

**Trade name:** Hyper Dryer**Product no.:** 420999**Current version :** 2.0.0, issued: 31.03.2022**Replaced version:** 1.0.2, issued: 07.08.2020**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**Hyper Dryer****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

Aquatic Chronic 3; H412

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

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**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)

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.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement(s)**

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.

**Supplemental label elements**

Regulation (EC) No 648/2004 on detergents (Annex VII):

15-30% cationic surfactants

**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 wt%
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	wt%
5	<b>octamethylcyclotetrasiloxane</b>		<b>pls. refer to footnote (2)</b>	
	556-67-2 209-136-7 014-018-00-1 01-2119529238-36	Flam. Liq. 3; H226 Repr. 2; H361f Aquatic Chronic 1; H410	< 0.50	wt%

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

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

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%	-	-
5	-	-	-	M = 10

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)".

Acute toxicity estimate (ATE) values				
No	oral	dermal	inhalative	
1	1746 mg/kg bodyweight			

### 3.3 Other information

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).  
Decamethylcyclopentasiloxane CAS#541-02-6  
Dodecamethylcyclohexasiloxane CAS#540-97-6  
Octamethylcyclotetrasiloxane CAS#556-67-2

## 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. Seek medical advice immediately.

#### 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.

### 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.

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## 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>); Toxic gases/vapours

### 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.

### 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 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. Always keep in containers of same material as the original.

**Incompatible products**

Substances to be avoided, see section 10.

### 7.3 Specific end use(s)

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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	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
	<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 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	
2	<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>		
	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>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

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1	<b>2-butoxyethanol</b>			<b>111-76-2 203-905-0</b>	
	oral	Long term (chronic)	systemic	6.30	mg/kg/day
	oral	Short term (acut)	systemic	26.70	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>- 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>64-19-7 200-580-7</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>556-67-2 209-136-7</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>111-76-2 203-905-0</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	mg/kg food
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>64-19-7 200-580-7</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	1.5	µg/L
	water	marine water	0.15	µg/L
	water	fresh water sediment	3	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0.3	mg/kg
	with reference to: dry weight			
	soil	-	0.54	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	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>State of aggregation</b>
liquid
<b>Form/Colour</b>
liquid
red
<b>Odour</b>

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characteristic			
<b>pH value</b>			
Value	4	-	5
<b>Boiling point / boiling range</b>			
No data available			
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
Not applicable			
<b>Ignition temperature</b>			
No data available			
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</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	soluble		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</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		20	°C
Method		calculated	
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>			
Value	1	mPa*s	
Reference temperature	25	°C	
Type	dynamic		



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**Corrosive to metals**

non-corrosive

**Particle characteristics**

No data available

**9.2 Other information****Other information**

No data available.

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

Stable at ambient temperature.

**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 acids; Alkalis; Oxidizing agents

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (result of the ATE calculation for the mixture)****No** **Product Name****1** **Hyper Dryer**

## 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

&gt; 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** **Hyper Dryer**

## Comments

The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6,

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	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		
1	Hyper Dryer		
ATE (Mixture)	4.2857	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		
Method	OECD 403		
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>
Method	OECD 471		
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	

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

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**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
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		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
LC50	>	22	µg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	EPA OTS 797.1400		
Source	ECHA		
<b>Toxicity to fish (chronic)</b>			
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		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
NOEC	>=	4.4	µg/l
Duration of exposure		93	day(s)
Species	Oncorhynchus mykiss		
Source	ECHA		
<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
EC50		690	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
EC50	>	15	µg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EPA OTS 797.1300		
Source	ECHA		
<b>Toxicity to Daphnia (chronic)</b>			
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		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
NOEC		7.9	µg/l
Species	Daphnia magna		

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Method	EPA OTS 797.1330
Source	ECHA

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
EC50		623	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
EC50	>	22	µg/l
Duration of exposure		96	h
Species	Pseudokirchneriella subcapitata		
Method	EPA OTS 797.1050		
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
Value		3.7	%
Duration		29	day(s)
Method	OECD 310		
Source	ECHA		
Evaluation	not readily biodegradable		

## 12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	octamethylcyclotetrasiloxane	556-67-2	209-136-7
BCF		13400	
Species	Pimephales promelas		
Method	EPA OTS 797.1520		
Source	ECHA		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
log Pow		0.81	
Reference temperature		20	°C
Method	calculated		
Source	ECHA		
2	octamethylcyclotetrasiloxane	556-67-2	209-136-7
log Pow		6.49	
Reference temperature		25.1	°C

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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 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**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**

Residues 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**

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-terminated
EmS	F-A, S-B
Label	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-

Trade name: Hyper Dryer

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Label terminated  
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 Maritime transport in bulk according to IMO instruments**

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.
1	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

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	2-butoxyethanol	111-76-2	203-905-0	75
2	Acetic acid	64-19-7	200-580-7	75
3	N-(2-ethylhexyl)-1-[[2-methyl-4-[(2-methylphenyl)azo]phenyl]azo]naphthalen-1-amine	56358-09-9	260-124-8	75
4	octamethylcyclotetrasiloxane	556-67-2	209-136-7	70, 75

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

**15.2 Chemical safety assessment**

No data available.

**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.

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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.
H410	Very toxic to aquatic life with long lasting effects.

**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**

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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.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 762992