

**Trade name:** ProtectorWax**Product no.:** 319999**Current version :** 1.0.0, issued: 14.09.2020**Replaced version: -, issued: -****Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****ProtectorWax****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 data available.

**1.3 Details of the supplier of the safety data sheet****Address**

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For information in the event of an emergency during transport:

+44 1865 407333

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Acute Tox. 4; H332

Eye Dam. 1; H318

Skin Corr. 1B; H314

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05



GHS07

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

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2-butoxyethanol  
 Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated  
 1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)

**Hazard statement(s)**

H314 Causes severe skin burns and eye damage.  
 H332 Harmful if inhaled.

**Precautionary statement(s)**

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/spray.  
 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 a facility in accordance with local and national regulations.

**2.3 Other hazards**

PBT assessment

One or more components of this product are classified as PBT.

vPvB assessment

One or more components of this product are classified as vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	<b>2-butoxyethanol</b>		
	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 25.00 - < 50.00 %-b.w.
2	<b>Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated</b>		
	102782-92-3 - - -	Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 5.00 - < 10.00 %-b.w.
3	<b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b>		
	- 939-685-4 - 01-2119983493-26	Aquatic Chronic 3; H412 Eye Dam. 1; H318 Skin Irrit. 2; H315	< 5.00 %-b.w.
4	<b>Acetic acid</b>		

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	64-19-7 200-580-7 607-002-00-6 01-2119475328-30	Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318	< 2.50	%-b.w.
5	<b>octamethylcyclotetrasiloxane</b>			
	556-67-2 209-136-7 014-018-00-1 01-2119529238-36	Aquatic Chronic 4; H413 Repr. 2; H361f Flam. Liq. 3; H226	< 2.50	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
4	B	Skin Irrit. 2; H315: C >= 10% Eye Irrit. 2; H319: C >= 10% Skin Corr. 1B; H314: C >= 25% Skin Corr. 1A; H314: C >= 90%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation. In case of persisting adverse effects consult a physician. Irregular breathing/no breathing: artificial respiration.

**After skin contact**

Wash immediately with plenty of water for several minutes. Call a doctor immediately.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

No data available.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Foam; Carbon dioxide; Dry chemical extinguisher

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>); Corrosive gases/vapours

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Use self-contained breathing apparatus. Wear full protective suit. Run-off water from fire fighting must not be discharged into drains or enter surface water.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing. Do not inhale vapours.

**For emergency responders**

Personal protective equipment (PPE) - see section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dilute with plenty of water.

**6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

**Incompatible products**

Substances to be avoided, see section 10.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
	2000/39/EC		

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2-Butoxyethanol					
WEL short-term (15 min reference period)	246	mg/m <sup>3</sup>	50	ppm	
WEL long-term (8-hr TWA reference period)	98	mg/m <sup>3</sup>	20	ppm	
Skin resorption / sensibilisation	Skin				
<b>List of approved workplace exposure limits (WELs) / EH40</b>					
2-Butoxyethanol					
WEL short-term (15 min reference period)	246	mg/m <sup>3</sup>	50	ppm	
WEL long-term (8-hr TWA reference period)	123	mg/m <sup>3</sup>	25	ppm	
Comments	Sk, BMGV				
<b>2</b>	<b>Acetic acid</b>	<b>64-19-7</b>		<b>200-580-7</b>	
<b>2017/164/EU</b>					
Acetic acid					
WEL short-term (15 min reference period)	50	mg/m <sup>3</sup>	20	ppm	
WEL long-term (8-hr TWA reference period)	25	mg/m <sup>3</sup>	10	ppm	
<b>List of approved workplace exposure limits (WELs) / EH40</b>					
Acetic acid					
WEL short-term (15 min reference period)	50	mg/m <sup>3</sup>	20	ppm	
WEL long-term (8-hr TWA reference period)	25	mg/m <sup>3</sup>	10	ppm	

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>2-butoxyethanol</b>			<b>111-76-2</b> <b>203-905-0</b>	
	dermal	Long term (chronic)	systemic	125.00	mg/kg/day
	dermal	Short term (acut)	systemic	89.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	98.00	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	1091.00	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	246.00	mg/m <sup>3</sup>
2	<b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b>			<b>-</b> <b>939-685-4</b>	
	dermal	Long term (chronic)	systemic	112.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	8.72	mg/m <sup>3</sup>
3	<b>Acetic acid</b>			<b>64-19-7</b> <b>200-580-7</b>	
	inhalative	Long term (chronic)	local	25	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	25	mg/m <sup>3</sup>
4	<b>octamethylcyclotetrasiloxane</b>			<b>556-67-2</b> <b>209-136-7</b>	
	inhalative	Long term (chronic)	systemic	73.00	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	73.00	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	73.00	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	73.00	mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>2-butoxyethanol</b>			<b>111-76-2</b> <b>203-905-0</b>	
	oral	Long term (chronic)	systemic	6.30	mg/kg/day
	oral	Short term (acut)	systemic	26.70	mg/kg/day
	dermal	Long term (chronic)	systemic	75.00	mg/kg/day
	dermal	Short term (acut)	systemic	89.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	59.00	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	426.00	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	147.00	mg/m <sup>3</sup>

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2	<b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b>			- <b>939-685-4</b>
	oral	Long term (chronic)	systemic	1.25 mg/kg/day
	dermal	Long term (chronic)	systemic	56.25 mg/kg/day
	inhalative	Long term (chronic)	systemic	2.17 mg/m <sup>3</sup>
3	<b>Acetic acid</b>			<b>64-19-7</b> <b>200-580-7</b>
	inhalative	Long term (chronic)	local	25 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	25 mg/m <sup>3</sup>
4	<b>octamethylcyclotetrasiloxane</b>			<b>556-67-2</b> <b>209-136-7</b>
	oral	Long term (chronic)	systemic	3.70 mg/kg/day
	oral	Short term (acut)	systemic	3.70 mg/kg/day
	inhalative	Long term (chronic)	systemic	13.00 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	13.00 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	13.00 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	13.00 mg/m <sup>3</sup>

## PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	<b>2-butoxyethanol</b>		<b>111-76-2</b> <b>203-905-0</b>
	water	fresh water	8.80 mg/L
	water	marine water	0.88 mg/L
	water	fresh water sediment	34.60 mg/kg
	with reference to: dry weight		
	water	marine water sediment	3.46 mg/kg
	water	Aqua intermittent	26.4 mg/L
	soil	-	2.33 mg/kg dry weight
	sewage treatment plant	-	463.00 mg/L
	secondary poisoning	-	0.02 g/kg
2	<b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b>		- <b>939-685-4</b>
	water	fresh water	0.017 mg/L
	water	marine water	0.002 mg/L
	water	fresh water sediment	1.7 mg/kg dry weight
	water	marine water sediment	0.17 mg/kg dry weight
	soil	-	0.331 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
3	<b>Acetic acid</b>		<b>64-19-7</b> <b>200-580-7</b>
	water	fresh water	3.058 mg/L
	water	marine water	0.3058 mg/L
	water	fresh water sediment	11.36 mg/kg
	water	marine water sediment	1.136 mg/kg
	water	Aqua intermittent	30.58 mg/L
	soil	-	0.47 mg/kg
	sewage treatment plant	-	85 mg/L
4	<b>octamethylcyclotetrasiloxane</b>		<b>556-67-2</b> <b>209-136-7</b>
	water	fresh water	0.44 µg/L
	water	marine water	0.044 µg/L
	water	fresh water sediment	0.59 mg/kg

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with reference to: dry weight			
water	marine water sediment	0.059	mg/kg
with reference to: dry weight			
soil	-	0.15	mg/kg
with reference to: dry weight			
sewage treatment plant	-	10.00	mg/kg
secondary poisoning	-	41.00	mg/kg
with reference to: food			

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Filter A or environment-independent breathing apparatus.

#### Eye / face protection

Tightly fitting safety glasses (EN 166).

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	butyl		
Appropriate Material	nitrile		
Appropriate Material	PVC		
Material thickness	>	0.5	mm
Breakthrough time	>	480	min

#### Other

Chemical-resistant work clothes.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>	
liquid	
orange	
<b>Odour</b>	
fruity	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Value	4.5
<b>Boiling point / boiling range</b>	
No data available	

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<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
No data available			
<b>Auto-ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
not oxidizing			
<b>Explosive properties</b>			
The product does not have explosive properties.			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	0.97	g/cm <sup>3</sup>	
Reference temperature	20	°C	
<b>Solubility in water</b>			
Comments	miscible		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	2-butoxyethanol	111-76-2	203-905-0
log Pow		0.81	
Reference temperature		25	°C
Source	ECHA		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
log Pow		6.49	
Reference temperature		25.1	°C
Method	OECD 123		
Source	ECHA		
<b>Viscosity</b>			
No data available			

**9.2 Other information**

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**Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

None, if handled according to intended use.

**10.5 Incompatible materials**

strong bases; strong oxidizing agents; strong acids

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute oral toxicity (result of the ATE calculation for the mixture)**

No	Product Name
1	ProtectorWax
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

**Acute oral toxicity**

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
LD50		1746	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
LD50	>	4800	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

**Acute dermal toxicity (result of the ATE calculation for the mixture)**

No	Product Name
1	ProtectorWax
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

**Acute dermal toxicity**

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0

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LD50	>	2000	mg/kg bodyweight
Species	guinea pig		
Method	OECD 402		
Source	ECHA		
<b>2</b>	<b>octamethylcyclotetrasiloxane</b>	<b>556-67-2</b>	<b>209-136-7</b>
LD50	>	2400	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		

**Acute inhalational toxicity (result of the ATE calculation for the mixture)**

No	Product Name		
<b>1</b>	<b>ProtectorWax</b>		
ATE (Mixture)	4.28 mg/l 57		
Route of exposure / physical form	Dust/mist		
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.		

**Acute inhalational toxicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
ATE		1.5	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
<b>2</b>	<b>octamethylcyclotetrasiloxane</b>	<b>556-67-2</b>	<b>209-136-7</b>
LC50		36	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Source	ECHA		

**Skin corrosion/irritation**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
Duration of exposure		4	h
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	irritant		
<b>2</b>	<b>octamethylcyclotetrasiloxane</b>	<b>556-67-2</b>	<b>209-136-7</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

**Serious eye damage/irritation**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
Duration of exposure		24	h
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irritating to eyes		
<b>2</b>	<b>octamethylcyclotetrasiloxane</b>	<b>556-67-2</b>	<b>209-136-7</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		

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Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Reproduction toxicity			
No data available			
Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Species		rat	
Method		OECD 451	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
STOT - single exposure			
No data available			
STOT - repeated exposure			
No data available			
Aspiration hazard			
No data available			

## SECTION 12: Ecological information

## 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
LC50		>	1474 mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	
Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.

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1	2-butoxyethanol	111-76-2	203-905-0
NOEC	>	100	mg/l
Duration of exposure		21	day(s)
Species	Danio rerio		
Method	OECD 204		
Source	ECHA		

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
EC50		1550	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
NOEC		100	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
EC50		911	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No data available			

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Type	aerobic biodegradation		
Value		90.4	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		
Evaluation	readily biodegradable		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
Type	aerobic biodegradation		
Value		3.7	%
Duration		29	day(s)
Method	OECD 310		
Source	ECHA		
Evaluation	not readily biodegradable		

Abiotic Degradation			
No	Substance name	CAS no.	EC no.
1	octamethylcyclotetrasiloxane	556-67-2	209-136-7

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Type	Hydrolysis		
Half-life	69,3-144	h	
pH value	7		
Reference temperature	24.6	°C	
Method	OECD 111		
Source	ECHA		

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
log Pow		0.81	
Reference temperature		25	°C
Source	ECHA		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
log Pow		6.49	
Reference temperature		25.1	°C
Method	OECD 123		
Source	ECHA		

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	One or more components of this product are classified as PBT.
vPvB assessment	One or more components of this product are classified as vPvB.

**12.6 Other adverse effects**

No data available.

**12.7 Other information**

Other information
Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

No data available.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	8
Classification code	C3
Packing group	II
Hazard identification no.	80
UN number	UN3265
Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name	Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated
Tunnel restriction code	E
Label	8

**14.2 Transport IMDG**

Class	8
Packing group	II
UN number	UN3265
Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name	Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-

**Trade name:** ProtectorWax**Product no.:** 319999**Current version :** 1.0.0, issued: 14.09.2020**Replaced version:** -, issued: -**Region:** GB

EmS	terminated
Label	F-A, S-B 8

**14.3 Transport ICAO-TI / IATA**

Class	8
Packing group	II
UN number	UN3265
Proper shipping name	Corrosive liquid, acidic, organic, n.o.s.
Technical name	Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated
Label	8

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation ((EC) 1907/2006) that are placed on the list of candidates considered for inclusion in annexe XIV (substances subject to Authorisation).

No	Substance name	CAS no.	EC no.
1	decamethylcyclopentasiloxane	541-02-6	208-764-9
2	dodecamethylcyclohexasiloxane	540-97-6	208-762-8
3	octamethylcyclotetrasiloxane	556-67-2	209-136-7

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

No	Substance name	CAS no.	EC no.	No
1	decamethylcyclopentasiloxane	541-02-6	208-764-9	70
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7	70

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product. Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

**Trade name:** ProtectorWax**Product no.:** 319999**Current version :** 1.0.0, issued: 14.09.2020**Replaced version:** -, issued: -**Region:** GB

The surfactants contained in this product comply with the DetVO 648/2004/EC.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
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### Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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