

# SAFETY DATA SHEET

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

## CLEAMEN GASTRO PROFESSIONAL Strong grease

Date of revision: 15. 01. 2024

Version: 3.0

Replaced version from: 26. 09. 2023

Date of issue: 17. 12. 2021

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

#### 1.1. Product identifier

##### Product Name

**CLEAMEN GASTRO PROFESSIONAL Strong grease**

##### UFI code

UFI: PVR0-H0DR-E00R-QX5E

##### Product code

TCGMS01.

##### Mixture description

Water solution.

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

##### Identified uses

The liquid product is intended for cleaning all kitchen surfaces and equipment, including stainless steel and laminate surfaces.

Professional use.

##### Uses advised against

The product is not suitable for alkali-sensitive surfaces, especially aluminum. If used, do not leave them on for a long time. Do not use on floors treated with metallic waxes, as they will be washed away.

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.

Věchnov 73

593 01

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).

### SECTION 2: Hazards identification

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

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

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### Classification according to 1272/2008/EC

Flam. Liq. 3; H226

Skin Corr. 1; H314

Eye Dam. 1; H318

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

### The most important adverse physical, human health and environmental effects

Flammable liquid and vapour. Causes severe skin burns and eye damage.

## 2.2. Label elements

### Hazard pictograms



### Signal word

Danger.

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

Contains Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, Alcohols, C12-14, ethoxylated, sulfates, sodium salts, Sodium hydroxide.

### Hazard statements

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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.

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-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Composition according to regulation 648/2004/EC on detergents:  $\geq 5$  -  $< 15$  % anionic surfactants,  $< 5$  % non-ionic surfactants, phosphates, perfumes, preservation agents (METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE).

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### 2.3. Other hazards

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation., Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### 3.2.1. Substances of a mixture classified as hazardous

Identification of substance		Content wt. %	Classification according to 1272/2008/EC
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			
CAS Number	68411-30-3	< 7.5	Acute Tox. 4; H302
EC Number	270-115-0		Skin Irrit. 2; H315
Index Number	not given		Eye Dam. 1; H318
Registration Number	01-2119489428-22-XXXX		Aquatic Chronic 3; H412
Propan-2-ol; Isopropyl alcohol; Isopropanol			
CAS Number	67-63-0	≤ 5.0	Flam. Liq. 2; H225
EC Number	200-661-7		Eye Irrit. 2; H319
Index Number	603-117-00-0		STOT SE 3; H336
Registration Number	01-2119457558-25-XXXX		
2-Butoxyethanol; Ethylene glycol monobutyl ether; Butyl cellosolve			
CAS Number	111-76-2	≤ 2.5	Acute Tox. 4; H302
EC Number	203-905-0		Skin Irrit. 2; H315
Index Number	603-014-00-0		Eye Irrit. 2; H319
Registration Number	01-2119475108-36-XXXX		Acute Tox. 3; H331
			ATE <sub>oral</sub> = 1 200 mg/kg bw
			ATE <sub>inhalation</sub> = 3 mg/L (vapours)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts			
CAS Number	68891-38-3	< 2.5	Skin Irrit. 2; H315
EC Number	500-234-8		Eye Dam. 1; H318
Index Number	not given		Aquatic Chronic 3; H412
Registration Number	01-2119488639-16-XXXX		
The substance has specific concentration limits:			
Eye Dam. 1; H318		C ≥ 10 %	
Eye Irrit. 2; H319		5 % < C < 10 %	
Sodium hydroxide; Caustic soda			

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CAS Number	1310-73-2		Met. Corr. 1; H290
EC Number	215-185-5		Skin Corr. 1A; H314
Index Number	011-002-00-6	< 0.8	Eye Dam. 1; H318
Registration Number	01-2119457892-27-XXXX		

The substance has specific concentration limits:

Skin Corr. 1A; H314	$C \geq 5 \%$
Skin Corr. 1B; H314	$2 \% \leq C < 5 \%$
Skin Irrit. 2; H315	$0.5 \% \leq C < 2 \%$
Eye Irrit. 2; H319	$0.5 \% \leq C < 2 \%$

### Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

		Acute Tox. 3; H301
		Acute Tox. 2; H310
		Skin Corr. 1C; H314
		Eye Dam. 1; H318
CAS Number	55965-84-9	Skin Sens. 1A; H317
EC Number	not given	Acute Tox. 2; H330
Index Number	613-167-00-5	Aquatic Acute 1; H400
Registration Number	not yet available	Aquatic Chronic 1; H410
		EUH071
		M=100
		M(Chronic)=100

The substance has specific concentration limits:

Skin Corr. 1C; H314	$C \geq 0.6 \%$
Eye Dam. 1; H318	$C \geq 0.6 \%$
Skin Irrit. 2; H315	$0.06 \% \leq C < 0.6 \%$
Eye Irrit. 2; H319	$0.06 \% \leq C < 0.6 \%$
Skin Sens. 1A; H317	$C \geq 0.0015 \%$

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

## SECTION 4: First aid measures

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.

### 4.1. Description of first aid measures

#### Inhalation

Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.

#### Skin contact

Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. Seek medical advice.

#### Eye contact

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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.

### ***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 and supportively.

## **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, nitrogen oxides, ammonia, 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 vapour and aerosol. 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 vapor and aerosol.

Smoking, eating and drinking should be prohibited at the place of use. Keep safety regulations for handling chemicals. Take off contaminated clothing and protective equipment before entering the dining area. 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

### 7.3. Specific end use(s)

See subsection 1.2.

## 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

skin

#### 8.1.2. Biological limit values

Not determined in EU.

#### 8.1.3. DNEL and PNEC values

##### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

CAS: 68411-30-3

##### DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	7.6 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	119 mg/kg/day
General population	Inhalation	Systemic effect	Long term	1.3 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	42.5 mg/kg/day
General population	Oral	Systemic effect	Long term	0.425 mg/kg/day



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Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
0.268 mg/l	0.027 mg/l	Fresh water	Marine water	3.43 mg/l
		0.017 mg/l	not given	
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
8.1 mg/l	6.8 mg/kg	no effect	35 mg/kg	no effect
<b>Propan-2-ol</b>				CAS: 67-63-0
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	500 mg/m <sup>3</sup>
Workers	Inhalation	Systemic effect	Acute/short term	1 000 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	Inhalation	Systemic effect	Acute/short term	178 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
General population	Oral	Systemic effect	Acute/short term	51 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
140.9 mg/l	140.9 mg/l	Fresh water	Marine water	2 251 mg/l
		140.9 mg/l	not given	
<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>
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	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>				

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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	no effect	2.33 mg/kg	0.02 g/kg food
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>				CAS: 68891-38-3
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	175 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	2 750 mg/kg/day
Workers	Dermal	Local effect	Long term	132 µg/cm <sup>2</sup>
General population	Inhalation	Systemic effect	Long term	52 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	1 650 mg/kg/day
General population	Dermal	Local effect	Long term	79 µg/cm <sup>2</sup>
General population	Oral	Systemic effect	Long term	15 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.24 mg/l	0.024 mg/l	0.071 mg/l	not given	10 g/l
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.917 mg/kg	0.092 mg/kg	no effect	7.5 mg/kg	no effect
<b>Sodium hydroxide</b>				CAS: 1310-73-2
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	1 mg/m <sup>3</sup>
General population	Inhalation	Local effect	Long term	1 mg/m <sup>3</sup>
<b>PNEC - not yet available</b>				
<b>8.2. Exposure controls</b>				
<b>8.2.1. Appropriate engineering 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.				



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### **Eye/face protection**

Wear safety glasses or face shield (EN 166, EN 149+A1).

### **Skin protection - hand protection**

Wear protective gloves (EN 374-1, EN 374-2).

Suitable gloves material: polyvinylchloride, neoprene, nature rubber, butyl-rubber, breakthrough time: 480 min.

Unsuitable gloves material: leather

The selection of the glove material on consideration of the breakthrough time, permeability, degradation and next relevant factors; other chemicals that may come into contact, physical requirements (cut and puncture protection, dexterity, thermal protection), possible body reactions to the glove material and the glove supplier's instructions and specifications. In case of repeated use of gloves, clean and keep them in a well-ventilated place before taking off.

### **Skin protection - other**

Suitable protective working clothing (EN ISO 13688) and protective footwear (EN ISO 20346).

### **Respiratory protection**

Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator against organic vapour, EN 14387). In the event of an accident or a fire use self-contained breathing apparatus.

### **Thermal hazards**

In normal use is not necessary protective equipment to be worn for materials that represent a thermal hazard.

### **8.2.3. Environmental exposure controls**

Uncontrolled release of the mixture into environment is to be avoided. Keep the emission limits according to national legislation.

## SECTION 9: Physical and chemical properties

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

#### **Mixture**

<b>Physical state</b>	Liquid.
<b>Colour</b>	Light brown.
<b>Odour</b>	Characteristic.
<b>Melting point/freezing point</b>	Not determined.
<b>Boiling point or initial boiling point and boiling range</b>	82 °C
<b>Flammability</b>	Not determined.
<b>Lower explosion limit</b>	Not determined.
<b>Upper explosion limit</b>	Not determined.
<b>Flash point</b>	46 °C.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition temperature</b>	Not determined, the mixture does not contain self-reactive substances or organic peroxides or other substances which may decompose.
<b>pH</b>	> 12.

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<b><i>Kinematic viscosity</i></b>	Not determined, the mixture does not contain a substance classified as aspiration toxic, or the sum of the concentrations of substances classified as aspiration toxic is less than 10 wt. %.
<b><i>Solubility</i></b>	Fully miscible.
<b><i>Partition coefficient n-octanol/water (log value)</i></b>	Does not apply to mixture.
<b><i>Vapour pressure</i></b>	Not determined.
<b><i>Density and/or relative density</i></b>	$D_4^{20} = 1.0$ .
<b><i>Relative vapour density</i></b>	Not determined.
<b><i>Particle characteristics</i></b>	Does not apply to liquid.
<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b> <span style="float: right;">CAS: 68411-30-3</span>	
<b><i>Physical state</i></b>	Solid.
<b><i>Colour</i></b>	Not determined.
<b><i>Odour</i></b>	Not determined.
<b><i>Melting point/freezing point</i></b>	> 350 °C (ISO 1218)
<b><i>Boiling point or initial boiling point and boiling range</i></b>	> 400 °C (ASTM E 737-76)
<b><i>Flammability</i></b>	The substance is not classified as flammable (EU method A.10)
<b><i>Lower explosion limit</i></b>	Does not apply to solid.
<b><i>Upper explosion limit</i></b>	Does not apply to solid.
<b><i>Flash point</i></b>	Does not apply to solid.
<b><i>Auto-ignition temperature</i></b>	Does not apply to solid.
<b><i>Decomposition temperature</i></b>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<b><i>pH</i></b>	Not determined.
<b><i>Kinematic viscosity</i></b>	Does not apply to solid.
<b><i>Solubility</i></b>	250 g/l (20 °C)
<b><i>Partition coefficient n-octanol/water (log value)</i></b>	1.4 (23 °C, pH = 6.1, OECD 123)
<b><i>Vapour pressure</i></b>	Not determined, the substance has melting point higher than 300 °C.
<b><i>Density and/or relative density</i></b>	$D_4^{20} = 0.776$ (OECD 109).
<b><i>Relative vapour density</i></b>	Does not apply to solid.
<b><i>Particle characteristics</i></b>	Not determined.
<b>Propan-2-ol</b> <span style="float: right;">CAS: 67-63-0</span>	
<b><i>Physical state</i></b>	Liquid.
<b><i>Colour</i></b>	Colorless.
<b><i>Odour</i></b>	Not determined.

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<b>Melting point/freezing point</b>	-88.5 °C (literature).
<b>Boiling point or initial boiling point and boiling range</b>	82.3 °C (literature).
<b>Flammability</b>	Highly flammable liquid.
<b>Lower explosion limit</b>	2 vol. % (literature).
<b>Upper explosion limit</b>	13 vol. % (literature).
<b>Flash point</b>	11.7 °C (literature).
<b>Auto-ignition temperature</b>	399 - 455.6 °C (literature).
<b>Decomposition temperature</b>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
<b>Solubility</b>	Miscible with water.
<b>Partition coefficient n-octanol/water (log value)</b>	log Pow = 0.05 (25 °C, literature).
<b>Vapour pressure</b>	Not determined.
<b>Density and/or relative density</b>	785.5 kg/m <sup>3</sup> (20 °C, literature).
<b>Relative vapour density</b>	Not determined.
<b>Particle characteristics</b>	Does not apply to liquid.
<b>2-Butoxyethanol</b> CAS: 111-76-2	
<b>Physical state</b>	Liquid.
<b>Colour</b>	Colorless.
<b>Odour</b>	Etheric.
<b>Melting point/freezing point</b>	-74.8 °C (literature).
<b>Boiling point or initial boiling point and boiling range</b>	173.5 °C (IP123/93).
<b>Flammability</b>	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
<b>Lower explosion limit</b>	Not determined.
<b>Upper explosion limit</b>	Not determined.
<b>Flash point</b>	67 °C (DIN 51758).
<b>Auto-ignition temperature</b>	230 °C (literature).
<b>Decomposition temperature</b>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.

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<b>Solubility</b>	900 g/l (20 °C, pH = 7, literature).
<b>Partition coefficient n-octanol/water (log value)</b>	log Pow = 0.81 (25 °C, pH = 7, shake-flask method).
<b>Vapour pressure</b>	0.8 hPa (20 °C, literature).
<b>Density and/or relative density</b>	900 kg/m <sup>3</sup> (20 °C, DIN 51 757).
<b>Relative vapour density</b>	Not determined.
<b>Particle characteristics</b>	Does not apply to liquid.
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b> CAS: 68891-38-3	
<b>Physical state</b>	Solid.
<b>Colour</b>	Yellowish.
<b>Odour</b>	Rancid.
<b>Melting point/freezing point</b>	> 300 °C (ASTM E737-76).
<b>Boiling point or initial boiling point and boiling range</b>	Not determined, the substance has a melting point higher than 300 °C.
<b>Flammability</b>	The substance is not classified as flammable solid (EU method A.10)
<b>Lower explosion limit</b>	Does not apply to solid.
<b>Upper explosion limit</b>	Does not apply to solid.
<b>Flash point</b>	Does not apply to solid.
<b>Auto-ignition temperature</b>	250 °C (EU method A.16)
<b>Decomposition temperature</b>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	280 g/l (20 °C, pH = 6.8, literature).
<b>Partition coefficient n-octanol/water (log value)</b>	log Pow = 0.3 (23 °C, pH = 6.1, OECD 123).
<b>Vapour pressure</b>	Not determined, the substance has melting point higher than 300 °C.
<b>Density and/or relative density</b>	1.08 g/cm <sup>3</sup> (22 °C, OECD 109).
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	Not determined.
<b>Sodium hydroxide</b> CAS: 1310-73-2	
<b>Physical state</b>	Solid.
<b>Colour</b>	White.
<b>Odour</b>	Odourless.
<b>Melting point/freezing point</b>	323 °C (literature).
<b>Boiling point or initial boiling point and boiling range</b>	1 388 °C (literature).

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### **Flammability**

The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.

### **Lower explosion limit**

Does not apply to solid.

### **Upper explosion limit**

Does not apply to solid.

### **Flash point**

Does not apply to solid.

### **Auto-ignition temperature**

Does not apply to solid.

### **Decomposition temperature**

Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.

### **pH**

Not determined, strong alkaline substance.

### **Kinematic viscosity**

Does not apply to solid.

### **Solubility**

100 g/100 g H<sub>2</sub>O (25 °C, literature).

### **Partition coefficient n-octanol/water (log value)**

Not determined, it is an inorganic substance.

### **Vapour pressure**

Not determined, the substance has melting point higher than 300 °C.

### **Density and/or relative density**

2.13 g/cm<sup>3</sup> (20 °C, literature).

### **Relative vapour density**

Does not apply to solid.

### **Particle characteristics**

Not determined, solid NaOH is in the form of large particles (flakes).

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

#### Mixture

#### **Explosives**

Data for the mixture are not available.

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

#### **Flammable gases**

It is not gas.

#### **Aerosols**

It is not aerosol.

#### **Oxidising gases**

It is not gas.

#### **Gases under pressure**

It is not gas.

#### **Flammable liquids**

Data for the mixture are not available.

The mixture is classified as flammable liquid category 3 according to the value of the flash point and boiling point.

#### **Flammable solids**

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It is not solid.

### ***Self-reactive substances and mixtures***

Data for the mixture are not available.

The mixture does not contain substances classified as self-reactive substances or explosives or organic peroxides or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### ***Pyrophoric liquids***

Data for the mixture are not available.

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

### ***Pyrophoric solids***

It is not solid.

### ***Self-heating substances and mixtures***

Data for the mixture are not available.

The mixture does not contain substances classified as self-heating or pyrophoric substances or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### ***Substances and mixtures, which emit flammable gases in contact with water***

Data for the mixture are not available.

The mixture does not contain substances classified as substances, which emit flammable gases in contact with water or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### ***Oxidising liquids***

Data for the mixture are not available.

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

### ***Oxidizing solids***

It is not solid.

### ***Organic peroxides***

Data for the mixture are not available.

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

### ***Corrosive to metals***

Data for the mixture are not available.

The mixture is not classified as corrosive to metals due to the low sodium hydroxide content.

### ***Desensitised explosives***

Data for the mixture are not available.

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

**Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts**

CAS: 68411-30-3

### ***Explosives***

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### ***Flammable gases***



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It is not gas.

### **Aerosols**

It is not aerosol.

### **Oxidising gases**

It is not gas.

### **Gases under pressure**

It is not gas.

### **Flammable liquids**

It is not liquid.

### **Flammable solids**

The substance is not classified as flammable solid (EU method A.10).

### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### **Pyrophoric liquids**

It is not liquid.

### **Pyrophoric solids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the substance are not available.

The substance is soluble in water and forms a stable mixture with it.

### **Oxidising liquids**

It is not liquid.

### **Oxidizing solids**

Data for the substance are not available.

It is an organic substance does not contain chemical groups associated with oxidising properties.

### **Organic peroxides**

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### **Corrosive to metals**

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### **Desensitised explosives**

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Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### Propan-2-ol

CAS: 67-63-0

#### **Explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Pure propan-2-ol is autoxidated by air and light to form an explosive cyclic triacetone triperoxide, which settles to the bottom of the vessel as a white sediment. In the event of such a finding, the container must be handled immediately and pyrotechnics called.

#### **Flammable gases**

It is not gas.

#### **Aerosols**

It is not aerosol.

#### **Oxidising gases**

It is not gas.

#### **Gases under pressure**

It is not gas.

#### **Flammable liquids**

The substance is classified as flammable liquid category 2 according to the value of the flash point and boiling point.

#### **Flammable solids**

It is not solid.

#### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

#### **Pyrophoric liquids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

#### **Pyrophoric solids**

It is not solid.

#### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

#### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

#### **Oxidising liquids**

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Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

### ***Oxidizing solids***

It is not solid.

### ***Organic peroxides***

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### ***Corrosive to metals***

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### ***Desensitised explosives***

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **2-Butoxyethanol**

CAS: 111-76-2

### ***Explosives***

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### ***Flammable gases***

It is not gas.

### ***Aerosols***

It is not aerosol.

### ***Oxidising gases***

It is not gas.

### ***Gases under pressure***

It is not gas.

### ***Flammable liquids***

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

### ***Flammable solids***

It is not solid.

### ***Self-reactive substances and mixtures***

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### ***Pyrophoric liquids***

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### ***Pyrophoric solids***

It is not solid.

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### ***Self-heating substances and mixtures***

Data for the substance are not available.  
The substance is not classified as self-heating.

### ***Substances and mixtures, which emit flammable gases in contact with water***

Data for the substance are not available.  
The chemical structure of the substance does not contain metals or metalloids.  
The substance is soluble in water and forms a stable mixture with it.

### ***Oxidising liquids***

Data for the substance are not available.  
It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

### ***Oxidizing solids***

It is not solid.

### ***Organic peroxides***

Data for the substance are not available.  
The substance does not contain a bivalent group -O-O- with at least one organic radical.

### ***Corrosive to metals***

Data for the substance are not available.  
The substance is not classified as corrosive to metal.

### ***Desensitised explosives***

Data for the substance are not available.  
The substance does not contain chemical groups associated with explosive properties.

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

CAS: 68891-38-3

### ***Explosives***

Data for the substance are not available.  
The substance does not contain chemical groups associated with explosive properties.

### ***Flammable gases***

It is not gas.

### ***Aerosols***

It is not aerosol.

### ***Oxidising gases***

It is not gas.

### ***Gases under pressure***

It is not gas.

### ***Flammable liquids***

It is not liquid.

### ***Flammable solids***

The substance is not classified as flammable solid, burning time > 2 400 s (EU method A.10).

### ***Self-reactive substances and mixtures***

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Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### ***Pyrophoric liquids***

It is not liquid.

### ***Pyrophoric solids***

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### ***Self-heating substances and mixtures***

Data for the substance are not available.

The substance is not classified as self-heating.

### ***Substances and mixtures, which emit flammable gases in contact with water***

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

### ***Oxidising liquids***

It is not liquid.

### ***Oxidizing solids***

Data for the substance are not available.

It is an organic substance does not contain chemical groups associated with oxidising properties.

### ***Organic peroxides***

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### ***Corrosive to metals***

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### ***Desensitised explosives***

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **Sodium hydroxide**

CAS: 1310-73-2

### ***Explosives***

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### ***Flammable gases***

It is not gas.

### ***Aerosols***

It is not aerosol.

### ***Oxidising gases***

It is not gas.

### ***Gases under pressure***

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It is not gas.

### **Flammable liquids**

It is not liquid.

### **Flammable solids**

Data for the substance are not available.

The substance is not classified as flammable solid.

### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### **Pyrophoric liquids**

It is not liquid.

### **Pyrophoric solids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the substance are not available.

The substance is soluble in water and forms a stable mixture with it.

### **Oxidising liquids**

It is not liquid.

### **Oxidising solids**

Data for the substance are not available.

The substance does not contain chemical groups associated with oxidising properties.

### **Organic peroxides**

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### **Corrosive to metals**

Data for the substance are not available.

The substance is classified as corrosive to metal category 1.

### **Desensitised explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **9.2.2. Other safety characteristics**

#### **Mechanical sensitivity**

Not determined, it is not an explosive substance.

#### **Self-accelerating polymerisation temperature**

Not determined, it is not a polymerising substance.

#### **Formation of explosible dust/air mixtures**

Not determined, it is not a dust.



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<b>Acid/alkaline reserve</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Miscibility</b>	Not determined.
<b>Conductivity</b>	Not determined.
<b>Corrosiveness</b>	Not determined.
<b>Gas group</b>	Not determined, it is not gas.
<b>Redox potential</b>	Not determined.
<b>Radical formation potential</b>	Not determined.
<b>Photocatalytic properties</b>	Not determined.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The mixture is stable under normal conditions of use. There aren't any hazardous reaction.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions aren't known under normal conditions of use.

#### 10.4. Conditions to avoid

Protect from frost. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

#### 10.5. Incompatible materials

Strong oxidizing agents, aluminum.

#### 10.6. Hazardous decomposition products

They do not form under normal use. Burning releases carbon oxides, sulphur oxides, hydrogen sulphide, nitrogen oxides, ammonia, chlorine oxides, hydrogen chloride and products of incomplete combustion.

### SECTION 11: Toxicological information

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

##### Mixture

##### Acute toxicity

The mixture is not classified as toxic for all routes of exposure.

##### Oral

Data for the mixture are not available.

The mixture is not classified by the additive formula.

ATE<sub>mixture</sub> > 13 430 mg/kg.

##### Dermal

Data for the mixture are not available.

ATE<sub>mixture</sub> > 2 000 mg/kg (estimate, low concentration of substance classified as toxic dermal route of exposure).

##### Inhalation

Data for the mixture are not available.

ATE<sub>mixture</sub> > 20 mg/kg (estimate, low concentration of substances classified as toxic inhalation route of exposure).

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### **Skin corrosion/irritation**

Data for the mixture are not available.

The mixture is classified as skin corrosive category 1 based on the pH value and the content of sodium hydroxide and surfactants.

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

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).

EUH208 - Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (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.

### **STOT – single exposure**

Data for the mixture are not available.

The mixture is not classified as toxic for specific target organs in a single exposure in category 3 according to the recommended concentration limits of substance(s).

### **STOT – repeated exposure**

Data for the mixture are not available.

The mixture does not contain substances classified as toxic for specific target organs in a repeated exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **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.

**Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts**

CAS: 68411-30-3

### **Acute toxicity**

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**Oral** The substance is classified in category 4.  
LD<sub>50</sub> = 1 080 mg/kg (rat, female, OECD 401).

**Dermal** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 2 000 mg/kg (rabbit, OECD 402).

**Inhalation** Data for the substance are not available.

### **Skin corrosion/irritation**

The substance is classified as skin irritant.

Primary dermal irritation index PDII = 2.17 (max. 4, not fully reversible after 14 days) (rabbit, 72 hrs., OECD 404).

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

The substance is classified as seriously damaging to the eyes.

Overall irritation score = 1.75 (max. 4, not rinsed, not fully reversible after 14 days), 1 (max. 3, rinse after 4 seconds, reversible after 7 days), 1.06 (max. 2, rinse after 30 seconds, reversible after 14 days) (rabbit, 72 hrs., 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 473, OECD 476).

### **Carcinogenicity**

Data for the substance are not available.

### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

NOAEL = 350 mg/kg/day (rat, oral, generation P0, literature).

NOAEL = 350 mg/kg/day (rat, oral, generation F1, literature).

NOAEL = 350 mg/kg/day (rat, oral, generation F2, literature).

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

Based on available data, the classification criteria are not met.

NOAEL = 85 mg/kg/day (rat, oral, literature).

LOAEL = 300 mg/kg/day (rat, oral, literature).

### **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, OECD 401).

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**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, OECD 402).

**Inhalation** Based on available data, the classification criteria are not met.  
LC<sub>50</sub> > 10 000 ppm (vapour, 6 h, OECD 403).

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.  
Mean erythema score = 0 and oedema = 0 (rabbit, OECD 404).

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

The substance is classified as eye irritant.  
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**

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).

### **STOT – single exposure**

The substance may cause drowsiness or dizziness.

### **STOT – 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, OECD 401).  
ATE = 1 200 mg/kg (according to harmonized classification).

**Dermal** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 2 000 mg/kg (rabbit, OECD 402).

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**Inhalation** The substance is classified in category 3 according to harmonized classification.  
ATE = 3 mg/l (for calculation by additive formula, vapour).

### **Skin corrosion/irritation**

The substance is 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**

The substance is classified as eye irritant.

Mean score of 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**

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).

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – 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.

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

CAS: 68891-38-3

### **Acute toxicity**

#### **Oral**

Based on available data, the classification criteria are not met.

LD<sub>50</sub> = 4 100 mg/kg (rat, OECD 401).

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## CLEAMEN GASTRO PROFESSIONAL Strong grease

**Dermal** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 2 000 mg/kg (rabbit, OECD 402).

**Inhalation** Data for the substance are not available.

### **Skin corrosion/irritation**

The substance is classified as skin irritant.  
Mean erythema score = 3.2 and oedema = 3.2 (fully reversible) (rabbit, 72 hrs., OECD 404).

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

The substance is classified as seriously damaging to the eyes.  
Mean score of corneal opacity = 1.3 (not fully reversible after 21 days), iritis = 0.8 (not fully reversible after 21 days), conjunctival redness = 3 (fully reversible), conjunctival edema = 1 (fully reversible) (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**

Data for the substance are not available.

### **Reproductive toxicity**

Based on available data, the classification criteria are not met.  
NOAEL = 300 mg/kg/day (systemic effects, rat, oral, generation P0, OECD 416).  
NOAEL = 300 mg/kg/day (reproduction, rat, oral, generation P0, OECD 416).  
NOAEL = 300 mg/kg/day (rat, oral, generation F1, OECD 416).

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

Based on available data, the classification criteria are not met.  
NOAEL > 225 mg/kg/day (systemic toxicity, rat, 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.

**Sodium hydroxide**

CAS: 1310-73-2

### **Acute toxicity**

**Oral** Data for the substance are not available.

**Dermal** Data for the substance are not available.

**Inhalation** Data for the substance are not available.

### **Skin corrosion/irritation**



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The substance is classified as skin corrosive category 1A.

Irritating to the skin at a concentration of 0.95 % by weight - intact skin - mean erythema score = 2 after 24 hours, 1.7 after 72 hours, 0.7 after 8 days (irreversible for 1/6 animals, scale on the skin) and edema = 0.3 after 24 h, 0 after 72 h, 0 after 8 d (fully reversible in 72 h), broken skin - mean erythema score = 2.3 after 24 h, 2 after 72 h, 2.7 after 8 d (irreversible for 1/6 animals, skin necrosis) and edema = 2 after 24 h, 0.3 after 72 h, 0 after 8 d (fully reversible in 8 days), primary dermal irritation index PDII = 2.7 (rabbit, Draize test).

Corrosive skin at a concentration of 4.98% by weight - intact skin - mean erythema score = 4 after 24 h, 4 after 72 h, 4 after 8 d (irreversible, skin necrosis) and edema = 2 after 24 h, 1 after 72 h, 1 after 8 days (irreversible for 8 days), broken skin - mean erythema score = 4 after 24 h, 4 after 72 h, 4 after 8 d (irreversible, skin necrosis) and edema = 2 after 24 h, after 72 hours, 1 after 8 days (irreversible for 8 days), primary dermal irritation index PDII = 5.6 (rabbit, Draize test).

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

Substance is classified as serious eye damage.

Mean corneal opacity > 2, conjunctival redness > 2.5 (2 wt.%, rabbit, 72 h, OECD 405).

### **Respiratory or skin sensitization**

Based on available data, the classification criteria are not met.

Not skin sensitising (human).

### **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.

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – 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.

## **11.2. Information on other hazards**

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet and given in the list (established in accordance with Article 59(1) for having endocrine disrupting properties of REACH regulation.

Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Mixture

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Data for the mixture are not available.				
<b>Acute aquatic toxicity</b>				
The mixture is not classified as acute aquatic toxicity based on calculation according to the summation method.				
category 1		$\Sigma < 0.05$		
<b>Chronic aquatic toxicity</b>				
The mixture is not classified as chronic aquatic toxicity based on calculation according to the summation method.				
category	1	2	3	4
$\Sigma$	< 0.05	< 0.5	< 15	< 10.0005
<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>				CAS: 68411-30-3
The substance is classified as Aquatic Chronic 3; H412.				
<b>Fish</b>				
LC <sub>50</sub> , 96 hrs., Lepomis macrochirus: 1.67 mg/l (mortality).				
NOEC, 28 d., Oncorhynchus mykiss: 0.23 mg/l (mortality, OECD 210).				
<b>Crustaceans</b>				
EC <sub>50</sub> , 48 hrs., Daphnia Magna: 2.9 mg/l (mobility, OECD 202).				
NOEC, 21 d., Daphnia Magna: 0.27 mg/l (survival and reproduction, OECD 211).				
<b>Algae</b>				
EC <sub>50</sub> , 72 hrs., Pseudokirchneriella subcapitata: 235 mg/l (growth rate, OECD 201).				
EC <sub>10</sub> , 96 hrs., Pseudokirchneriella subcapitata: 13.1 mg/l (growth rate, OECD 201).				
<b>Propan-2-ol</b>				CAS: 67-63-0
The substance is not classified as hazardous for the aquatic environment.				
<b>Fish</b>				
LC <sub>50</sub> , 96 hrs., Pimephales promelas: 9 640 - 10 000 mg/l (mortality, OECD 203)				
<b>Crustaceans</b>				
EC <sub>50</sub> , 24 hrs., Daphnia Magna: > 10 000 mg/l (mobility, OECD 202)				
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 hazardous for the aquatic environment.				
<b>Fish</b>				
LC <sub>50</sub> , 96 hrs., Oncorhynchus mykiss: 1 474 (mortality, OECD 203).				
NOEC, 21 d., Brachydanio rerio: > 100 mg/l (markers for endocrine disruptive effects, OECD 204).				
<b>Crustaceans</b>				
EC <sub>50</sub> , 48 hrs., Daphnia Magna: 1 550 mg/l (mobility, OECD 202).				
EC <sub>10</sub> , 21 d., Daphnia Magna: 1 800 mg/l (mortality, OECD 202).				
NOEC, 21 d., Daphnia Magna: 100 mg/l (reproduction, OECD 202).				

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<b>Algae</b>	
EC <sub>50</sub> , 72 hrs., Selenastrum capricornutum: 911 mg/l (biomass, OECD 201).	
EC <sub>50</sub> , 72 hrs., Selenastrum capricornutum: 1 840 mg/l (growth rate, OECD 201).	
EC <sub>10</sub> , 72 hrs., Selenastrum capricornutum: 308 mg/l (biomass, OECD 201).	
EC <sub>10</sub> , 72 hrs., Selenastrum capricornutum: 679 mg/l (growth rate, OECD 201).	
NOEC, 72 hrs., Selenastrum capricornutum: 88 mg/l (biomass, OECD 201).	
NOEC, 72 hrs., Selenastrum capricornutum: 286 mg/l (growth rate, OECD 201).	
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	CAS: 68891-38-3
The substance is classified as Aquatic Chronic 3; H412.	
<b>Fish</b>	
LC <sub>50</sub> , 96 hrs., Danio rerio: 7.1 mg/l (mortality, OECD 203).	
NOEC, 28 d., Oncorhynchus mykiss: 0.14 mg/l (mortality and sublethal effects, OECD 204).	
<b>Crustaceans</b>	
EC <sub>50</sub> , 48 hrs., Daphnia Magna: 7.4 mg/l (mobility, OECD 202).	
NOEC, 21 d., Daphnia Magna: 0.27 mg/l (survival and reproduction, OECD 211).	
<b>Algae</b>	
EC <sub>50</sub> , 72 hrs., Desmodesmus subspicatus: 27.7 mg/l (growth rate, OECD 201).	
EC <sub>10</sub> , 72 hrs., Desmodesmus subspicatus: 4.4 mg/l (growth rate, OECD 201).	
NOEC, 72 hrs., Desmodesmus subspicatus: 0.95 mg/l (growth rate, OECD 201).	
<b>Sodium hydroxide</b>	CAS: 1310-73-2
The substance is not classified as dangerous for the aquatic environment.	
<b>Fish</b>	
LC <sub>50</sub> , 48 hrs, Leuciscus idus: 189 mg/l (mortality).	
<b>Crustaceans</b>	
EC <sub>50</sub> , 48 hrs, Ceriodaphnia sp.: 40.4 mg/l (immobility).	
<b>Algae</b>	
Data for the substance are not available.	
<b>12.2. Persistence and degradability</b>	
<b>Mixture</b>	
Data for the mixture are not available.	
The surfactants are contained in this preparation in accordance with the biodegradability criteria according to Regulation (EC) No. 648/2004 on detergents.	
<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>	CAS: 68411-30-3
Readily biodegradable: 85 % after 29 days (CO <sub>2</sub> evolution, OECD 301 B).	
<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>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	CAS: 68891-38-3

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Readily biodegradable: 100 % after 28 days (dissolved organic carbon removal, EU method C.4-C).	
<b>Sodium hydroxide</b>	CAS: 1310-73-2
Not determined, it is an inorganic substance.	
<b>12.3. Bioaccumulative potential</b>	
<b>Mixture</b>	
Data for the mixture are not available.	
<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>	CAS: 68411-30-3
BCF, Oncorhynchus mykiss = 87 l/kg (OECD 305 E). log Pow = 1.4 (23 °C, pH = 6.1, OECD 123).	
<b>Propan-2-ol</b>	CAS: 67-63-0
log Pow = 0.05 (25 °C).	
<b>2-Butoxyethanol</b>	CAS: 111-76-2
log Pow = 0.81 (25 °C, pH = 7, shake-flask method).	
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	CAS: 68891-38-3
log Pow = 0.3 (23 °C, pH = 6.1, OECD 123).	
<b>Sodium hydroxide</b>	CAS: 1310-73-2
Not determined, it is an inorganic substance.	
<b>12.4. Mobility in soil</b>	
<b>Mixture</b>	
Data for the mixture are not available.	
<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>	CAS: 68411-30-3
Data for the substance are not available.	
<b>Propan-2-ol</b>	CAS: 67-63-0
Data for the substance are not available.	
<b>2-Butoxyethanol</b>	CAS: 111-76-2
Data for the substance are not available.	
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	CAS: 68891-38-3
Koc = 2.2 (Q)SAR method.	
<b>Sodium hydroxide</b>	CAS: 1310-73-2
Not determined, it is an inorganic substance.	
<b>12.5. Results of PBT and vPvB assessment</b>	
Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH Regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation.	
<b>12.6. Endocrine disrupting properties</b>	

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The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation. Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. 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**

Dispose according to the applicable European and local regulations (eg. in a hazardous waste incinerator). **Do not empty unused product into drainage systems.** Do not contaminate ponds or ditches with the product or used container. Hand over the residual amounts and solutions to a licensed disposal company. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### **Possible waste code**

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

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

Not known.

#### **Special precautions recommended for waste management**

Not known.

#### **Waste legislation**

Directive 2008/98/EC on waste and repealing certain Directives, as amended.

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 2924

### 14.2. UN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Propan-2-ol, Sodium hydroxide)

### 14.3. Transport hazard class(es)

3 (8)

### 14.4. Packing group

III

### 14.5. Environmental hazards

It is not dangerous for the environment during transport.

### 14.6. Special precautions for user

Not given.

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

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Not available.

### 14.8. Other information

#### Labeling according to ADR



#### Additional data for ADR/RID

Classification code	FC
Labels	3+8
Hazard identification code	38
Tunnel restriction code	D/E (ADR), - (RID).
Limited quantities	5 l
Excepted quantities	Maximum net quantity per inner packaging: 30 ml. Maximum net quantity per outer packaging: 1 000 ml.
Transport category	3

#### Additional data for IMDG

Emergency Schedules (EmS)	F-E, S-C
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## SECTION 15: Regulatory information

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

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

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

Regulation No. 648/2004/EC on detergents, as amended

### 15.2. Chemical safety assessment

Has not been carried out for mixture.

## SECTION 16: Other information

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

Changes in the classification and labeling of the mixture. Changes in the composition of the mixture in section 3 and related changes in the other sections.

#### Key or legend to abbreviations and acronyms

Acute Tox. 2	Acute toxicity, cat. 2
Acute Tox. 3	Acute toxicity, cat. 3
Acute Tox. 4	Acute toxicity, cat. 4



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Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 1	Chronic aquatic hazard, cat. 1
Aquatic Chronic 3	Chronic aquatic hazard, cat. 3
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 2	Flammable liquid, cat. 2
Flam. Liq. 3	Flammable liquid, cat. 3
Met. Corr. 1	Substance or mixture corrosive to metals, cat. 1
Skin Corr. 1A	Skin corrosion, cat. 1A
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Corr. 1C	Skin corrosion, cat. 1C
Skin Corr. 1	Skin corrosion, cat. 1
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1A	Skin sensitization, cat. 1A
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
ATE	Acute Toxicity Estimate
bw	body weight
M	Multiplying factor
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures
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, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific target organ toxicity
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**

EUH071	Corrosive to the respiratory tract.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.

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H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal 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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
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 SDS.

### Other information

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

The safety data sheet is created in accordance with Regulation No. 2020/878/EC. There is no additional information in accordance with the local and national legislation of the Member State in the European Union, in the safety data sheet.

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