

**Trade name:** NanoMagic Twin Wax**Product no.:** 220999**Current version :** 1.0.0, issued: 03.11.2020**Replaced version:** -, issued: -**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****NanoMagic Twin Wax****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Preserving 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**

+353 1 809 2166 (National Poisons Information Centre)

**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:**

2-butoxyethanol

1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)

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Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated

**Hazard statement(s)**H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.**Hazard statements (EU)**

EUH208 Contains benzyl-salicylate, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1 one. May produce an allergic reaction.

**Precautionary statement(s)**P260 Do not breathe vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection.  
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.  
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	wt%
2	<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	>= 10,00 - < 25,00	wt%
3	<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	wt%
4	<b>Acetic acid</b>			
	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	wt%

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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	< 0,50	wt%
6	<b>benzyl-salicylate</b>			
	118-58-1 204-262-9 - -	Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	< 0,50	wt%
7	<b>1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1 one</b>			
	54464-57-2 259-174-3 - -	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,50	wt%

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.

**After skin contact**

Wash immediately with plenty of water for several minutes. Seek medical attention.

**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; Alcohol-resistant foam; Carbon dioxide; Dry chemical extinguisher

**Unsuitable extinguishing media**

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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 monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Sulphur oxides (SxO<sub>y</sub>); Nitrogen oxides (NO<sub>x</sub>)

## 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit.

## 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.

#### 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).

### 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. Store in a dry place. Keep from freezing.

#### Recommended storage temperature

Value

Room temperature

#### 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

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**Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
	<b>2000/39/EC</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)	98 mg/m <sup>3</sup>	20 ppm
	Skin resorption / sensibilisation	Skin	
	<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</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)	98 mg/m <sup>3</sup>	20 ppm
	Comments	Sk, IOELV	
2	Acetic acid	64-19-7	200-580-7
	<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 Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</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
	Comments	IOELV	

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

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	2-butoxyethanol			111-76-2 203-905-0
	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	1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)			- 939-685-4
	dermal	Long term (chronic)	systemic	112,5 mg/kg/day
	inhalative	Long term (chronic)	systemic	8,72 mg/m <sup>3</sup>
3	Acetic acid			64-19-7 200-580-7
	inhalative	Long term (chronic)	local	25 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	25 mg/m <sup>3</sup>
4	octamethylcyclotetrasiloxane			556-67-2 209-136-7
	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	2-butoxyethanol			111-76-2 203-905-0

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	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>
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>	
	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>-</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

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	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
	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 work-station 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	neoprene		
Appropriate Material	Polychloroprene		
Material thickness	>	0,5	mm
Breakthrough time	>	120	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>
characteristic

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<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
Value	5		
<b>Boiling point / boiling range</b>			
No data available			
<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>			
Product does not present an explosion hazard.			
<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	



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Reference temperature	25,1	°C
Method	OECD 123	
Source	ECHA	

**Viscosity**

No data available

**9.2 Other information****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 known

**10.5 Incompatible materials**

strong oxidizing agents; strong acids; strong bases

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**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	NanoMagic Twin Wax
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	NanoMagic Twin Wax
Comments	The result of the applied calculation method according to the

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	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).
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Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
LD50	>	2000	mg/kg bodyweight
Species	guinea pig		
Method	OECD 402		
Source	ECHA		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
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	CAS no.	EC no.
1	NanoMagic Twin Wax		
ATE (Mixture)	5,0000	mg/l	
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.
1	2-butoxyethanol	111-76-2	203-905-0
ATE	1,5	mg/l	
Duration of exposure	4	h	
State of aggregation	Dust/mist		
Species	rat		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
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.
1	2-butoxyethanol	111-76-2	203-905-0
Duration of exposure	4	h	
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	irritant		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Duration of exposure	24	h	
Species	rabbit		
Method	OECD 405		

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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

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>2</b>	<b>octamethylcyclotetrasiloxane</b>	<b>556-67-2</b>	<b>209-136-7</b>
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.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>octamethylcyclotetrasiloxane</b>	<b>556-67-2</b>	<b>209-136-7</b>
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.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
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.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
LC50	>	1474	mg/l

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Duration of exposure	96	h
Species	Oncorhynchus mykiss	
Method	OECD 203	
Source	ECHA	

Toxicity to fish (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	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	%

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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
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****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

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

**Trade name:** NanoMagic Twin Wax**Product no.:** 220999**Current version :** 1.0.0, issued: 03.11.2020**Replaced version:** -, issued: -**Region:** IE

Class	8
Classification code	C9
Packing group	II
Hazard identification no.	80
UN number	UN1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated Acetic acid
Tunnel restriction code	E
Label	8

**14.2 Transport IMDG**

Class	8
Packing group	II
UN number	UN1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated Acetic acid
EmS	F-A, S-B
Label	8

**14.3 Transport ICAO-TI / IATA**

Class	8
Packing group	II
UN number	UN1760
Proper shipping name	Corrosive liquid, n.o.s.
Technical name	Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated Acetic acid
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 annex XIV (substances subject to Authorisation).

No	Substance name	CAS no.	EC no.
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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, MIXTURES AND ARTICLES**

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

**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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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.

**Creation of the safety data sheet**

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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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