

# SAFETY DATA SHEET

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

## KRYSTAL Dishwashing balm

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Replaced version from:	<b>27. 10. 2021</b>	
Date of issue:	<b>27. 10. 2021</b>	

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

### 1.1. Product identifier

#### Product Name

**KRYSTAL Dishwashing balm**

#### UFI code

UFI: 8PH0-00ED-Q006-5870

#### Product code

Not given.

#### Mixture description

Water solution.

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

#### Identified uses

Dishwashing detergent with the scent of citrus fruits.

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.

#### Classification according to 1272/2008/EC

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**Eye Dam. 1; H318**

**Aquatic Chronic 3; H412**

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

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

Causes serious eye damage. Harmful to aquatic life with long lasting effects.

## 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, D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides, Sodium hydroxide.

### **Hazard statements**

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### **Supplemental hazard information**

EUH208 - Contains (R)-p-Mentha-1,8-diene, 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 - < 15 % anionic surfactants, < 5% non-ionic surfactants, perfumes, LIMONENE, LINALOOL, CITRONELLOL, CITRAL, HEXYL CINNAMAL and preservation agents (METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE).

## 2.3. Other hazards

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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		Acute Tox. 4; H302
EC Number		Skin Corr. 1C; H314
Index Number	not given	Eye Dam. 1; H318
Registration Number	01-2119490234-40-XXXX	Aquatic Chronic 3; H412

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

CAS Number	68891-38-3		
EC Number	500-234-8	< 4.5	Skin Irrit. 2; H315
Index Number	not given		Eye Dam. 1; H318
Registration Number	01-2119488639-16-XXXX		Aquatic Chronic 3; H412

The substance has specific concentration limits:

Eye Dam. 1; H318	C ≥ 10 %
Eye Irrit. 2; H319	5 % < C < 10 %

##### D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides

CAS Number	110615-47-9		
EC Number	600-975-8		Skin Irrit. 2; H315
Index Number	not given	< 1.5	Eye Dam. 1; H318
Registration Number	01-2119489418-23-XXXX		

The substance has specific concentration limits:

Eye Dam. 1; H318	C > 12 %
Skin Irrit. 2; H315	C > 30 %

##### Sodium hydroxide; Caustic soda

CAS Number	1310-73-2		
EC Number	215-185-5		
Index Number	011-002-00-6	< 1.0	Skin Corr. 1A; H314
Registration Number	01-2119457892-27-XXXX		Eye Dam. 1; H318

The substance has specific concentration limits:

Skin Corr. 1A; H314	C ≥ 5 %
Skin Corr. 1B; H314	2 % ≤ C < 5 %

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Skin Irrit. 2; H315	0.5 % ≤ C < 2 %
Eye Irrit. 2; H319	0.5 % ≤ C < 2 %
<b>(R)-p-Mentha-1,8-diene; d-Limonene</b>	
CAS Number	5989-27-5
EC Number	227-813-5
Index Number	601-029-00-7
Registration Number	01-2119529223-47-XXXX
	< 0.15
	Flam. Liq. 3; H226
	Asp. Tox. 1; H304
	Skin Irrit. 2; H315
	Skin Sens. 1; H317
	Aquatic Acute 1; H400
	Aquatic Chronic 1; H410
	M=1
	M(Chronic)=1
<b>Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b>	
CAS Number	55965-84-9
EC Number	not given
Index Number	613-167-00-5
Registration Number	not yet available
	< 0.0015
	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
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 %

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. If the problem persists, 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.

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

### 7.3. Specific end use(s)

It is characterized by high foaming and high washing effect. Contains active substance for skin protection with ALOE VERA extract.

Instructions for use: add one tablespoon to 5 liters of washing solution.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure limit value

Not determined in EU.

#### 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>
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

#### PNEC

Fresh water                    Marine water                    Intermittent releases

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		Fresh water	Marine water	Sewage Treatment Plant (STP)
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>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)
0.24 mg/l	0.024 mg/l	Fresh water	Marine water	
		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>D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides</b>				CAS: 110615-47-9
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	420 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	595 000 mg/kg/den
General population	Inhalation	Systemic effect	Long term	124 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	357 000 mg/kg/den
General population	Oral	Systemic effect	Long term	35.7 mg/kg/den
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
0.176 mg/l	0.018 mg/l	Fresh water	Marine water	
		0.029 mg/l	not given	5 000 mg/l
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators

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1.516 mg/l	0.065 mg/kg	not given	0.654 mg/kg	111.11 mg/kg food
<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>(R)-p-Mentha-1,8-diene</b>			CAS: 5989-27-5	
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	66.7 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	9.5 mg/kg/day
General population	Inhalation	Systemic effect	Long term	16.6 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	4.8 mg/kg/day
General population	Oral	Systemic effect	Long term	4.8 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases Fresh water	Marine water	Sewage Treatment Plant (STP)
14 µg/l	1.4 µg/l	not given	not given	1.8 mg/l
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
3.85 mg/l	0.385 mg/kg	not effect	0.763 mg/kg	133 mg/kg food
<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>				
Wear safety glasses or face shield.				
<b>Skin protection - hand protection</b>				

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Wear protective gloves when manufacturing and handling the product. In normal use it is not necessary to use protective gloves. Wear protective gloves in case of prolonged skin contact.

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 and footwear.

### **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>	Light blue.
<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.
<b>Lower explosion limit</b>	Not determined.
<b>Upper explosion limit</b>	Not determined.
<b>Flash point</b>	Not determined.
<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>	7.5
<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.

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<b>Vapour pressure</b>	23 hPa
<b>Density and/or relative density</b>	1.0 g/cm <sup>3</sup> (20 °C).
<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.
<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)

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<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/cm³ (22 °C, OECD 109).
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	Not determined.
<b>D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides</b>	CAS: 110615-47-9
<b>Physical state</b>	Solid.
<b>Colour</b>	Not determined.
<b>Odour</b>	Not determined.
<b>Melting point/freezing point</b>	> 150 °C (OECD 102).
<b>Boiling point or initial boiling point and boiling range</b>	> 301 °C (OECD 103).
<b>Flammability</b>	Non-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>	Not determined.
<b>Decomposition temperature</b>	Not determined, it is not a self-reactive substance or an organic peroxide.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	> 200 g/l (20 °C, OECD 105).
<b>Partition coefficient n-octanol/water (log value)</b>	log Pow ≤ -0.07 (20 °C, calculation).
<b>Vapour pressure</b>	Not determined.
<b>Density and/or relative density</b>	$D_4^{20} = 1.16$ (EU Method A.3).
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	Not determined.

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<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).
<b>Flammability</b>	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
<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>	Does not apply to solid.
<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, strong alkaline substance.
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	100 g/100 g H <sub>2</sub> O (25 °C, literature).
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined, it is an inorganic substance.
<b>Vapour pressure</b>	Not determined, the substance has melting point higher than 300 °C.
<b>Density and/or relative density</b>	2.13 g/cm <sup>3</sup> (20 °C, literature).
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	Not determined, solid NaOH is in the form of large particles (flakes).
<b>(R)-p-Mentha-1,8-diene</b>	CAS: 5989-27-5
<b>Physical state</b>	Liquid.
<b>Colour</b>	Colourless to yellowish.
<b>Odour</b>	Not determined.
<b>Melting point/freezing point</b>	199.5 K (OECD 102).
<b>Boiling point or initial boiling point and boiling range</b>	450.6 K (literature).
<b>Flammability</b>	The substance is classified as flammable liquid.
<b>Lower explosion limit</b>	Not determined.
<b>Upper explosion limit</b>	Not determined.
<b>Flash point</b>	51 °C (EU method A.9).
<b>Auto-ignition temperature</b>	245 °C (EU method A.15).

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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>	ca. 1 mm <sup>2</sup> /s (calculated from dynamic viscosity = 0.8462 mPa.s, OECD 114)
<b>Solubility</b>	12.3 mg/l (298.15 K, pH = 7, OECD 105).
<b>Partition coefficient n-octanol/water (log value)</b>	log Pow = -4.38 (37 °C, pH = 7.2, OECD 117).
<b>Vapour pressure</b>	200 Pa (298 K, literature).
<b>Density and/or relative density</b>	D <sub>4</sub> <sup>20</sup> = 0.844 (OECD 109).
<b>Relative vapour density</b>	Not determined.
<b>Particle characteristics</b>	Does not apply to liquid.

## 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 not classified as a flammable liquid according to the low concentration of the substance classified as a flammable liquid.

##### Flammable solids

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

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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 according to its 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, 4-C10-13-sec-alkyl derivs.**

CAS: 85536-14-7

### **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.

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## KRYSTAL Dishwashing balm

### **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 is not classified as self-reactive.

### **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**

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**

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## KRYSTAL Dishwashing balm

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**

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**

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## KRYSTAL Dishwashing balm

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.

**D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides**

CAS: 110615-47-9

### **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 (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 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**

It is not liquid.

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## KRYSTAL Dishwashing balm

### Oxidizing solids

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.

### 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

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

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## KRYSTAL Dishwashing balm

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.

(R)-p-Mentha-1,8-diene

CAS: 5989-27-5

### ***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 classified as flammable liquid category 3 according to the value of the flash 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.

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## KRYSTAL Dishwashing balm

### **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**

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.

### **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 explosive dust/air mixtures**

Not determined, it is not a dust.

#### **Acid/alkaline reserve**

Not determined, pH is in the range 4 - 10.

#### **Evaporation rate**

Not determined.

#### **Miscibility**

Not determined.

#### **Conductivity**

Not determined.

#### **Corrosiveness**

Not determined.

#### **Gas group**

Not determined, it is not gas.

#### **Redox potential**

Not determined.

#### **Radical formation potential**

Not determined.

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## KRYSTAL Dishwashing balm

<b>Photocatalytic properties</b>	Not determined.
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## 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 temperatures below 0 °C.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 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> > 22 554 mg/kg.

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

ATE<sub>mixture</sub> > 5 000 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 substance classified as toxic inhalation route of exposure).

##### Skin corrosion/irritation

The mixture is not classified as irritating to the skin according to the test.

Primary dermal index PDI = 0 (Open epicutaneous test).

##### 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

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## KRYSTAL Dishwashing balm

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 (R)-p-Mentha-1,8-diene, 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 does not contain substances classified as toxic for specific target organs in a single exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### 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 is not classified as aspiration hazard according to the general/specific concentration limits of substance(s).

### 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).

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## KRYSTAL Dishwashing balm

### **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**

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.

## 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).

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## KRYSTAL Dishwashing balm

### **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.

## D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides

CAS: 110615-47-9

### **Acute toxicity**

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

LD<sub>50</sub> > 5 000 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 = 2.9 (fully reversible after 17 days) and oedema = 2.1 (fully reversible after 10 days) (rabbit, 72 hrs., OECD 404).

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

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## KRYSTAL Dishwashing balm

The substance is classified as seriously damaging to the eyes.

Mean score of corneal opacity = 0.5 (not fully reversible after 21 days), iritis = 0.3 (fully reversible after 14 days), conjunctival redness = 2.1 (not fully reversible after 21 days), conjunctival oedema = 1 (not fully reversible after 21 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, 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 = 1 000 mg/kg/day (reproductive toxicity, oral, rat, generation P0, OECD 421).

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

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

NOAEL = 1000 mg/kg/day (systemic and cumulative effect, rat, oral, 90 d, EU Method B.26).

### **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**

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**

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## KRYSTAL Dishwashing balm

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.

(R)-p-Mentha-1,8-diene

CAS: 5989-27-5

### **Acute toxicity**

**Oral** Based on available data, the classification criteria are not met  
LD<sub>50</sub> > 2 000 mg/kg (rat, female, OECD 423).

**Dermal** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 5 000 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 = 2 (not fully reversible after 7 days) and oedema = 1.56 (not fully reversible after 7 days) (rabbit, OECD 404).

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

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

Mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 0.3, 1, 1.3 (fully reversible after 2 - 4 days), conjunctival oedema = 1, 0.3, 1 (fully reversible after 2 - 7 days) (rabbit, 72 h, OECD 405).

### **Respiratory or skin sensitisation**

The substance is classified as skin sensitising in category 1 (mouse, OECD 429).

### **Germ cell mutagenicity**

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

Negative (OECD 471, OECD 473, OECD 476).

### **Carcinogenicity**

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

NOAEL = 75 - 150 mg/kg/day (rat, male, oral, OECD 451).

NOAEL = 300 - 600 mg/kg/day (rat, female, oral, OECD 451).

### **Reproductive toxicity**

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

NOAEL = 500 mg/kg/day (clinical signs, mortality, body weight and weight gain, rat, oral, generation P0, OECD 415).

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

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

NOAEL = 1 650 mg/kg/day (mouse, oral, 28 days, OECD 407).

LOAEL = 3 300 mg/kg/day (mouse, oral, 28 days, OECD 407).

### **Aspiration hazard**

The substance is classified as aspiration hazard, it is a 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) meets 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	$\Sigma < 0.3$
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#### **Chronic aquatic toxicity**

The mixture is classified as Aquatic Chronic 3; H412 based on calculation according to the summation method.

category	1	2	3	4
$\Sigma$	< 0.3	< 3.0	< 41	not relevant

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

CAS: 85536-14-7

The substance is classified as Aquatic Chronic 3; H412.

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### 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).

### Crustaceans

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).

### Algae

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).

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

CAS: 68891-38-3

The substance is classified as Aquatic Chronic 3; H412.

### Fish

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).

### Crustaceans

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).

### D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides

CAS: 110615-47-9

The substance is not classified as hazardous for the aquatic environment.

### Fish

LC<sub>50</sub>, 96 hrs., *Danio rerio*: 2.95 mg/l (mortality).  
NOEC, 28 d., *Danio rerio*: 1.8 mg/l (mortality, OECD 204).  
NOEC, 28 d., *Danio rerio*: 3.2 mg/l (growth, OECD 204).

### Crustaceans

EC<sub>50</sub>, 48 hrs., *Daphnia Magna*: 7 mg/l (mobility).  
NOEC, 21 d., *Daphnia Magna*: 2 mg/l (reproduction, OECD 202).  
NOEC, 21 d., *Daphnia Magna*: 1 mg/l (mobility, OECD 202).

### Algae

EC<sub>50</sub>, 72 hrs., *Desmodesmus subspicatus*: 5 mg/l (biomass).  
EC<sub>50</sub>, 72 hrs., *Desmodesmus subspicatus*: 12.5 mg/l (growth rate).  
EC<sub>10</sub>, 72 hrs., *Desmodesmus subspicatus*: 1.45 mg/l (biomass).  
EC<sub>10</sub>, 72 hrs., *Desmodesmus subspicatus*: 4.15 mg/l (growth rate).

### Sodium hydroxide

CAS: 1310-73-2

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The substance is not classified as dangerous for the aquatic environment.

### Fish

LC<sub>50</sub>, 48 hrs, Leuciscus idus: 189 mg/l (mortality).

### Crustaceans

EC<sub>50</sub>, 48 hrs, Ceriodaphnia sp.: 40.4 mg/l (immobility).

### Algae

Data for the substance are not available.

### (R)-p-Mentha-1,8-diene

CAS: 5989-27-5

The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 1; H410 (M=1).

### Fish

LC<sub>50</sub>, 96 hrs., Pimephales promelas: 720 µg/l (mortality, OECD 203).

EC<sub>50</sub>, 96 hrs., Pimephales promelas: 688 µg/l (mobility, OECD 203).

NOEC, 8 d., Pimephales promelas: 0.37 mg/l (hatching rate, OECD 212).

NOEC, 8 d., Pimephales promelas: 0.19 mg/l (abnormal appearance and behaviour, OECD 212).

NOEC, 8 d., Pimephales promelas: 0.059 mg/l (length, OECD 212).

### Crustaceans

EC<sub>50</sub>, 48 hrs., Daphnia Magna: 0.307 mg/l (mobility, OECD 202).

NOEC, 21 d., Daphnia Magna: 80 µg/l (number of live offspring, OECD 211).

### Algae

EC<sub>50</sub>, 72 hrs., Desmodesmus subspicatus: 0.32 mg/l (growth rate, OECD 201).

EC<sub>10</sub>, 72 hrs., Desmodesmus subspicatus: 0.174 mg/l (growth rate, OECD 201).

## 12.2. Persistence and degradability

### Mixture

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.

### 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).

### 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).

### D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides

CAS: 110615-47-9

Readily biodegradable: 88 % after 28 days (c = 2 mg/l, O<sub>2</sub> consumption, OECD 301 D).

Readily biodegradable: 60 % after 28 days (c = 5 mg/l, O<sub>2</sub> consumption, OECD 301 D).

### Sodium hydroxide

CAS: 1310-73-2

Not determined, it is an inorganic substance.

### (R)-p-Mentha-1,8-diene

CAS: 5989-27-5

Readily biodegradable: 80 % after 28 days (O<sub>2</sub> consumption, OECD 301 D).

## 12.3. Bioaccumulative potential

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<b>Mixture</b>	
Data for the mixture are not available.	
<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.</b>	CAS: 85536-14-7
log Pow = 2.2 (23 °C, pH = 3.7, OECD 123).	
<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>D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides</b>	CAS: 110615-47-9
log Pow ≤ -0.07 (20 °C, calculation).	
<b>Sodium hydroxide</b>	CAS: 1310-73-2
Not determined, it is an inorganic substance.	
<b>(R)-p-Mentha-1,8-diene</b>	CAS: 5989-27-5
BCF = 360.5 (Q)SAR method.	
log Pow = 4.38 (37 °C, pH = 7.2).	
<b>12.4. Mobility in soil</b>	
<b>Mixture</b>	
Data for the mixture are not available.	
<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.</b>	CAS: 85536-14-7
Not determined.	
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	CAS: 68891-38-3
Koc = 2.2 (Q)SAR method.	
<b>D-Glucopyranose, oligomeric, C10-16 (even numbered) alkyl glycosides</b>	CAS: 110615-47-9
log Koc = 1.7 (25 °C).	
<b>Sodium hydroxide</b>	CAS: 1310-73-2
Not determined, it is an inorganic substance.	
<b>(R)-p-Mentha-1,8-diene</b>	CAS: 5989-27-5
Koc = 1 120.	
<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>	
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.	
<b>12.7. Other adverse effects</b>	

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## KRYSTAL Dishwashing balm

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

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

#### 14.1. UN number or ID number

Not given.

#### 14.2. UN proper shipping name

Not given.

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

Not given.

#### 14.4. Packing group

Not given.

#### 14.5. Environmental hazards

It is not dangerous for the environment during transport.

#### 14.6. Special precautions for user

Not given.

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

Not available.

### SECTION 15: Regulatory information

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### 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

First edition.

### 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
Asp. Tox. 1	Aspiration hazard, cat. 1
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, 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 Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1A	Skin sensitization, cat. 1A
Skin Sens. 1	Skin sensitization, cat. 1
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

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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.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
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.
P273	Avoid release to the environment.
P280	Wear eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### Training advice

According to SDS.

### Other information

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## **KRYSTAL Dishwashing balm**

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.