



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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BONDERITE C-MC 5884 AERO known as TURCO 5884

SDS No. : 600829  
V004.0

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

#### 1.1. Product identifier

BONDERITE C-MC 5884 AERO known as TURCO 5884

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

Intended use:

Cleaners for Automobile

#### 1.3. Details of the supplier of the safety data sheet

Henkel Nederland B.V.

Brugwal 11

3432 NZ Nieuwegein

Netherlands

Phone: +31 (30) 60 73 911

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

[SDSinfo.Adhesive@henkel.com](mailto:SDSinfo.Adhesive@henkel.com)

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: [technical.services@henkel.co.uk](mailto:technical.services@henkel.co.uk)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye damage Category 1

H318 Causes serious eye damage.

**Carcinogenicity Category 1B**

**H350 May cause cancer.**

Specific target organ toxicity - single exposure Category 3

H336 May cause drowsiness or dizziness.

Target organ: Central nervous system

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Label elements (CLP):



**Contains** Solvent naphtha (petroleum), heavy arom.  
 Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)  
 cumene  
 Naphthalene

**Signal word:** Danger

**Hazard statement:** H350 May cause cancer.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.

**Supplemental information** Restricted to professional users.

**Precautionary statement: Prevention** P201 Obtain special instructions before use.  
 P261 Avoid breathing mist/vapours.  
 P280 Wear protective gloves/eye protection.

**Precautionary statement: Response** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P310 Immediately call a POISON CENTER or doctor.

**2.3. Other hazards**

None if used properly.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

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

**3.2. Mixtures**

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Solvent naphtha (petroleum), heavy arom. 64742-94-5 265-198-5	20- 40 %	Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336 Carc. 2, H351		
2-Butoxyethanol 111-76-2 203-905-0 01-2119475108-36	5- < 10 %	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, Oral, H302 Acute Tox. 3, Inhalation, H331	dermal:ATE = > 5.000 mg/kg oral:ATE = 1.200 mg/kg inhalation:ATE = 3 mg/l;vapour	EU OEL
2-Methylpentane-2,4-diol 107-41-5 203-489-0 01-2119539582-35	1- < 5 %	Eye Irrit. 2, H319 Skin Irrit. 2, H315	oral:ATE = 2.500 mg/kg	
Fatty alcohol, C12-15, ethoxylate 68131-39-5 500-195-7	1- < 5 %	Aquatic Acute 1, H400 Aquatic Chronic 3, H412 Eye Irrit. 2, H319	M acute = 1	
Naphthalene 91-20-3 202-049-5 01-2119561346-37	1- < 5 %	Flam. Sol. 2, H228 Acute Tox. 4, Oral, H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 1 M chronic = 1	EU OEL
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5 292-477-9 01-2119489409-22	1- < 5 %	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411		
Alcohols C13, branched EO 69011-36-5	1- < 5 %	Eye Dam. 1, H318 Aquatic Chronic 3, H412		
cumene 98-82-8 202-704-5 01-2119473983-24	0,1- < 1 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 Aquatic Chronic 2, H411 Carc. 1B, H350	inhalation:ATE = 21 mg/l;vapour	EU OEL
Methyl-1H-benzotriazole 29385-43-1 249-596-6 01-2119979081-35	0,1- < 1 %	Repr. 2, H361d Acute Tox. 4, Oral, H302 Aquatic Chronic 2, H411		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

For full text of the H - statements and other abbreviations see section 16 "Other information".

Declaration of ingredients according to Detergent Regulation 648/2004/EC

15 - 30 % aromatic hydrocarbons  
5 - 15 % non-ionic surfactants

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water.

In case of adverse health effects seek medical advice.

**Eye contact:**

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

**Ingestion:**

Drink 1-2 glasses of water, do not induce vomiting, administer an antifoaming agent (sab simplex), seek medical attention.

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

SKIN: Redness, inflammation.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

Vapors may cause drowsiness and dizziness.

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

See section: Description of first aid measures

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

Fine water spray

Carbon dioxide, foam, powder

**Extinguishing media which must not be used for safety reasons:**

Water jet (solvent-containing product).

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

Formation of toxic gases is possible during heating or in fires.

**5.3. Advice for firefighters**

Wear protective equipment.

Wear self-contained breathing apparatus.

**Additional information:**

Cool endangered containers with water spray jet.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

Danger of slipping on spilled product.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

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

Dispose of contaminated material as waste according to Section 13.

Remove with liquid-absorbing material (sand, peat, sawdust).

**6.4. Reference to other sections**

See advice in section 8

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

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

See advice in section 8

Take measures to prevent the build-up of electrostatic charges.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Take off contaminated clothing and wash before reuse.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in sealed original container.

Ensure adequate ventilation.

**7.3. Specific end use(s)**

Cleaners for Automobile

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL]	25	123	Time Weighted Average (TWA):		EH40 WEL
2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL]	20	98	Time Weighted Average (TWA):	Indicative	ECTLV
2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL]	50	246	Short Term Exposure Limit (STEL):	Indicative	ECTLV
2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL]	50	246	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
2-Methylpentane-2,4-diol 107-41-5 [2-METHYLPENTANE-2,4-DIOL]	25	123	Time Weighted Average (TWA):		EH40 WEL
2-Methylpentane-2,4-diol 107-41-5 [2-METHYLPENTANE-2,4-DIOL]	25	123	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Cumene 98-82-8 [CUMENE]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Cumene 98-82-8 [CUMENE]	25	125	Time Weighted Average (TWA):		EH40 WEL
Cumene 98-82-8 [2-PHENYLPROPANE (CUMENE)]			Skin designation:	Can be absorbed through the skin.	ECTLV
Cumene 98-82-8 [2-PHENYLPROPANE (CUMENE)]	50	250	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Cumene 98-82-8 [2-PHENYLPROPANE (CUMENE)]	10	50	Time Weighted Average (TWA):	Indicative	ECTLV
Cumene 98-82-8 [CUMENE]	50	250	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

#### Occupational Exposure Limits

Valid for  
Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
2,2',2"-Nitrilotriethanol 102-71-6 [TRIETHANOLAMINE]		5	Time Weighted Average (TWA):		IR_OEL
2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL (EGBE)]	50	246	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL
2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL (EGBE)]	20	98	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL (EGBE)]			Skin designation:	Can be absorbed through the skin.	IR_OEL
2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL]	20	98	Time Weighted Average (TWA):	Indicative	ECTLV

2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL]	50	246	Short Term Exposure Limit (STEL):	Indicative	ECTLV
2-Methylpentane-2,4-diol 107-41-5 [HEXYLENE GLYCOL]	25	125	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
Naphthalene 91-20-3 [NAPHTHALENE]	10	50	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Naphthalene 91-20-3 [NAPHTHALENE]	10	50	Time Weighted Average (TWA):	Indicative	ECTLV
Naphthalene 91-20-3 [POLYCYCLIC AROMATIC HYDROCARBONS MIXTURES]			Skin designation:	Can be absorbed through the skin.	EU OELIII
Cumene 98-82-8 [2-PHENYLPROPANE (CUMENE)]			Skin designation:	Can be absorbed through the skin.	ECTLV
Cumene 98-82-8 [2-PHENYLPROPANE (CUMENE)]	50	250	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Cumene 98-82-8 [2-PHENYLPROPANE (CUMENE)]	10	50	Time Weighted Average (TWA):	Indicative	ECTLV
Cumene 98-82-8 [ISOPROPYL BENZENE (CUMENE)]			Skin designation:	Can be absorbed through the skin.	IR_OEL
Cumene 98-82-8 [ISOPROPYL BENZENE (CUMENE)]	50	250	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL
Cumene 98-82-8 [Isopropyl benzene (Cumene)]	10	50	Time Weighted Average (TWA):	Indicative OELV	IR_OEL

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
2-butoxyethanol 111-76-2	aqua (freshwater)		8,8 mg/l				
2-butoxyethanol 111-76-2	aqua (marine water)		0,88 mg/l				
2-butoxyethanol 111-76-2	sewage treatment plant (STP)		463 mg/l				
2-butoxyethanol 111-76-2	sediment (freshwater)				34,6 mg/kg		
2-butoxyethanol 111-76-2	sediment (marine water)				3,46 mg/kg		
2-butoxyethanol 111-76-2	Soil				2,33 mg/kg		
2-butoxyethanol 111-76-2	oral				20 mg/kg		
2-butoxyethanol 111-76-2	Freshwater - intermittent		26,4 mg/l				
2-methylpentane-2,4-diol 107-41-5	aqua (freshwater)		0,429 mg/l				
2-methylpentane-2,4-diol 107-41-5	aqua (marine water)		0,0429 mg/l				
2-methylpentane-2,4-diol 107-41-5	aqua (intermittent releases)		4,29 mg/l				
2-methylpentane-2,4-diol 107-41-5	sewage treatment plant (STP)		20 mg/l				
2-methylpentane-2,4-diol 107-41-5	sediment (freshwater)				1,59 mg/kg		
2-methylpentane-2,4-diol 107-41-5	sediment (marine water)				0,159 mg/kg		
2-methylpentane-2,4-diol 107-41-5	Soil				0,066 mg/kg		
Naphthalene 91-20-3	aqua (freshwater)		0,0024 mg/l				
Naphthalene 91-20-3	aqua (marine water)		0,0024 mg/l				
Naphthalene 91-20-3	sediment (freshwater)				0,0672 mg/kg		
Naphthalene 91-20-3	sediment (marine water)				0,0672 mg/kg		
Naphthalene 91-20-3	sewage treatment plant (STP)		2,9 mg/l				
Naphthalene 91-20-3	Soil				0,0533 mg/kg		
Naphthalene 91-20-3	aqua (intermittent releases)		0,02 mg/l				
Amides, C12-18 and C18-unsatd., N,N- bis(hydroxyethyl) 90622-74-5	aqua (freshwater)		0,007 mg/l				
Amides, C12-18 and C18-unsatd., N,N- bis(hydroxyethyl) 90622-74-5	aqua (marine water)		0,0007 mg/l				
Amides, C12-18 and C18-unsatd., N,N- bis(hydroxyethyl) 90622-74-5	aqua (intermittent releases)		0,024 mg/l				
Amides, C12-18 and C18-unsatd., N,N- bis(hydroxyethyl) 90622-74-5	sewage treatment plant (STP)		830 mg/l				
Amides, C12-18 and C18-unsatd., N,N- bis(hydroxyethyl) 90622-74-5	sediment (freshwater)				0,161 mg/kg		
Amides, C12-18 and C18-unsatd., N,N- bis(hydroxyethyl) 90622-74-5	sediment (marine water)				0,0161 mg/kg		
Amides, C12-18 and C18-unsatd., N,N- bis(hydroxyethyl) 90622-74-5	Soil				0,28 mg/kg		



90622-74-5							
cumene 98-82-8	aqua (freshwater)		0,035 mg/l				
cumene 98-82-8	sediment (marine water)				0,322 mg/kg		
cumene 98-82-8	aqua (marine water)		0,004 mg/l				
cumene 98-82-8	sewage treatment plant (STP)		200 mg/l				
cumene 98-82-8	Soil				0,624 mg/kg		
cumene 98-82-8	sediment (freshwater)				3,22 mg/kg		
Methyl-1H-benzotriazole 29385-43-1	aqua (freshwater)		0,008 mg/l				
Methyl-1H-benzotriazole 29385-43-1	aqua (marine water)		0,008 mg/l				
Methyl-1H-benzotriazole 29385-43-1	sewage treatment plant (STP)		39,4 mg/l				
Methyl-1H-benzotriazole 29385-43-1	sediment (freshwater)				0,003 mg/kg		
Methyl-1H-benzotriazole 29385-43-1	sediment (marine water)				0,003 mg/kg		
Methyl-1H-benzotriazole 29385-43-1	Soil				0,002 mg/kg		

**Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2-butoxyethanol 111-76-2	Workers	inhalation	Long term exposure - systemic effects		98 mg/m3	
2-butoxyethanol 111-76-2	Workers	inhalation	Acute/short term exposure - local effects		246 mg/m3	
2-butoxyethanol 111-76-2	Workers	inhalation	Acute/short term exposure - systemic effects		1091 mg/m3	
2-butoxyethanol 111-76-2	General population	inhalation	Long term exposure - systemic effects		59 mg/m3	
2-butoxyethanol 111-76-2	General population	inhalation	Acute/short term exposure - systemic effects		426 mg/m3	
2-butoxyethanol 111-76-2	General population	inhalation	Acute/short term exposure - local effects		147 mg/m3	
2-butoxyethanol 111-76-2	General population	oral	Long term exposure - systemic effects		6,3 mg/kg	
2-butoxyethanol 111-76-2	General population	oral	Acute/short term exposure - systemic effects		26,7 mg/kg	
2-methylpentane-2,4-diol 107-41-5	Workers	inhalation	Acute/short term exposure - local effects		98 mg/m3	
2-methylpentane-2,4-diol 107-41-5	Workers	inhalation	Long term exposure - systemic effects		44,4 mg/m3	
2-methylpentane-2,4-diol 107-41-5	Workers	inhalation	Long term exposure - local effects		49 mg/m3	
2-methylpentane-2,4-diol 107-41-5	Workers	dermal	Long term exposure - systemic effects		63 mg/kg	
2-methylpentane-2,4-diol 107-41-5	General population	inhalation	Acute/short term exposure - local effects		49 mg/m3	
2-methylpentane-2,4-diol 107-41-5	General population	inhalation	Long term exposure - systemic effects		7,8 mg/m3	
2-methylpentane-2,4-diol 107-41-5	General population	inhalation	Long term exposure - local effects		25 mg/m3	
2-methylpentane-2,4-diol 107-41-5	General population	oral	Long term exposure - systemic effects		2,25 mg/kg	
2-methylpentane-2,4-diol 107-41-5	General population	dermal	Long term exposure - systemic effects		22,5 mg/kg	
Naphthalene 91-20-3	Workers	dermal	Long term exposure - systemic effects		3,57 mg/kg	
Naphthalene 91-20-3	Workers	inhalation	Long term exposure - systemic effects		25 mg/m3	
Naphthalene 91-20-3	Workers	inhalation	Long term exposure - local effects		25 mg/m3	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	Workers	dermal	Long term exposure - systemic effects		4,16 mg/kg	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	Workers	Inhalation	Long term exposure - systemic effects		73,4 mg/m3	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	Workers	dermal	Long term exposure - local effects		0,09 mg/cm2	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)	General population	dermal	Long term exposure -		2,5 mg/kg	

90622-74-5			systemic effects			
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	General population	Inhalation	Long term exposure - systemic effects		21,73 mg/m3	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	General population	oral	Long term exposure - systemic effects		6,25 mg/kg	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	General population	dermal	Long term exposure - local effects		0,056 mg/cm2	
cumene 98-82-8	Workers	inhalation	Acute/short term exposure - local effects		250 mg/m3	
cumene 98-82-8	General population	oral	Long term exposure - systemic effects		5 mg/kg	
cumene 98-82-8	General population	inhalation	Long term exposure - systemic effects		16,6 mg/m3	
cumene 98-82-8	Workers	inhalation	Long term exposure - systemic effects		100 mg/m3	
cumene 98-82-8	Workers	dermal	Long term exposure - systemic effects		15,4 mg/kg	
cumene 98-82-8	General population	dermal	Long term exposure - systemic effects		1,2 mg/kg	
Methyl-1H-benzotriazole 29385-43-1	General population	dermal	Long term exposure - systemic effects		0,01 mg/kg	
Methyl-1H-benzotriazole 29385-43-1	Workers	dermal	Long term exposure - systemic effects		0,3 mg/kg	
Methyl-1H-benzotriazole 29385-43-1	General population	inhalation	Long term exposure - systemic effects		0,35 mg/m3	
Methyl-1H-benzotriazole 29385-43-1	Workers	inhalation	Long term exposure - systemic effects		21,2 mg/m3	
Methyl-1H-benzotriazole 29385-43-1	General population	oral	Acute/short term exposure - systemic effects		0,01 mg/kg	

**Biological Exposure Indices:**

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL]	Butoxyacetic acid	Creatinine in urine	Sampling time: End of shift.		UKEH40BMG V		
Naphthalene 91-20-3 [POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)]	1-Hydroxypyrene	Creatinine in urine	Sampling time: End of shift.		UKEH40BMG V		

**8.2. Exposure controls:**

Engineering controls:  
Ensure good ventilation/suction at the workplace.

Respiratory protection:  
In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).  
This recommendation should be matched to local conditions.

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR;  $\geq 1$  mm thickness) or natural rubber (NR;  $\geq 1$  mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR;  $\geq 1$  mm thickness) or natural rubber (NR;  $\geq 1$  mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Protective eye equipment should conform to EN166.  
Goggles which can be tightly sealed.

**Skin protection:**

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.  
Suitable protective clothing

**Advices to personal protection equipment:**

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Delivery form	liquid
Colour	light yellow
Odor	of solvent
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	< 0 °C (< 32 °F)
Initial boiling point	> 100 °C (> 212 °F)None
Flammability	The product is not flammable.
Explosive limits	
lower	0,6 % (V);
upper	7 % (V);
Flash point	> 60 °C (> 140 °F)
Auto-ignition temperature	> 200 °C (> 392 °F)
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH	8,60 - 9,10 PH-value, potentiometer
(20 °C (68 °F); Conc.: 20 % product; Solvent: Water)	
Viscosity (kinematic)	> 20,5 mm <sup>2</sup> /s
(40 °C (104 °F); )	
Viscosity, dynamic	340 mPa.s Supplier method
(; 40 °C (104 °F))	
Solubility (qualitative)	Miscible
(20 °C (68 °F); Solvent: Water)	
Partition coefficient: n-octanol/water	Not applicable
	Mixture
Vapour pressure	2,7 hPa
(20 °C (68 °F))	
Density	0,96 - 0,98 g/cm <sup>3</sup> density, hydrometer
(20 °C (68 °F))	
Relative vapour density:	> 1
(20 °C)	
Particle characteristics	Not applicable
	Product is a liquid

**9.2. Other information**

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reaction with strong acids.

Reaction with strong oxidants.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

No decomposition if used according to specifications.

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

None if used for intended purpose.

In case of fire toxic gases can be released.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Solvent naphtha (petroleum), heavy arom. 64742-94-5	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 420 (Acute Oral Toxicity)
2-Butoxyethanol 111-76-2	Acute toxicity estimate (ATE)	1.200 mg/kg		Expert judgement
2-Methylpentane-2,4-diol 107-41-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)
2-Methylpentane-2,4-diol 107-41-5	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
Fatty alcohol, C12-15, ethoxylate 68131-39-5	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Naphthalene 91-20-3	LD50	490 mg/kg	rat	not specified
Amides, C12-18 and C18- unsatd., N,N- bis(hydroxyethyl) 90622-74-5	LD50	> 5.000 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
Alcohols C13, branched EO 69011-36-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
cumene 98-82-8	LD50	2.260 mg/kg	rat	not specified
Methyl-1H-benzotriazole 29385-43-1	LD50	720 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Solvent naphtha (petroleum), heavy arom. 64742-94-5	LD50	> 2.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
2-Butoxyethanol 111-76-2	Acute toxicity estimate (ATE)	> 5.000 mg/kg		Expert judgement
2-Butoxyethanol 111-76-2	LD50	> 2.000 mg/kg	guinea pig	OECD Guideline 402 (Acute Dermal Toxicity)
2-Butoxyethanol 111-76-2	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
2-Methylpentane-2,4-diol 107-41-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Naphthalene 91-20-3	LD50	> 16.000 mg/kg	rat	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Amides, C12-18 and C18- unsatd., N,N- bis(hydroxyethyl) 90622-74-5	LD50	> 2.000 mg/kg	rabbit	not specified
cumene 98-82-8	LD50	> 10.000 mg/kg	rabbit	not specified
Methyl-1H-benzotriazole 29385-43-1	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Solvent naphtha (petroleum), heavy arom. 64742-94-5	LC50	> 5,28 mg/l	aerosol	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
2-Butoxyethanol 111-76-2	Acute toxicity estimate (ATE)	3 mg/l	vapour	4 h		Expert judgement
Naphthalene 91-20-3	LC50	> 0,4 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
cumene 98-82-8	Acute toxicity estimate (ATE)	21 mg/l	vapour	4 h		Expert judgement
cumene 98-82-8	LC50	< 39 mg/l	vapour	4 h	rat	not specified
cumene 98-82-8	LC50	> 17,6 mg/l	vapour	6 h	rat	not specified

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
2-Butoxyethanol 111-76-2	irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
2-Methylpentane-2,4-diol 107-41-5	slightly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Naphthalene 91-20-3	slightly irritating		rabbit	not specified
Amides, C12-18 and C18- unsat., N,N- bis(hydroxyethyl) 90622-74-5	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
cumene 98-82-8	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Methyl-1H-benzotriazole 29385-43-1	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
2-Butoxyethanol 111-76-2	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-Methylpentane-2,4-diol 107-41-5	moderately irritating		rabbit	Draize Test
Fatty alcohol, C12-15, ethoxylate 68131-39-5	irritating		rabbit	Draize Test
Naphthalene 91-20-3	slightly irritating		rabbit	Draize Test
Amides, C12-18 and C18- unsatd., N,N- bis(hydroxyethyl) 90622-74-5	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alcohols C13, branched EO 69011-36-5	Category 1 (irreversible effects on the eye)		rabbit	not specified
cumene 98-82-8	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Methyl-1H-benzotriazole 29385-43-1	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
2-Butoxyethanol 111-76-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2-Methylpentane-2,4-diol 107-41-5	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Naphthalene 91-20-3	not sensitising	no data	guinea pig	not specified
Amides, C12-18 and C18- unsatd., N,N- bis(hydroxyethyl) 90622-74-5	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
cumene 98-82-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Methyl-1H-benzotriazole 29385-43-1	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)



**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2-Butoxyethanol 111-76-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-Butoxyethanol 111-76-2	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-Butoxyethanol 111-76-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-Methylpentane-2,4-diol 107-41-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-Methylpentane-2,4-diol 107-41-5	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-Methylpentane-2,4-diol 107-41-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Naphthalene 91-20-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Amides, C12-18 and C18- unsatd., N,N- bis(hydroxyethyl) 90622-74-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
cumene 98-82-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
cumene 98-82-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
cumene 98-82-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
cumene 98-82-8	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	without		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
Methyl-1H-benzotriazole 29385-43-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-Butoxyethanol 111-76-2	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Amides, C12-18 and C18- unsatd., N,N- bis(hydroxyethyl) 90622-74-5	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
cumene 98-82-8	negative	inhalation: gas		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Methyl-1H-benzotriazole 29385-43-1	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
2-Butoxyethanol 111-76-2	NOAEL P 720 mg/kg NOAEL F1 720 mg/kg NOAEL F2 720 mg/kg	Two generation study	oral: drinking water	mouse	not specified
2-Methylpentane-2,4-diol 107-41-5	NOAEL P >= 1.000 mg/kg NOAEL F1 500 mg/kg	screening	oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	NOAEL P >= 250 mg/kg NOAEL F1 >= 250 mg/kg NOAEL F2 >= 250 mg/kg	Two generation study	oral: feed	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
Methyl-1H-benzotriazole 29385-43-1	NOAEL P > 200 mg/kg NOAEL F1 > 200 mg/kg		oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
2-Butoxyethanol 111-76-2	NOAEL 0,121 mg/l	inhalation	42 or 90 days 6 hours/day, 5 days/week	rat	not specified
2-Butoxyethanol 111-76-2	NOAEL < 69 mg/kg	oral: drinking water	90 d continous	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2-Methylpentane-2,4-diol 107-41-5	NOAEL 450 mg/kg	oral: gavage	13 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	NOAEL 500 mg/kg	oral: feed	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	NOAEL > 750 mg/kg	oral: gavage	28 d daily once, 5 times/w	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
cumene 98-82-8	NOAEL > 535,8 mg/kg	oral: feed	28 d daily	rat	not specified
cumene 98-82-8	NOAEL 125 ppm	inhalation: vapour	14 w 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Methyl-1H-benzotriazole 29385-43-1	NOAEL ca. 150 mg/kg	oral: gavage	28 days daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

### General ecological information:

Do not empty into drains / surface water / ground water.

The biodegradability of the surfactants contained in the product is in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).

The surfactants contained in the products are primary biodegradable to at least 90% on average.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Solvent naphtha (petroleum), heavy arom. 64742-94-5	LL50	> 2 - 5 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Butoxyethanol 111-76-2	LC50	1.474 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Butoxyethanol 111-76-2	NOEC	> 100 mg/l	21 d	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
2-Methylpentane-2,4-diol 107-41-5	LC50	> 1.000 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	not specified
Fatty alcohol, C12-15, ethoxylate 68131-39-5	LC50	1,4 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	DIN 38412-15
Fatty alcohol, C12-15, ethoxylate 68131-39-5	NOEC	> 0,1 - 1,0 mg/l		not specified	not specified
Naphthalene 91-20-3	LC50	0,11 mg/l	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Naphthalene 91-20-3	NOEC	0,12 mg/l	40 d	Oncorhynchus gorbuscha	other guideline:
Amides, C12-18 and C18- unsatd., N,N- bis(hydroxyethyl) 90622-74-5	NOEC	0,32 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Amides, C12-18 and C18- unsatd., N,N- bis(hydroxyethyl) 90622-74-5	LC50	> 1 - 10 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346/1-3 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)])
Alcohols C13, branched EO 69011-36-5	LC50	3,2 mg/l	48 h	Leuciscus idus melanotus	DIN 38412-15
Alcohols C13, branched EO 69011-36-5	NOEC	> 0,1 - 1 mg/l	21 d		OECD Guideline 210 (fish early lite stage toxicity test)
cumene 98-82-8	LC50	4,8 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Methyl-1H-benzotriazole 29385-43-1	LC50	31 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346/1-3 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)])

#### Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Solvent naphtha (petroleum),	EL50	1,4 mg/l	48 h	Daphnia magna	OECD Guideline 202

heavy arom. 64742-94-5					(Daphnia sp. Acute Immobilisation Test)
2-Butoxyethanol 111-76-2	EC50	1.550 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Methylpentane-2,4-diol 107-41-5	EC50	3.200 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	EC50	< 1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Naphthalene 91-20-3	EC50	2,16 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols C13, branched EO 69011-36-5	EC50	1,4 mg/l	24 h	Daphnia magna	not specified
cumene 98-82-8	EC50	2,14 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methyl-1H-benzotriazole 29385-43-1	EC50	8,58 mg/l	48 h	Daphnia galeata	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Solvent naphtha (petroleum), heavy arom. 64742-94-5	NOEL	0,48 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2-Butoxyethanol 111-76-2	NOEC	100 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	NOEC	> 0,1 - 1,0 mg/l	21 day		OECD 211 (Daphnia magna, Reproduction Test)
Naphthalene 91-20-3	NOEC	0,59 mg/l	125 d	Daphnia pulex	other guideline:
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	NOEC	> 0,01 - 0,1 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Alcohols C13, branched EO 69011-36-5	NOEC	0,37 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
cumene 98-82-8	NOEC	0,35 mg/l	21 day	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Methyl-1H-benzotriazole 29385-43-1	EC10	0,4 mg/l	21 d	Daphnia galeata	OECD 211 (Daphnia magna, Reproduction Test)

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Solvent naphtha (petroleum), heavy arom. 64742-94-5	EL50	> 1 - < 3 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Solvent naphtha (petroleum), heavy arom. 64742-94-5	NOELR	1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Butoxyethanol 111-76-2	EC50	1.840 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Butoxyethanol 111-76-2	NOEC	286 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Methylpentane-2,4-diol 107-41-5	NOEC	> 429 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Methylpentane-2,4-diol 107-41-5	EC50	> 429 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	EC50	< 1 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Naphthalene 91-20-3	EC50	2,96 mg/l	4 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	other guideline:
Alcohols C13, branched EO 69011-36-5	EC50	> 1 - 10 mg/l	72 h		OECD Guideline 201 (Alga, Growth Inhibition Test)
cumene 98-82-8	EC50	2,01 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
cumene 98-82-8	EC10	1,35 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methyl-1H-benzotriazole 29385-43-1	EC50	53 mg/l	72 h	Skeletonema costatum	ISO 10253:2006 (Marine algal growth inhibition test)
Methyl-1H-benzotriazole 29385-43-1	NOEC	30 mg/l	72 h	Skeletonema costatum	ISO 10253:2006 (Marine algal growth inhibition test)

#### Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2-Butoxyethanol 111-76-2	EC0	1.000 mg/l	30 min		not specified
2-Methylpentane-2,4-diol 107-41-5	EC0	2.000 mg/l	16 h		not specified
Naphthalene 91-20-3	EC10	> 20 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
Amides, C12-18 and C18- unsatd., N,N- bis(hydroxyethyl) 90622-74-5	EC0	> 100 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
cumene 98-82-8	EC10	211 mg/l	24 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
Methyl-1H-benzotriazole 29385-43-1	EC50	330 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

#### 12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Solvent naphtha (petroleum), heavy arom. 64742-94-5	readily biodegradable, but failing 10-day window	aerobic	61 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
2-Butoxyethanol 111-76-2	readily biodegradable	aerobic	73 %	30 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
2-Methylpentane-2,4-diol 107-41-5	readily biodegradable	aerobic	90 %	28 d	ISO 10708 (BODIS-Test)
Fatty alcohol, C12-15, ethoxylate 68131-39-5	readily biodegradable	aerobic	71 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Naphthalene 91-20-3	readily biodegradable	aerobic	> 74 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Amides, C12-18 and C18- unsatd., N,N- bis(hydroxyethyl) 90622-74-5	readily biodegradable	aerobic	84 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Alcohols C13, branched EO 69011-36-5	readily biodegradable		> 60 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
cumene 98-82-8	readily biodegradable	aerobic	86 %	28 d	ISO 10708 (BODIS-Test)
Methyl-1H-benzotriazole 29385-43-1	not readily biodegradable.	aerobic	4 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Methyl-1H-benzotriazole 29385-43-1	not inherently biodegradable	aerobic	77 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)

### 12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Naphthalene 91-20-3	> 23 - 168	56 d		Cyprinus carpio	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
cumene 98-82-8	35,5			Carassius auratus	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

**12.4. Mobility in soil**

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
2-Butoxyethanol 111-76-2	0,81	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2-Methylpentane-2,4-diol 107-41-5	0,58		not specified
Naphthalene 91-20-3	3,4	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	4,2	25 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method)
cumene 98-82-8	3,55	23 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Methyl-1H-benzotriazole 29385-43-1	1,079 - 1,083	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

**12.5. Results of PBT and vPvB assessment**

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
Solvent naphtha (petroleum), heavy arom. 64742-94-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-Butoxyethanol 111-76-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-Methylpentane-2,4-diol 107-41-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Naphthalene 91-20-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Alcohols C13, branched EO 69011-36-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
cumene 98-82-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Methyl-1H-benzotriazole 29385-43-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

**12.6. Endocrine disrupting properties**

not applicable

**12.7. Other adverse effects**

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

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

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

EWC/EAK 070608

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.



<b>SECTION 14: Transport information</b>
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**14.1. UN number or ID number**

ADR	3082
RID	3082
ADN	3082
IMDG	3082
IATA	3082

**14.2. UN proper shipping name**

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent Naphtha (Petroleum), heavy aromatic,Naphthalene)
RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent Naphtha (Petroleum), heavy aromatic,Naphthalene)
ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent Naphtha (Petroleum), heavy aromatic,Naphthalene)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent Naphtha (Petroleum), heavy aromatic,Naphthalene)
IATA	Environmentally hazardous substance, liquid, n.o.s. (Solvent Naphtha (Petroleum), heavy aromatic,Naphthalene)

**14.3. Transport hazard class(es)**

ADR	9
RID	9
ADN	9
IMDG	9
IATA	9

**14.4. Packing group**

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

**14.5. Environmental hazards**

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDG	Marine Pollutant
IATA	Environmentally Hazardous

**14.6. Special precautions for user**

ADR	not applicable Tunnelcode:
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	36,4 %

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

**National regulations/information (Great Britain):**

Remarks	Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, e.g COSHH Essentials. EH40 Occupational Exposure Limits Chemicals (Hazard Information & Packaging for Supply) Regulations. The Personnel Protective Equipment at Work Regulations. The Carriage of Dangerous Goods by Road Regulations. The Health & Safety at Work Act 1974. (Note: Use latest editions/amendments of above referenced documents.)
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## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapour.  
 H228 Flammable solid.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H331 Toxic if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H350 May cause cancer.  
 H351 Suspected of causing cancer.  
 H361d Suspected of damaging the unborn child.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

### Further information:

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