg/kg/d	Rat	OECD 408 (Repeated	Female
repeated exposure (STOT-	NONEL	1700	mg/kg/a	ı Kat	Dose 90-Day Oral	Tomale
` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `						
RE):					Toxicity Study in	
					Rodents)	
Symptoms:						respiratory
						distress,
						drowsiness,
						unconsciousn
						s, drop in bloo
						pressure,
						vomiting,
						coughing,
						headaches,
						intoxication,
						drowsiness,
						mucous
						membrane
						irritation,
						dizziness,
						nausea

- GB (RL M)

Page 20 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

Octamethylcyclotetrasiloxane							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	4800	mg/kg	Rat	OECD 401 (Acute		
					Oral Toxicity)		
Acute toxicity, by dermal	LD50	>2375	mg/kg	Rat	OECD 402 (Acute		
route:					Dermal Toxicity)		
Acute toxicity, by inhalation:	LC50	36	mg/l/4h	Rat	OECD 403 (Acute		
					Inhalation Toxicity)		
Skin corrosion/irritation:				Rat	OECD 404 (Acute	Not irritant	
					Dermal		
					Irritation/Corrosion)		
Serious eye				Rabbit	OECD 405 (Acute	Not irritant	
damage/irritation:					Eye		
					Irritation/Corrosion)		
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:				Mouse	OECD 476 (In Vitro	Negative	
					Mammalian Cell Gene		
					Mutation Test)		
Carcinogenicity:	NOAEL	150	mg/kg	Rat	OECD 453	inhalation	
					(Combined Chronic		
					Toxicity/Carcinogenicit		
					y Studies)		
Reproductive toxicity:	NOAEL			Rat	OECD 416 (Two-	Repr. 2	
					generation		
					Reproduction Toxicity		
					Study)		
Reproductive toxicity	NOAEL	300	ppm	Rat	OECD 414 (Prenatal		
(Developmental toxicity):					Developmental		
					Toxicity Study)		
Specific target organ toxicity -	NOAEL	960	mg/kg	Rabbit	OECD 410 (Repeated	(21 d)	
repeated exposure (STOT-			bw/d		Dose Dermal Toxicity -		
RE), dermal:					90-Day)		
Specific target organ toxicity -	NOAEC	150	mg/kg	Rat	OECD 453		
repeated exposure (STOT-					(Combined Chronic		
RE), inhalat.:					Toxicity/Carcinogenicit		
					y Studies)		

Cinnamaldehyde								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	2220	mg/kg	Rat				
Acute toxicity, by dermal	ATE	1100	mg/kg					
route:								
Skin corrosion/irritation:				Human being		Irritant		
Skin corrosion/irritation:				Guinea pig		Irritant		
Respiratory or skin				Guinea pig		Sensitising		
sensitisation:						(skin contact)		
Respiratory or skin				Human being	(Patch-Test)	Sensitising		
sensitisation:						(skin contact)		

#### 11.2. Information on other hazards

ProtectorWax Art.: 319999						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting						Does not apply
properties:						to mixtures.

- GB (RL M)-

Page 21 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

Other information:		No other
		relevant
		information
		available on
		adverse effects
		on health.

Ethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Other information:						Excessive
						alcohol
						consumption
						during
						pregnancy
						induces the
						foetus alcohol
						syndrome
						(reduced
						weight at birth,
						physical and
						mental
						disorders).,
						There is no
						sign that this
						syndrome is
						also caused by
						dermal or
						inhalative
						absorption.,
						Experiences on
						persons.

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

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

ProtectorWax							
Art.: 319999							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.

- GB (RL M)-

Page 22 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005 Valid from: 08.08.2024

Valid from: 08.08.2024 PDF print date: 08.08.2024

	_				
12.2. Persistence and					The
degradability:					surfactant(s)
9					contained in
					this mixture
					complies(compl
					y) with the
					biodegradability
					criteria as laid
					down in
					Regulation
					(EC)
					No.648/2004
					on detergents.
					Data to support
					this assertion
					are held at the
					disposal of the
					competent
					authorities of
					the Member
					States and will
					be made
					available to
					them, at their
					direct request
					or at the
					request of a
					detergent
					manufacturer.
12.3. Bioaccumulative					n.d.a.
					ii.a.a.
potential:					
12.4. Mobility in soil:					n.d.a.
12.5. Results of PBT					n.d.a.
and vPvB assessment					
					Dees not onally
12.6. Endocrine					Does not apply
disrupting properties:					to mixtures.
12.7. Other adverse					No information
effects:					available on
0110013.					
					other adverse
					effects on the
					environment.
Other information:					DOC-
					elimination
					degree(complex
					ing organic
					substance)>=
					000//004
	1.00				80%/28d: n.a.
Other information:	AOX		%		According to
					the recipe,
					contains no
					AOX.
					AUA.

2-Butoxyethanol										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to fish:	LC50	96h	1474	mg/l	Oncorhynchus	OECD 203				
-					mykiss	(Fish, Acute				
						Toxicity Test)				
12.1. Toxicity to fish:	NOEC/NOEL	21d	>100	mg/l	Brachydanio rerio	OECD 204				
•						(Fish, Prolonged				
						Toxicity Test -				
						14-Day Study)				

- GB (RL M)

Page 23 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005 Valid from: 08.08.2024

Valid from: 08.08.2024 PDF print date: 08.08.2024

12.1. Toxicity to	EC50	48h	1550	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp. Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to	NOEC/NOEL	21d	100	mg/l	Daphnia magna	OECD 211	
daphnia:						(Daphnia magna	
						Reproduction	
						Test)	
12.1. Toxicity to algae:	EC50	72h	1840	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	286	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		28d	95	%		OECD 301 E	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Modified OECD	
10.0 D		00.1		0/		Screening Test)	D 111
12.2. Persistence and		28d	>99	%		OECD 302 B	Readily
degradability:						(Inherent	biodegradable
						Biodegradability -	
						Zahn- Wellens/EMPA	
						Test)	
12.3. Bioaccumulative	BCF		3,2			1631)	Slight
potential:							
12.3. Bioaccumulative	Log Pow		0,81			OECD 107	Not to be
potential:						(Partition	expected
						Coefficient (n-	
						octanol/water) -	
						Shake Flask	
10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	11.01		0.0000			Method)	
12.4. Mobility in soil:	H (Henry)		0,00000	atm*m3/			
12.5. Results of PBT			16	mol			No PBT
and vPvB assessment							
and vevo assessment							substance, No vPvB
							substance
Toxicity to bacteria:	EC10	16h	>700	mg/l	Pseudomonas	DIN 38412 T.8	Substante
Toxiony to buotoria.		1011	7700	1119/1	putida	DII 1 00 7 12 1.0	

SILICONE QUATERNII	JM-17						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>10- 100	mg/l	Brachydanio rerio		
12.1. Toxicity to daphnia:	EC50	48h	>10- 100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.2. Persistence and degradability:							Not readily biodegradable

- GB (RL M)

Page 24 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

Toxicity to bacteria:	EC50	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and
					(Carbon and
					Ammonium
					Oxidation))

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and							Not readily
degradability:							biodegradable
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Other information:							Does not
							contain any
							organically
							bound
							halogens which
							can contribute
							to the AOX
							value in waste
							water.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1300	mg/l	Lepomis	OECD 203	
					macrochirus	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	>100	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
				,		Test)	
12.1. Toxicity to	NOEC/NOEL	48h	>=100	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
12.1. Toxicity to algae:	NOEC/NOEL	96h	>100		Desmodesmus	Test) OECD 201	
12.1. Toxicity to algae.	NOEC/NOEL	9011	>100	mg/l	subspicatus	(Alga, Growth	
					Subspicatus	Inhibition Test)	
12.2. Persistence and		28d	76	%		OECD 301 D	
degradability:		20u	10	/0		(Ready	
aogradaomiy.						Biodegradability -	
						Closed Bottle	
						Test)	
12.2. Persistence and		28d	100	%	activated sludge	OECD 302 B	Readily
degradability:						(Inherent	biodegradable
						Biodegradability -	_
						Zahn-	
						Wellens/EMPA	
						Test)	
12.3. Bioaccumulative	Log Pow		0,9-1			OECD 117	Slight
potential:						(Partition	
						Coefficient (n-	
						octanol/water) -	
						HPLC method)	

(B) (R) (M)

Page 25 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005 Valid from: 08.08.2024

PDF print date: 08.08.2024

12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Toxicity to bacteria:	EC10	30min	>1995	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:						,	Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

1-Propanaminium, 2-h sulfates (salts)	ydroxy-N-(2-hy	droxypro	pyl)-N,N-di	methyl-, d	iesters with vegetable	e-oil fatty acids, C1	8-unsatd., Me
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	35d	0,686	mg/l	Pimephales	U.S. EPA	Analogous
-					promelas	ECOTOX	conclusion
						Database	
12.1. Toxicity to fish:	LC50	96h	>10	mg/l	Cyprinus caprio	OECD 203	Analogous
						(Fish, Acute	conclusion
						Toxicity Test)	
12.1. Toxicity to	NOEC/NOEL	21d	1	mg/l	Daphnia magna	U.S. EPA	Analogous
daphnia:						ECOTOX	conclusion
						Database	
12.1. Toxicity to	EC50	48h	>8,6	mg/l	Daphnia magna	OECD 202	Analogous
daphnia:						(Daphnia sp.	conclusion
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,39	mg/l	Pseudokirchnerie	OECD 201	Analogous
					lla subcapitata	(Alga, Growth	conclusion
						Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	1,2	mg/l	Pseudokirchnerie	OECD 201	Analogous
					lla subcapitata	(Alga, Growth	conclusion
						Inhibition Test)	
12.2. Persistence and		28d	>60	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry	
						Test)	
Toxicity to bacteria:	EC50	6d	100	mg/l	activated sludge		Analogous
							conclusion

Acetic acid										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to fish:	LC50	96h	75	mg/l	Lepomis macrochirus					
12.1. Toxicity to fish:	LC50	96h	88	mg/l	Pimephales promelas					

- GB (RL M)

Page 26 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005 Valid from: 08.08.2024

Valid from: 08.08.2024 PDF print date: 08.08.2024

12.1. Toxicity to daphnia:	EC50	48h	>300,82	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50	24h	47	mg/l	Daphnia magna	,	
12.1. Toxicity to algae:	EC50	72h	>300,82	mg/l	Skeletonema costatum		
12.2. Persistence and degradability:		30d	>99	%			
12.2. Persistence and degradability:		20d	98	%			Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		-0,17				
12.3. Bioaccumulative potential:	BCF		<1				Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	15min	11	mg/l	Photobacterium phosphoreum		
Toxicity to bacteria:	EC5	16h	2850	mg/l	Pseudomonas putida		
Other information:	BOD5		0,88	g/g			

Ethanol Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	110100
12.1. Toxicity to fish:	NOEC/NOEL	120h	250	mg/l	Brachydanio rerio	OECD 212 (Fish, Short-term Toxicity Test on Embryo and Sac-fry Stages)	
12.1. Toxicity to daphnia:	EC50	48h	5414	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	10d	9,6	mg/l	Ceriodaphnia spec.		References
12.1. Toxicity to algae:	EC50	72h	275	mg/l	Chlorella vulgaris	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	97	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		(-0,35) - (-0,32)			·	Bioaccumulatio n is unlikely (LogPow < 1).
12.3. Bioaccumulative potential:	BCF		0,66 - 3,2				, , , ,
12.4. Mobility in soil:	H (Henry)		0,00013 8				
12.4. Mobility in soil:	Koc		1,0				Highestimated

- GB (RL) M

Page 27 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	IC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other organisms:	NOEC/NOEL		280	mg/l	Lemna gibba	OECD 201 (Alga, Growth Inhibition Test)	
Other information:	COD		1,9	g/g		,	
Other information:	BOD5		1	g/g			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	> 22	μg/l	Oncorhynchus		EPA OTS
					mykiss		797.1400
12.1. Toxicity to fish:	NOEC/NOEL	>60d	>=0,004 4	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to	EC50	48h	> 15	μg/l	Daphnia magna		EPA OTS
daphnia:							797.1300
12.1. Toxicity to	NOEC/NOEL	21d	>0,015	mg/l	Daphnia magna		
daphnia:							
12.1. Toxicity to algae:	ErC10	96h	0,022	mg/l			
12.1. Toxicity to algae:	EC50	96h	>2000	mg/l			
12.2. Persistence and degradability:		28d	3,7	%	activated sludge	OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test))	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF	28d	12400		Pimephales promelas		EPA OTS 797.1520
12.3. Bioaccumulative potential:	Log Pow		6,98				21,7 °C
12.5. Results of PBT							PBT-
and vPvB assessment							substance, vPvB-substan
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	ISO 8192	

#### **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)

16 05 08 discarded organic chemicals consisting of or containing hazardous substances

20 01 99 other fractions not otherwise specified

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

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

GB (RL) M

Page 28 of 31

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

Revision date / version: 08.08.2024 / 0006

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**ProtectorWax** Art.: 319999

E.g. dispose at suitable refuse site. E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

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

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

#### **General statements**

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

14.1. UN number or ID number: 3265

14.2. UN proper shipping name:

UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (AMINO FUNCTIONAL SILOXANE, ACETIC ACID)

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

Not applicable 14.5. Environmental hazards:

Tunnel restriction code: Ε Classification code: C3 IO. 1 I Transport category: 2

Transport by sea (IMDG-code)

14.1. UN number or ID number: 3265

14.2. UN proper shipping name:

UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (AMINO FUNCTIONAL SILOXANE, ACETIC ACID)

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

14.5. Environmental hazards: Not applicable Marine Pollutant: Not applicable F-A, S-B EmS:

Transport by air (IATA)

14.1. UN number or ID number: 3265

14.2. UN proper shipping name:

UN 3265 Corrosive liquid, acidic, organic, n.o.s. (AMINO FUNCTIONAL SILOXANE, ACETIC ACID)

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

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.

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)!

Regulation (EC) No 1907/2006, Annex XVII

2-(2-butoxyethoxy)ethanol Octamethylcyclotetrasiloxane









GB (RL) M

Page 29 of 31

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

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Valid from: 08.08.2024 PDF print date: 08.08.2024

**ProtectorWax** Art.: 319999

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): ~ 32,3 %

Observe incident regulations.

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, 3, 11, 16

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
Acute Tox. 4, H332	Classification according to calculation procedure.
Skin Corr. 1B, H314	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents. H314 Causes severe skin burns and eye damage.

H361f Suspected of damaging fertility.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Acute Tox. — Acute toxicity - inhalation

Skin Corr. — Skin corrosion

Eye Dam. — Serious eye damage

Aguatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - oral

Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation

Flam. Liq. — Flammable liquid

Repr. — Reproductive toxicity

Acute Tox. — Acute toxicity - dermal

Skin Sens. — Skin sensitization

- GB (RL M)

Page 30 of 31

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

Revision date / version: 08.08.2024 / 0006

Replacing version dated / version: 11.03.2024 / 0005

Valid from: 08.08.2024 PDF print date: 08.08.2024

ProtectorWax Art.: 319999

#### 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 (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

EN European Norms

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

ErCx, EμCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera

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)

IMDG-code International Maritime Code for Dangerous Goods

- GB (RL M)-

Page 31 of 31

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

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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)

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

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

LQ Limited Quantities

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 applicablen.av. not availablen.c. not checkedn.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)

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.

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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