

# SAFETY DATA SHEET

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

## KRYSTAL For kitchen

Date of revision: 25. 04. 2022

Version: 5.0

Replaced version from: 02. 11. 2015

Date of issue: 26. 11. 2012

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

#### 1.1. Product identifier

**Product Name**

**KRYSTAL For kitchen**

**UFI code**

UFI: 5Q00-V01J-R004-3RU0

**Product code**

TBDKU01.

**Mixture description**

Water solution.

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

**Identified uses**

A special liquid product designed for cleaning kitchen furniture, hard surfaces made of non-absorbent material. Cleans also formica units, doors and window frames.

Consumer use.

**Uses advised against**

Not known. 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 Irrit. 2; H315

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 skin irritation. Causes serious eye damage.

## 2.2. Label elements

### Hazard pictograms



### Signal word

Danger

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

Contains Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., Alcohols, C12-14, ethoxylated, sulfates, sodium salts.

### Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

### Precautionary statements

P102 Keep out of reach of children.

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

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

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EUH208 - Contains Citral, 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: < 5 % anionic surfactants, non-ionic surfactants, phosphates, EDTA and salts thereof, perfumes, CITRAL, preservation agents (METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE, BENZYL ALCOHOL).

### 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
<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.</b>			
CAS Number	85536-14-7	< 3.6	Acute Tox. 4; H302
EC Number	287-494-3		Skin Corr. 1C; H314
Index Number	not given		Eye Dam. 1; H318
Registration Number	01-2119490234-40-XXXX		Aquatic Chronic 3; H412
<b>Propan-2-ol; Isopropyl alcohol; Isopropanol</b>			
CAS Number	67-63-0	≤ 3.0	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		
<b>2-Butoxyethanol; Ethylene glycol monobutyl ether; Butyl cellosolve</b>			
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. 4; H332 ATE <sub>oral</sub> = 1 200 mg/kg bw
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>			
CAS Number	68891-38-3	< 1.1	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 %	

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<b>Citral</b>		
CAS Number	5392-40-5	
EC Number	226-394-6	≤ 0.125
Index Number	605-019-00-3	
Registration Number	not yet available	
Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319		
<b>Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b>		
Acute Tox. 3; H301 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M=100 M(Chronic)=100		
CAS Number	55965-84-9	
EC Number	not given	< 0.0005
Index Number	613-167-00-5	
Registration Number	not yet available	
The substance has specific concentration limits:		
Skin Corr. 1C; H314		C ≥ 0.6 %
Eye Dam. 1; H318		C ≥ 0.6 %
Skin Irrit. 2; H315		0.06 % ≤ C < 0.6 %
Eye Irrit. 2; H319		0.06 % ≤ C < 0.6 %
Skin Sens. 1A; H317		C ≥ 0.0015 %
<b>Ethanediol; Ethylene glycol</b>		
CAS Number	107-21-1	
EC Number	203-473-3	< 3.2*10 <sup>-8</sup>
Index Number	603-027-00-1	
Registration Number	not yet available	
Acute Tox. 4; H302 STOT RE 2; H373		
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. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.		
<b>4.1. Description of first aid measures</b>		
<b>Inhalation</b>		
Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.		
<b>Skin contact</b>		
Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.		
<b>Eye contact</b>		

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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.

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

### 7.3. Specific end use(s)

Useful for all kinds of materials in the kitchen including electric devices and equipment.

Apply directly onto dirty surfaces using a sprinkler with frother. Leave to react for a few minutes and clean with sponge or rinse with water.

## 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

**Ethandiol** CAS: 107-21-1

Limit values - Eight hours		Limit values - Short-term		Note
52 mg/m <sup>3</sup>	20 ppm	104 mg/m <sup>3</sup>	40 ppm	Skin

#### 8.1.2. Biological limit values

Not determined in EU.

#### 8.1.3. DNEL and PNEC values

**Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.** CAS: 85536-14-7

#### DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	7.6 mg/m <sup>3</sup>

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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
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.268 mg/l	0.027 mg/l	0.017 mg/l	not given	3.43 mg/l
<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	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
<b>PNEC</b>				
Freshwater	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
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>
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>

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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	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>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.				
<b>Eye/face protection</b>				

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Wear safety goggles or face shield when manufacturing and handling the product. They are not necessary when used by the consumer.

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

Wear protective gloves when manufacturing and handling the product. They are not necessary when used by the consumer.

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**

In normal use is not necessary, in case of prolonged contact with the product, wear protective work clothes and shoes.

### **Respiratory protection**

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.

### **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>	Green.
<b>Odour</b>	Characteristic.
<b>Melting point/freezing point</b>	Not determined.
<b>Boiling point or initial boiling point and boiling range</b>	100 °C
<b>Flammability</b>	Not determined, it is an aqueous solution which does not contain any flammable substances or the concentration of flammable substance(s) is lower than the limit for inclusion in Section 3.
<b>Lower explosion limit</b>	Not determined, it is an aqueous solution which does not contain any flammable substances or the concentration of flammable substance(s) is lower than the limit for inclusion in Section 3.
<b>Upper explosion limit</b>	Not determined, it is an aqueous solution which does not contain any flammable substances or the concentration of flammable substance(s) is lower than the limit for inclusion in Section 3.
<b>Flash point</b>	54 °C.

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<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>	9.5 – 10.5 (20 °C).
<b>Kinematic viscosity</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>Solubility</b>	Fully miscible.
<b>Partition coefficient n-octanol/water (log value)</b>	Does not apply to mixture.
<b>Vapour pressure</b>	23 hPa
<b>Density and/or relative density</b>	Not determined.
<b>Relative vapour density</b>	Not determined.
<b>Particle characteristics</b>	Does not apply to liquid.
<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.</b> CAS: 85536-14-7	
<b>Physical state</b>	Liquid.
<b>Colour</b>	Brown.
<b>Odour</b>	Characteristic.
<b>Melting point/freezing point</b>	279.5 K (EU method A.1).
<b>Boiling point or initial boiling point and boiling range</b>	462.2 K (EU method A.2).
<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>	196.9 °C (ASTM D93/07).
<b>Auto-ignition temperature</b>	380 °C (ASTM E 659-78).
<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>	> 16 g/ 100 g H <sub>2</sub> O (20 °C, OECD 105).
<b>Partition coefficient n-octanol/water (log value)</b>	log Pow = 2.2 (23 °C, pH = 3.7, OECD 123).
<b>Vapour pressure</b>	1.06 * 10 <sup>-8</sup> Pa (25 °C, (Q)SAR method).
<b>Density and/or relative density</b>	D <sub>4</sub> <sup>20</sup> = 1.05 (OECD 109).
<b>Relative vapour density</b>	Not determined.
<b>Particle characteristics</b>	Does not apply to liquid.

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Propan-2-ol	CAS: 67-63-0
<b>Physical state</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Not determined.
<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.
2-Butoxyethanol	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).

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<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>	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> <span style="float: right;">CAS: 68891-38-3</span>	
<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>9.2. Other information</b>	
<b>9.2.1. Information with regard to physical hazard classes</b>	

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<b>Mixture</b>
<b><i>Explosives</i></b>
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.
<b><i>Flammable gases</i></b>
It is not gas.
<b><i>Aerosols</i></b>
It is not aerosol.
<b><i>Oxidising gases</i></b>
It is not gas.
<b><i>Gases under pressure</i></b>
It is not gas.
<b><i>Flammable liquids</i></b>
The mixture is classified as flammable liquid category 3 according to the value of the flash point and boiling point.
<b><i>Flammable solids</i></b>
It is not solid.
<b><i>Self-reactive substances and mixtures</i></b>
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.
<b><i>Pyrophoric liquids</i></b>
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.
<b><i>Pyrophoric solids</i></b>
It is not solid.
<b><i>Self-heating substances and mixtures</i></b>
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.
<b><i>Substances and mixtures, which emit flammable gases in contact with water</i></b>
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.
<b><i>Oxidising liquids</i></b>
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.

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<b><i>Oxidizing solids</i></b>	
It is not solid.	
<b><i>Organic peroxides</i></b>	
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.	
<b><i>Corrosive to metals</i></b>	
Data for the mixture are not available. The mixture does not contain substances classified as corrosive to metals or the concentration of substance(s) is lower than the limit for inclusion in Section 3.	
<b><i>Desensitised explosives</i></b>	
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.	
<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.</b>	CAS: 85536-14-7
<b><i>Explosives</i></b>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	
<b><i>Flammable gases</i></b>	
It is not gas.	
<b><i>Aerosols</i></b>	
It is not aerosol.	
<b><i>Oxidising gases</i></b>	
It is not gas.	
<b><i>Gases under pressure</i></b>	
It is not gas.	
<b><i>Flammable liquids</i></b>	
The substance is classified as flammable liquid category 3 according to the value of the flash point and boiling point.	
<b><i>Flammable solids</i></b>	
It is not solid.	
<b><i>Self-reactive substances and mixtures</i></b>	
Data for the substance are not available. The substance is not classified as self-reactive.	
<b><i>Pyrophoric liquids</i></b>	
Data for the substance are not available. The substance is stable in air, there is no spontaneous ignition.	
<b><i>Pyrophoric solids</i></b>	
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 miscible with 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.

### **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.

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<b>Flammable solids</b>	
It is not solid.	
<b>Self-reactive substances and mixtures</b>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive or self-reactive properties.	
<b>Pyrophoric liquids</b>	
Data for the substance are not available. The substance is stable in air, there is no spontaneous ignition.	
<b>Pyrophoric solids</b>	
It is not solid.	
<b>Self-heating substances and mixtures</b>	
Data for the substance are not available. The substance is not classified as self-heating.	
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	
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.	
<b>Oxidising liquids</b>	
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.	
<b>Oxidizing solids</b>	
It is not solid.	
<b>Organic peroxides</b>	
Data for the substance are not available. The substance does not contain a bivalent group -O-O- with at least one organic radical.	
<b>Corrosive to metals</b>	
Data for the substance are not available. The substance is not classified as corrosive to metal.	
<b>Desensitised explosives</b>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	
<b>2-Butoxyethanol</b>	CAS: 111-76-2
<b>Explosives</b>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	
<b>Flammable gases</b>	
It is not gas.	
<b>Aerosols</b>	

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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.

### ***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.

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<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	CAS: 68891-38-3
<b>Explosives</b>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	
<b>Flammable gases</b>	
It is not gas.	
<b>Aerosols</b>	
It is not aerosol.	
<b>Oxidising gases</b>	
It is not gas.	
<b>Gases under pressure</b>	
It is not gas.	
<b>Flammable liquids</b>	
It is not liquid.	
<b>Flammable solids</b>	
The substance is not classified as flammable solid, burning time > 2 400 s (EU method A.10).	
<b>Self-reactive substances and mixtures</b>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive or self-reactive properties.	
<b>Pyrophoric liquids</b>	
It is not liquid.	
<b>Pyrophoric solids</b>	
Data for the substance are not available. The substance is stable in air, there is no spontaneous ignition.	
<b>Self-heating substances and mixtures</b>	
Data for the substance are not available. The substance is not classified as self-heating.	
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	
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.	
<b>Oxidising liquids</b>	
It is not liquid.	
<b>Oxidizing solids</b>	
Data for the substance are not available. It is an organic substance does not contain chemical groups associated with oxidising properties.	
<b>Organic peroxides</b>	

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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.

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

<b>Mechanical sensitivity</b>	Not determined, it is not an explosive substance.
<b>Self-accelerating polymerisation temperature</b>	Not determined, it is not a polymerising substance.
<b>Formation of explosible dust/air mixtures</b>	Not determined, it is not a dust.
<b>Acid/alkaline reserve</b>	Not determined, pH is in the range 4 - 10.
<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.

### **10.5. Incompatible materials**

Strong oxidizing agents.

### **10.6. Hazardous decomposition products**

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

## **SECTION 11: Toxicological information**

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## KRYSTAL For kitchen

### 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.

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

##### **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).

##### **Skin corrosion/irritation**

Data for the mixture are not available.

The mixture is classified as skin irritant based on the general/specific concentration limits of substance(s).

##### **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 Citral, 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).

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### **STOT – 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.

### **Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.**

CAS: 85536-14-7

### **Acute toxicity**

**Oral** The substance is classified in category 4.  
LD<sub>50</sub> = ca. 1 470 mg/kg (rat, 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 corrosion in category 1C.

Primary dermal irritation index PDII = 5.25 (max. 6, not reversible); 5.33 (max. 8, not reversible) (rabbit, 72 h, OECD 404).

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

The substance is classified as seriously damaging to the eyes.

Overall irritation score = 46.9 (not fully reversible after 6 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.

In vitro:

Negative (OECD 471).

Positive (OECD 473).

In vivo:

Negative (OECD 474, mammalian germ cell cytogenetic assay, rodent dominant lethal assay).

### **Carcinogenicity**

Data for the substance are not available.

### **Reproductive toxicity**

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

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

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

NOAEL = 350 mg/kg/ day (rat, 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 = 85 mg/kg/day (liver and kidney, rat, oral).

LOAEL = 300 mg/kg/ day (liver and kidney, rat, oral).

NOAEL = 5 % (rat, dermal).

### **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).

**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).

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### **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).

#### **Inhalation**

The substance is classified in category 4 according to harmonized classification.

ATE = 11 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 hemangiomas, rat, male, vapour, OECD 451).

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

### **Reproductive toxicity**

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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).

**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**

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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.

## **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**

Data for the mixture are not available.

#### **Acute aquatic toxicity**

The mixture is not classified as acute aquatic toxicity based on calculation according to the summation method.

category 1

$\Sigma < 0.05$

#### **Chronic aquatic toxicity**

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

< 9.7

< 4.7005

#### **Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.**

CAS: 85536-14-7

The substance is classified as Aquatic Chronic 3; H412.

#### **Fish**

LC<sub>50</sub>, 96 hrs., Pimephales promelas: 1.67 mg/l (mortality, USEPA 850.1075).

NOEC, 72 d., Oncorhynchus mykiss: 0.23 mg/l (read-across (sodium 4-undecylbenzenesulfonate), mortality, OECD 210).

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<b>Crustaceans</b>	
EC <sub>50</sub> , 48 hrs., Daphnia Magna: 2.9 mg/l (read-across (sodium 4-undecylbenzenesulfonate), mobility, OECD 202).	
NOEC, 21 d., Daphnia Magna: 1.18 mg/l (read-across (sodium 4-undecylbenzenesulfonate), OECD 211).	
<b>Algae</b>	
EC <sub>50</sub> , 72 hrs, Pseudokirchneriella subcapitata: 235 mg/l (read-across (sodium 4-undecylbenzenesulfonate), growth rate, OECD 201).	
NOEC, 72 hrs, Pseudokirchneriella subcapitata: 13.1 mg/l (read-across (sodium 4-undecylbenzenesulfonate), 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).	
<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>	

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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).

### Algae

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).

### 12.2. Persistence and degradability

#### Mixture

Data for the mixture are not available.

#### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

CAS: 85536-14-7

Readily biodegradable: 94 % after 28 days (removal of dissolved organic carbon, OECD 301 A).

#### Propan-2-ol

CAS: 67-63-0

Readily biodegradable: 53 % after 5 days (CO<sub>2</sub> evolution, OECD 301 B).

#### 2-Butoxyethanol

CAS: 111-76-2

Readily biodegradable: 90.4 % after 28 days (CO<sub>2</sub> evolution, OECD 301 B).

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

CAS: 68891-38-3

Readily biodegradable: 100 % after 28 days (dissolved organic carbon removal, EU method C.4-C).

### 12.3. Bioaccumulative potential

#### Mixture

Data for the mixture are not available.

#### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

CAS: 85536-14-7

log Pow = 2.2 (23 °C, pH = 3.7, OECD 123).

#### Propan-2-ol

CAS: 67-63-0

log Pow = 0.05 (25 °C).

#### 2-Butoxyethanol

CAS: 111-76-2

log Pow = 0.81 (25 °C, pH = 7, shake-flask method).

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

CAS: 68891-38-3

log Pow = 0.3 (23 °C, pH = 6.1, OECD 123).

### 12.4. Mobility in soil

#### Mixture

Data for the mixture are not available.

#### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

CAS: 85536-14-7

Data for the substance are not available.

#### Propan-2-ol

CAS: 67-63-0

Data for the substance are not available.

#### 2-Butoxyethanol

CAS: 111-76-2

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Data for the substance are not available.

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

CAS: 68891-38-3

Koc = 2.2 (Q)SAR method.

### 12.5. Results of PBT and vPvB assessment

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.

### 12.6. Endocrine disrupting properties

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**

20 01 29\* - detergents containing hazardous substances (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 1987

### 14.2. UN proper shipping name

ALCOHOLS, N.O.S. (Propan-2-ol).

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### 14.3. Transport hazard class(es)

3

### 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

Not available.

### 14.8. Other information

#### Labeling according to ADR



#### Additional data for ADR/RID

Classification code	F1
Labels	3
Hazard identification code	30
Tunnel restriction code	D/E (ADR), - (RID)
Limited quantities	5I
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-D.
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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

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Has not been carried out for mixture.

### SECTION 16: Other information

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

Revision of all sections according to Commission Regulation (EU) 2020/878/EC. Change of the classification and labeling of the mixture. Change in the composition of the mixture in section 3 and related changes in the other sections. The values in sections 8, 9, 11 and 12 are added according to the registration dossier of compounds.

#### **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
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
Skin Corr. 1C	Skin corrosion, cat. 1C
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1	Skin sensitization, cat. 1
Skin Sens. 1A	Skin sensitization, cat. 1A
STOT RE 2	Specific target organ toxicity - repeated exposure, cat. 2
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
ATE	Acute Toxicity Estimate
M	Multiplying factor
ADR	Accord Dangereuses Route
ATE	Acute Toxicity Estimate
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

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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.
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.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
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.
P332+P313	If skin irritation occurs: Get medical advice/attention.
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**

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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.