

# SAFETY DATA SHEET

according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

## CLEAMEN 145 deepon

Date of issue: 26. 11. 2012

Version: 5.0

Date of revision: 01. 02. 2019

Replaced version from: 12. 10. 2018

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

#### 1.1 Product identifier

**Product Name**

**CLEAMEN 145 deepon**

**Product code**

VC145XXXX98-CLP

**Mixture description**

An aqueous solution.

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

**Identified uses**

Slightly alkaline non-foaming agent for cleaning all hard floor surfaces resistant to water.

**Uses advised against**

Do not use on raw wood surfaces.

It is recommended to use it only for the intended use. Other uses may expose users to unpredictable risks.

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

**CORMEN s.r.o.**

Průmyslová 1420

593 01 Bystřice nad Pernštejnem

Czech Republic

Tel.: +420 566 550 961

Fax: +420 566 551 822

e-mail address for a competent person responsible for the SDS: [info@cormen.cz](mailto:info@cormen.cz)

#### 1.4 Emergency telephone number

112 (General emergency phone), 998 (fire brigade), 999 (ambulance service).

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The mixture is classified as **dangerous** according to regulation 1272/2008/EC.

**Classification according to 1272/2008/EC**

**Eye Dam. 1; H318**

Full text of classifications and H-phrases: see section 16.

**The most important adverse physicochemical, human health and environmental effects**

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Causes serious eye damage.

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

Danger

#### Components of the mixture to be placed on the label

Contain Alcohols, C10-12, ethoxylated propoxylated

#### Hazard statements

H318 - Causes serious eye damage.

#### Precautionary statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### Supplemental hazard information

EUH208 - Contains Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

Composition:  $\geq 30\%$  water, 5 -  $< 15\%$  neionic surfactants, propan-2-ol,  $< 5\%$  butyl glycol, amphoteric surfactants, triethanolamine, diethanolamine, perfumes.

### 2.3 Other hazards

Mixture or its components are not classified as PBT or vPvB, not the date of issue of the safety data sheet kept on the candidate list for Annex XIV of the REACH Regulation.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

An aqueous solution.

#### 3.2.1 Components of a mixture classified as hazardous

Identification of substance	Content wt. %	Classification according to 1272/2008/EC
Alcohols, C10-12, ethoxylated propoxylated		

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CAS Number	68154-97-2		
EC Number	614-340-8		Acute Tox. 4; H302
Index Number	not given	≤ 10	Eye Dam. 1; H318
Registration Number	is not subject to registration, it is a polymer		
<b>Propan-2-ol; Isopropyl alcohol; Isopropanol</b>			
CAS Number	67-63-0		Flam. Liq. 2; H225
EC Number	200-661-7	≤ 6	Eye Irrit. 2; H319
Index Number	603-117-00-0		STOT SE 3; H336
Registration Number	01-2119457558-25-XXXX		
<b>2-Butoxyethanol; Ethylene glycol monobutyl ether; Butyl cellosolve</b>			
CAS Number	111-76-2		Acute Tox. 4; H302
EC Number	203-905-0	≤ 5	Acute Tox. 4; H312
Index Number	603-014-00-0		Skin Irrit. 2; H315
Registration Number	01-2119475108-36-XXXX		
<b>Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</b>			
CAS Number	55965-84-9		Acute Tox. 3; H301
EC Number	not given		Acute Tox. 3; H311
Index Number	613-167-00-5	< 0.0015	Skin Corr. 1B; H314
Registration Number	not yet available		
			Skin Sens. 1; H317
			Acute Tox. 3; H331
			Aquatic Acute 1; H400
			Aquatic Chronic 1; H410
			M=10
			M(Chronic)=10
The substance has specific concentration limits: C ≥ 0.6 %: Skin Corr. 1B; H314, 0.06 % ≤ C < 0.6 %: Skin Irrit. 2; H315, 0.06 % ≤ C < 0.6 %: Eye Irrit. 2; H319, C ≥ 0.0015 %: Skin Sens. 1; H317			
Full text of classifications and H-phrases: see section 16.			
<b>SECTION 4: First aid measures</b>			
In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. An unconscious person never give anything. Protect yourself during rescue work.			
<b>4.1 Description of first aid measures</b>			
<b>Inhalation</b>			
Interrupt the exposure, transfer the person to the fresh air. In case of persistent nausea, seek medical advice.			
<b>Skin contact</b>			
Remove contaminated clothing, shoes, and wash thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.			
<b>Eye contact</b>			
Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Seek medical advice.			

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### **Ingestion**

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

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

Are not known.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

##### Small fire:

Carbon dioxide CO<sub>2</sub>, dry extinguishing agent, sand or earth, alcohol resistant foam.

##### Extensive fire:

Fragmented water streams (water mist), alcohol resistant foam.

#### **Unsuitable extinguishing media**

Solid streams of water may be ineffective.

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

In case of fire extinguishing prevent leakage of water and rest of product into drains. Collect them separately and dispose of safely in accordance with current legislation and applicable local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides, sulphur oxides, hydrogen sulphide, ammonia, nitrogen oxides, chlorine, chlorine oxides, hydrogen chloride and products of incomplete combustion.

### **5.3 Advice for firefighters**

Stop further leakage of product if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can't be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Avoid formation of mist and vapour. At the point of leakage, prevent the movement of unauthorized persons.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

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

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According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermiculite, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal. Do not use solvents or dispersants unless instructed by an expert or government authority.

If container is damaged, remove the content to the new undamaged container and label it properly again.

### 6.4 Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Personal protection see Section 8. Ensure good ventilation to prevent formation of mist and vapour.

Smoking, eating and drinking should be prohibited at the place of use. In place of use should be forbidden to smoke, eat or drink. Do not use dirty clothing. After work wash yourself carefully with warm water and soap, take a shower. Use protective cream.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at room temperature. Protect from frost.

### 7.3 Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 8.1.1 Exposure limit value

**2-Butoxyethanol** CAS: 111-76-2

Limit values - Eight hours	Limit values - Short-term	Note
98 mg/m <sup>3</sup> 20 ppm	246 mg/m <sup>3</sup> 50 ppm	-

#### 8.1.2 Biological limit values

Not are determined in EU

#### 8.1.4 DNEL and PNEC values

**Propan-2-ol** CAS: 67-63-0

#### DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	500 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	888 mg/kg/day
General population	Inhalation	Systemic effect	Long term	89 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	319 mg/kg/day
General population	Oral	Systemic effect	Long term	26 mg/kg/day

#### PNEC

Fresh water	Marine water	Intermittent releases
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		Fresh water	Marine water	Sewage Treatment Plant (STP)
140.9 mg/l	140.9 mg/l	140.9 mg/l	not given	2 251 mg/l
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
552 mg/kg	552 mg/kg	not given	28 mg/kg	160 mg/kg food
<b>2-Butoxyethanol</b>				CAS: 111-76-2
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	98 mg/m <sup>3</sup>
Workers	Inhalation	Systemic effect	Acute/short term	1 091 mg/m <sup>3</sup>
Workers	Inhalation	Local effect	Acute/short term	246 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	125 mg/kg/day
Workers	Dermal	Systemic effect	Acute/short term	89 mg/kg/day
General population	Inhalation	Systemic effect	Long term	59 mg/m <sup>3</sup>
General population	Inhalation	Systemic effect	Acute/short term	426 mg/m <sup>3</sup>
General population	Inhalation	Local effect	Acute/short term	147 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	75 mg/kg/day
General population	Dermal	Systemic effect	Acute/short term	89 mg/kg/day
General population	Oral	Systemic effect	Long term	6.3 mg/kg/day
General population	Oral	Systemic effect	Acute/short term	26.7 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
8.8 mg/l	0.88 mg/l	26.4 mg/l	not given	463 mg/l
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
34.6 mg/kg	3.46 mg/kg	not given	2.33 mg/kg	0.02 g/kg food
<b>8.2 Exposure controls</b>				
<b>8.2.1 Workers exposure controls</b>				
Use only in well-ventilated areas. Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.				
<b>8.2.2 Individual protection measures, such as personal protective equipment</b>				
Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.				
<b>Respiratory protection</b>				



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Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator against organic vapour). In the event of an accident or a fire use self-contained breathing apparatus.

### **Hand protection**

Chemically resistant protective gloves. As there are no tests, it is not possible to recommend the glove material for this mixture. The selection of the glove material on consideration of the breakthrough time, permeability and degradation.

### **Eye/face protection**

Wear safety goggles or face shield.

### **Skin protection**

Suitable protective working clothing and footwear.

### **8.2.3 Environmental exposure controls**

Uncontrolled release of the mixture into environment is to be avoided. Observe the emission limits.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic
<b>Odour threshold</b>	not determined
<b>pH</b>	9
<b>Melting point/freezing point</b>	not determined
<b>Initial boiling point and boiling range</b>	82 C
<b>Flash point</b>	> 60 C
<b>Evaporation rate</b>	not determined
<b>Flammability (solid, gas)</b>	not determined
<b>Lower flammability or explosive limits</b>	not determined not determined
<b>Upper flammability or explosive limits</b>	not determined
<b>Vapour pressure</b>	23 hPa
<b>Vapour density</b>	not determined
<b>Relative density</b>	0.98286 (water = 1)
<b>Solubility in water</b>	miscible
<b>Solubility in organic solvents</b>	not determined
<b>Partition coefficient: n-octanol/water</b>	not determined
<b>Auto-ignition temperature</b>	240 C
<b>Decomposition temperature</b>	not determined
<b>Viscosity</b>	not determined
<b>Explosive properties</b>	is not classified as explosive
<b>Oxidising properties</b>	is not classified as an oxidant

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### 9.2 Other information

<b>Organic solvents</b>	9.9 %
<b>Water</b>	77.9 %
<b>VOC</b>	9.85 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The mixture is stable under normal conditions of use. Dangerous reactions do not occur.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Not known.

### 10.4 Conditions to avoid

Protect from frost.

### 10.5 Incompatible materials

Not known.

### 10.6 Hazardous decomposition products

Burning releases carbon oxides, sulphur oxides, hydrogen sulphide, ammonia, nitrogen oxides, chlorine, chlorine oxides, hydrogen chloride and products of incomplete combustion.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

#### Acute toxicity

**Oral** data for the mixture are not available  
the mixture is not classified by the additive formula  
 $ATE_{mixture} > 4\,229 \text{ mg/kg}$

**Dermal** data for the mixture are not available  
the mixture is not classified by the additive formula  
 $ATE_{mixture} > 21\,975 \text{ mg/kg}$

**Inhalation** data for the mixture are not available  
the mixture is not classified by the additive formula  
 $ATE_{mixture} > 220 \text{ mg/l (vapour)}$   
 $ATE_{mixture} > 33\,333 \text{ mg/l (aerosol)}$

#### Skin corrosion/irritation

data for the mixture are not available  
the mixture is not classified as skin irritant based on the general/specific concentration limits of substance(s)

#### Serious eye damage/irritation



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data for the mixture are not available

the mixture is classified as causes serious eye damage based on the general/specific concentration limits of substance(s)

### **Respiratory or skin sensitisation**

data for the mixture are not available

the mixture is not classified as a skin sensitizing according to the general/specific concentration limits of substance(s)

Contains Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

### **Germ cell mutagenicity**

data for the mixture are not available

the mixture does not contain substances classified as mutagenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3

### **Carcinogenicity**

data for the mixture are not available

the mixture does not contain substances classified as carcinogenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3

### **Reproductive toxicity**

data for the mixture are not available

the mixture does not contain substances classified as toxic for reproduction or the concentration of substance(s) is lower than the limit for inclusion in Section 3

### **Specific target organ toxicity – single exposure**

data for the mixture are not available

the mixture is classified as toxic for specific target organs in a single exposure in category 3 according to the recommended concentration limits of substance(s) s

### **Specific target organ toxicity – repeated exposure**

data for the mixture are not available

the mixture is not classified as toxic for specific target organs in a repeated exposure according to the general/specific concentration limits of substance(s)

### **Aspiration hazard**

data for the mixture are not available

the mixture does not contain substances classified as aspiration hazard or the concentration of substance(s) is lower than the limit for inclusion in Section 3

### **Other information**

See section 2 and 4.

**Alcohols, C10-12, ethoxylated propoxylated**

CAS: 68154-97-2

### **Acute toxicity**

**Oral** the substance is classified in category 4  
LD<sub>50</sub> = 950 mg/kg (rat)

**Dermal** data for the substance are not available

**Inhalation** data for the substance are not available

### **Skin corrosion/irritation**

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data for the substance are not available

### **Serious eye damage/irritation**

data for the substance are not available

### **Respiratory or skin sensitisation**

data for the substance are not available

### **Germ cell mutagenicity**

data for the substance are not available

### **Carcinogenicity**

data for the substance are not available

### **Reproductive toxicity**

data for the substance are not available

### **Specific target organ toxicity – single exposure**

data for the substance are not available

### **Specific target organ toxicity – repeated exposure**

data for the substance are not available

### **Aspiration hazard**

the substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C

**Propan-2-ol**

CAS: 67-63-0

### **Acute toxicity**

**Oral** based on available data, the classification criteria are not met  
LD<sub>50</sub> = 5 840 mg/kg (rat)

**Dermal** based on available data, the classification criteria are not met  
LD<sub>50</sub> = 16.4 ml/kg (12 792 mg/kg at a density of 0.78 g/cm<sup>3</sup>, rabbit)

**Inhalation** data for the substance are not available  
LC<sub>50</sub> > 10 000 ppm (vapour, 6 h)

### **Skin corrosion/irritation**

based on available data, the classification criteria are not met  
mean erythema score = 0 and oedema = 0 (rabbit, 72 h, OECD 404)

### **Serious eye damage/irritation**

classified as irritating to eyes, total mean irritation score = 1.89 (rabbit, 72 h, OECD 405)

### **Respiratory or skin sensitisation**

based on available data, the classification criteria are not met  
not skin sensitising (guinea pig, OECD 406)

### **Germ cell mutagenicity**

based on available data, the classification criteria are not met  
negative (OECD 471, OECD 476)

### **Carcinogenicity**

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based on available data, the classification criteria are not met  
NOAEL = 5 000 ppm (testicular tumors, rat, male, vapour, OECD 451)

### **Reproductive toxicity**

based on available data, the classification criteria are not met  
NOAEL = 853 mg/kg/day (rat, oral, generation P0, OECD 415)

### **Specific target organ toxicity – single exposure**

the substance may cause drowsiness or dizziness

### **Specific target organ toxicity – repeated exposure**

based on available data, the classification criteria are not met  
NOEC = 500 ppm (specific toxic effect, rat, vapour, 104 weeks, OECD 451)  
NOAEC = 5 000 ppm (specific exposure-related adverse reaction, rat, vapour, 104 weeks, OECD 451)  
NOEC = 5 000 ppm (effects of oncogenicity, rat, vapour, 104 weeks, OECD 451)

### **Aspiration hazard**

the substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C

## **2-Butoxyethanol**

CAS: 111-76-2

### **Acute toxicity**

**Oral** the substance is classified in category 4  
LD<sub>50</sub> = 1 414 mg/kg (rat)

**Dermal** the substance is classified in category 4 according to the harmonized classification  
LD<sub>50</sub> > 2 000 mg/kg (rat)  
ATE = 1 100 mg/kg (for calculation by additive formula)

**Inhalation** the substance is classified in category 4 according to the harmonized classification  
LC<sub>0</sub> > 4.9 mg/l (vapour, rat, 4 hrs)  
ATE = 11 mg/l (vapour, for calculation by additive formula)

### **Skin corrosion/irritation**

classified as skin irritant, mean erythema score = 1.7 (not fully reversible after 14 days) and edema = 0.13 (not fully reversible after 14 days) (rabbit, EU method B.4)

### **Serious eye damage/irritation**

classified as eye irritant, mean corneal opacity = 0.89 (fully reversible after 21 days), iritis = 0.56 (fully reversible after 7 days), conjunctival redness = 2.6 (fully reversible after 21 days) = 1.8 (fully reversible after 14 days) (rabbit, 72 h, OECD 405)

### **Respiratory or skin sensitisation**

based on available data, the classification criteria are not met  
not skin sensitising (guinea pig, maximization test)

### **Germ cell mutagenicity**

based on available data, the classification criteria are not met  
negative (OECD 471, OECD 473, OECD 476)

### **Carcinogenicity**

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based on available data, the classification criteria are not met

NOAEC = 125 ppm (liver hemangiocarcomas, rat, male, vapour, OECD 451)

NOAEC = 125 ppm (forestomach tumors, rat, female, vapour, OECD 451)

### **Reproductive toxicity**

based on available data, the classification criteria are not met

NOAEL = 720 mg/kg/day (body weight loss, mortality, reproductive performance, mouse, oral, generation P0)

LOAEL = 720 mg/kg/day (water consumption and compound intake, mouse, oral, generation P0)

NOAEL = 720 mg/kg/day (pup weight, mouse, orally, generation F1)

NOAEL = 720 mg/kg/day (no effect, mouse, oral, generation F2)

### **Specific target organ toxicity – single exposure**

the substance may cause drowsiness or dizziness

### **Specific target organ toxicity – repeated exposure**

based on available data, the classification criteria are not met

NOAEL < 69 mg/kg/day (histopathology, rat, male, oral, 90 days, OECD 408)

NOAEL < 82 mg/kg/day (histopathology and hematology, rat, female, oral, 90 days, OECD 408)

### **Aspiration hazard**

the substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C

## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Mixture**

##### **Fish**

data for the mixture are not available

##### **Crustaceans**

data for the mixture are not available

##### **Algae**

data for the mixture are not available

#### **Alcohols, C10-12, ethoxylated propoxylated**

CAS: 68154-97-2

the substance is not classified as dangerous for the aquatic environment

##### **Fish**

data for the substance are not available

##### **Crustaceans**

EC<sub>50</sub>, 48 hrs., Daphnia Magna: 12 mg/l

##### **Algae**

data for the substance are not available

#### **Propan-2-ol**

CAS: 67-63-0

the substance is not classified as dangerous for the aquatic environment

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<b>Fish</b>	
LC <sub>50</sub> , 96 hrs., Pimephales promelas: 9 640 - 10 000 mg/l (mortality)	
<b>Crustaceans</b>	
EC <sub>50</sub> , 24 hrs., Daphnia Magna: > 10 000 mg/l (mobility) logNOEC, 16 d., Daphnia Magna: 3.37 (growth, NOEC = 2 344 µmol/l = 140.9 mg/l)	
<b>Algae</b>	
threshold toxicity, 7 d., Scenedesmus quadricauda: 1.800 mg/l	
<b>2-Butoxyethanol</b>	CAS: 111-76-2
the substance is not classified as dangerous for the aquatic environment	
<b>Fish</b>	
LC <sub>50</sub> , 96 hrs., Oncorhynchus mykiss: 1 474 (mortality) NOEC, 21 d., Brachydanio rerio: > 100 mg/l (markers for endocrine disruptive effects)	
<b>Crustaceans</b>	
EC <sub>50</sub> , 48 hrs., Daphnia Magna: 1 550 mg/l (mobility) EC <sub>10</sub> , 21 d., Daphnia Magna: 1 800 mg/l (mortality) NOEC, 21 d., Daphnia Magna: 100 mg/l (reproduction)	
<b>Algae</b>	
EC <sub>50</sub> , 72 hrs., Selenastrum capricornutum: 911 mg/l (biomass) EC <sub>50</sub> , 72 hrs., Selenastrum capricornutum: 1 840 mg/l (growth rate) EC <sub>10</sub> , 72 hrs., Selenastrum capricornutum: 308 mg/l (biomass) EC <sub>10</sub> , 72 hrs., Selenastrum capricornutum: 679 mg/l (growth rate) NOEC, 72 hrs., Selenastrum capricornutum: 88 mg/l (biomass) NOEC, 72 hrs., Selenastrum capricornutum: 286 mg/l (growth rate)	
<b>12.2 Persistence and degradability</b>	
<b>Mixture</b>	
data for the mixture are not available The surfactants contained in this preparation in accordance with the biodegradability criteria according to Regulation (EC) No. 648/2004 on detergents.	
<b>Alcohols, C10-12, ethoxylated propoxylated</b>	CAS: 68154-97-2
readily biodegradable: 93 % after 28 days (removal of dissolved organic carbon, OECD 302)	
<b>Propan-2-ol</b>	CAS: 67-63-0
readily biodegradable: 53 % after 5 days (CO <sub>2</sub> evolution, OECD 301 B)	
<b>2-Butoxyethanol</b>	CAS: 111-76-2
readily biodegradable: 90.4% after 28 days (CO <sub>2</sub> evolution, OECD 301 B)	
<b>12.3 Bioaccumulative potential</b>	
<b>Mixture</b>	
data for the mixture are not available	
<b>Propan-2-ol</b>	CAS: 67-63-0

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log Pow = 0.05 (25 °C)

**2-Butoxyethanol**

CAS: 111-76-2

log Pow = 0.81 (25 °C, pH = 7)

### 12.4 Mobility in soil

#### Mixture

data for the mixture are not available

**Propan-2-ol**

CAS: 67-63-0

data for the substance are not available

**2-Butoxyethanol**

CAS: 111-76-2

data for the substance are not available

### 12.5 Results of PBT and vPvB assessment

Mixture or its components are not classified as PBT or vPvB, not the date of issue of the safety data sheet kept on the candidate list for Annex XIV of the REACH Regulation.

### 12.6 Other adverse effects

data are not available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Disposal methods of the substance or mixture and the contaminated packaging

Delete according to the applicable European and local regulations (eg. in a hazardous waste incinerator). **Never remove flushing into sewer!** Do not contaminate ponds or ditches with chemical or used container. Residual amounts and solutions to a licensed disposal company.

For classifying the waste and the removal of waste producer responsibility.

#### Possible waste code

07 06 01\* - aqueous washing liquids and mother liquors (mixture), 15 01 10\* - packaging containing residues of or contaminated by dangerous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging)

#### Physical/chemical properties that may affect waste treatment options

None known.

#### Special precautions recommended for waste management

None known.

#### Waste legislation

Directive 2008/98/EC

## SECTION 14: Transport information

This product is not classified as a dangerous for transportation (ADR/RID, IMDG, ICAO/IATA).

### 14.1 UN number

not given

### 14.2 UN proper shipping name

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ADR/RID/IMDG/IATA not given

### 14.3 Transport hazard class(es)

not given

### 14.4 Packing group

not given

### 14.5 Environmental hazards

it is not dangerous for the environment during transport

### 14.6 Special precautions for user

not given

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

not available

### 14.8 Other information

#### Labeling according to ADR

not given

#### Additional data for ADR/RID

classification code not given

labels not given

hazard identification code not given

tunnel restriction code not given

#### Additional data for IMDG

Emergency Schedules (EmS) not given

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation No. 1907/2006/ES, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as subsequently amended (REACH)

Regulation No. 1272/2008/ES, on Classification, Labelling and Packaging of substances and mixtures, as subsequently amended (CLP)

### 15.2 Chemical safety assessment

No data available

## SECTION 16: Other information

### Reason for the revision of the safety data sheet

Change in the classification and labeling of the mixture in section 2, change of composition in section 3 and related changes in the other sections of the safety data sheet.

### Key or legend to abbreviations and acronyms

Acute Tox. 3 Acute toxicity, cat. 3



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Acute Tox. 4	Acute toxicity, cat. 4
Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 1	Chronic aquatic hazard, cat. 1
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 2	Flammable liquid, cat. 2
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1	Skin sensitization, cat. 1
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
M	Multiplying factor
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, bioaccumulative, toxic substance
PNEC	Predicted No Effect Concentration
REACH	Regulation No. 1907/2006/EC
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
VOC	Volatile organic compound
vPvB	Very persistent and very bioaccumulative substance

### **Sources of key data used to compile the Safety Data Sheet**

European legislation, manufacturer's safety data sheet, registration dossier of substances.

### **List of H- and P- phrases**

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.

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H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### **Training advice**

According to MSDS.

### **Other information**

The mixture is classified using calculation methods according to Regulation CLP and tests. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

The safety data sheet was created by company LACHEPRA s.r.o.