

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: 15. 08. 2023

Version: 6.0

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

1.1. Product identifier

Product Name

KRYSTAL For kitchen

UFI code

UFI: H0Q0-D070-P00V-5EC0

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

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, Sodium hydroxide.

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
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.			
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
Propan-2-ol; Isopropyl alcohol; Isopropanol			
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		
2-Butoxyethanol; Ethylene glycol monobutyl ether; Butyl cellosolve			
CAS Number	111-76-2	< 2.0	Acute Tox. 4; H302
EC Number	203-905-0		Skin Irrit. 2; H315
Index Number	603-014-00-0		Eye Irrit. 2; H319
Registration Number	01-2119475108-36-XXXX		Acute Tox. 3; H331
			ATE _{oral} = 1 200 mg/kg bw ATE _{Inhalation} = 3 mg/L (vapours)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts			
CAS Number	68891-38-3	< 2.0	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:			

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Eye Dam. 1; H318	C ≥ 10 %	
Eye Irrit. 2; H319	5 % < C < 10 %	
Sodium hydroxide; Caustic soda		
CAS Number	1310-73-2	
EC Number	215-185-5	Met. Corr. 1; H290
Index Number	011-002-00-6	< 0.51 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 %	
Skin Irrit. 2; H315	0.5 % ≤ C < 2 %	
Eye Irrit. 2; H319	0.5 % ≤ C < 2 %	
Citral; (2E)-3,7-Dimethylocta-2,6-dienal		
CAS Number	5392-40-5	
EC Number	226-394-6	Skin Irrit. 2; H315
Index Number	605-019-00-3	≤ 0.1 Skin Sens. 1; H317
Registration Number	01-2119462829-23-XXXX	Eye Irrit. 2; H319
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		
		Acute Tox. 3; H301
		Acute Tox. 2; H310
		Skin Corr. 1C; H314
		Eye Dam. 1; H318
CAS Number	55965-84-9	Skin Sens. 1A; H317
EC Number	not given	Acute Tox. 2; H330
Index Number	613-167-00-5	Aquatic Acute 1; H400
Registration Number	not yet available	Aquatic Chronic 1; H410
		EUH071
		M=100
		M(Chronic)=100
The substance has specific concentration limits:		
Skin Corr. 1C; H314	C ≥ 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 %	
Ethanediol; Ethylene glycol		
CAS Number	107-21-1	
EC Number	203-473-3	Acute Tox. 4; H302
Index Number	603-027-00-1	< 0.0001 STOT RE 2; H373
Registration Number	not yet available	

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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

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 CO₂, 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

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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

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)

Usefull 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

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Limit values - Eight hours		Limit values - Short-term		Note
98 mg/m ³	20 ppm	246 mg/m ³	50 ppm	skin
Ethandiol				CAS: 107-21-1
Limit values - Eight hours		Limit values - Short-term		Note
52 mg/m ³	20 ppm	104 mg/m ³	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 ³
Workers	Dermal	Systemic effect	Long term	119 mg/kg/day
General population	Inhalation	Systemic effect	Long term	1.3 mg/m ³
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		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
PNEC				
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
Propan-2-ol				CAS: 67-63-0
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	500 mg/m ³
Workers	Inhalation	Systemic effect	Acute/short term	1 000 mg/m ³
Workers	Dermal	Systemic effect	Long term	888 mg/kg/day
General population	Inhalation	Systemic effect	Long term	89 mg/m ³
General population	Inhalation	Systemic effect	Acute/short term	178 mg/m ³
General population	Dermal	Systemic effect	Long term	319 mg/kg/day
General population	Oral	Systemic effect	Long term	26 mg/kg/day
General population	Oral	Systemic effect	Acute/short term	51 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		

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		Fresh water	Marine water	Sewage Treatment Plant (STP)
140.9 mg/l	140.9 mg/l	140.9 mg/l	not given	2 251 mg/l
PNEC				
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
2-Butoxyethanol				CAS: 111-76-2
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	98 mg/m ³
Workers	Inhalation	Systemic effect	Acute/short term	1 091 mg/m ³
Workers	Inhalation	Local effect	Acute/short term	246 mg/m ³
General population	Inhalation	Systemic effect	Long term	59 mg/m ³
General population	Inhalation	Systemic effect	Acute/short term	426 mg/m ³
General population	Inhalation	Local effect	Acute/short term	147 mg/m ³
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
PNEC				
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
PNEC				
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
Alcohols, C12-14, ethoxylated, sulfates, sodium salts				CAS: 68891-38-3
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	175 mg/m ³
Workers	Dermal	Systemic effect	Long term	2 750 mg/kg/day
Workers	Dermal	Local effect	Long term	132 µg/cm ²
General population	Inhalation	Systemic effect	Long term	52 mg/m ³
General population	Dermal	Systemic effect	Long term	1 650 mg/kg/day
General population	Dermal	Local effect	Long term	79 µg/cm ²
General population	Oral	Systemic effect	Long term	15 mg/kg/day
PNEC				

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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
PNEC				
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
Sodium hydroxide				CAS: 1310-73-2
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	1 mg/m ³
General population	Inhalation	Local effect	Long term	1 mg/m ³
PNEC - not yet available				
Citral				CAS: 5392-40-5
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	9 mg/m ³
Workers	Dermal	Systemic effect	Long term	1.7 mg/kg/day
Workers	Dermal	Local effect	Long term	140 µg/cm ²
General population	Inhalation	Systemic effect	Long term	2.7 mg/m ³
General population	Dermal	Systemic effect	Long term	1 mg/kg/day
General population	Dermal	Local effect	Long term	140 µg/cm ²
General population	Oral	Systemic effect	Long term	0.6 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.007 mg/l	0.001 mg/l	0.068 mg/l	not given	1.6 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.125 mg/kg	0.013 mg/kg	no effect	0.021 mg/kg	no effect
8.2. Exposure controls				
8.2.1. Appropriate engineering controls				
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.				
8.2.2. Individual protection measures, such as personal protective equipment				
Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.				

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Eye/face protection

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

Skin protection - hand protection

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

Recommended gloves material: nitrile rubber, neoprene, butyl rubber, polyvinyl chloride

Non-recommended glove material: leather

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

Skin protection - other

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

Respiratory protection

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

Thermal hazards

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

8.2.3. Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Mixture

Physical state	Liquid.
Colour	Green.
Odour	Characteristic.
Melting point/freezing point	Not determined.
Boiling point or initial boiling point and boiling range	100 °C
Flammability	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.
Lower explosion limit	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.
Upper explosion limit	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.

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Flash point	54 °C.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined, the mixture does not contain self-reactive substances or organic peroxides or other substances which may decompose.
pH	9.5 – 10.5 (20 °C).
Kinematic viscosity	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. %.
Solubility	Fully miscible.
Partition coefficient n-octanol/water (log value)	Does not apply to mixture.
Vapour pressure	23 hPa
Density and/or relative density	Not determined.
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. CAS: 85536-14-7	
Physical state	Liquid.
Colour	Brown.
Odour	Characteristic.
Melting point/freezing point	279.5 K (EU method A.1).
Boiling point or initial boiling point and boiling range	462.2 K (EU method A.2).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	196.9 °C (ASTM D93/07).
Auto-ignition temperature	380 °C (ASTM E 659-78).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	> 16 g/ 100 g H ₂ O (20 °C, OECD 105).
Partition coefficient n-octanol/water (log value)	log Pow = 2.2 (23 °C, pH = 3.7, OECD 123).
Vapour pressure	1.06 * 10 ⁻⁸ Pa (25 °C, (Q)SAR method).
Density and/or relative density	D ₄ ²⁰ = 1.05 (OECD 109).
Relative vapour density	Not determined.

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Particle characteristics	Does not apply to liquid.
Propan-2-ol	CAS: 67-63-0
Physical state	Liquid.
Colour	Colopurless.
Odour	Not determined.
Melting point/freezing point	-88.5 °C (literature).
Boiling point or initial boiling point and boiling range	82.3 °C (literature).
Flammability	Highly flammable liquid.
Lower explosion limit	2 vol. % (literature).
Upper explosion limit	13 vol. % (literature).
Flash point	11.7 °C (literature).
Auto-ignition temperature	399 - 455.6 °C (literature).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	Miscible with water.
Partition coefficient n-octanol/water (log value)	log Pow = 0.05 (25 °C, literature).
Vapour pressure	Not determined.
Density and/or relative density	785.5 kg/m ³ (20 °C, literature).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
2-Butoxyethanol	CAS: 111-76-2
Physical state	Liquid.
Colour	Colorless.
Odour	Etheric.
Melting point/freezing point	-74.8 °C (literature).
Boiling point or initial boiling point and boiling range	173.5 °C (IP123/93).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	67 °C (DIN 51758).
Auto-ignition temperature	230 °C (literature).

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

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Colour	White.
Odour	Odourless.
Melting point/freezing point	323 °C (literature).
Boiling point or initial boiling point and boiling range	1 388 °C (literature).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Does not apply to solid.
Upper explosion limit	Does not apply to solid.
Flash point	Does not apply to solid.
Auto-ignition temperature	Does not apply to solid.
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined, strong alkaline substance.
Kinematic viscosity	Does not apply to solid.
Solubility	100 g/100 g H ₂ O (25 °C, literature).
Partition coefficient n-octanol/water (log value)	Not determined, it is an inorganic substance.
Vapour pressure	Not determined, the substance has melting point higher than 300 °C.
Density and/or relative density	2.13 g/cm ³ (20 °C, literature).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined, solid NaOH is in the form of large particles (flakes).
Citral CAS: 5392-40-5	
Physical state	Liquid.
Colour	Slightly yellowish.
Odour	Not determined.
Melting point/freezing point	< -20 °C (literature).
Boiling point or initial boiling point and boiling range	ca. 230 °C (OECD 113).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	98 °C (literature).
Auto-ignition temperature	225 °C (DIN 51 794).
Decomposition temperature	180 °C (OECD 113).

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pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	0.42 g/l (25 °C, OECD 105).
Partition coefficient n-octanol/water (log value)	2.76 (25 °C, OECD 107).
Vapour pressure	0.071 hPa (25 °C, dynamic method).
Density and/or relative density	0.89 (voda = 1, 20 °C, literature).
Relative vapour density	Not determined.
Particle characteristics	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

The mixture is classified as flammable liquid category 3 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 mixture are not available.

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

Pyrophoric liquids

Data for the mixture are not available.

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

Pyrophoric solids

It is not solid.

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Self-heating substances and mixtures

Data for the mixture are not available.

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

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

Data for the mixture are not available.

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

Oxidising liquids

Data for the mixture are not available.

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

Oxidizing solids

It is not solid.

Organic peroxides

Data for the mixture are not available.

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

Corrosive to metals

Data for the mixture are not available.

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

Desensitised explosives

Data for the mixture are not available.

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

Benzenesulfonic acid, 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.

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 and boiling point.

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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.

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

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KRYSTAL For kitchen

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

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

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

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

Pyrophoric liquids

Data for the substance are not available.

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

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

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

Oxidising liquids

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.

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Desensitised explosives

Data for the substance are not available.

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

2-Butoxyethanol

CAS: 111-76-2

Explosives

Data for the substance are not available.

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

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

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

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

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

Pyrophoric liquids

Data for the substance are not available.

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

Pyrophoric solids

It is not solid.

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

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KRYSTAL For kitchen

It is not solid.

Organic peroxides

Data for the substance are not available.

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

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

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

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

CAS: 68891-38-3

Explosives

Data for the substance are not available.

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

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

It is not liquid.

Flammable solids

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

Self-reactive substances and mixtures

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

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KRYSTAL For kitchen

Data for the substance are not available.

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

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

Oxidising liquids

It is not liquid.

Oxidizing solids

Data for the substance are not available.

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

Organic peroxides

Data for the substance are not available.

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

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

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

Sodium hydroxide

CAS: 1310-73-2

Explosives

Data for the substance are not available.

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

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

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

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KRYSTAL For kitchen

It is not liquid.

Pyrophoric solids

Data for the substance are not available.

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

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

Oxidising liquids

It is not liquid.

Oxidising solids

Data for the substance are not available.

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

Organic peroxides

Data for the substance are not available.

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

Corrosive to metals

Data for the substance are not available.

The substance is classified as corrosive to metal category 1.

Desensitised explosives

Data for the substance are not available.

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

Citral

CAS: 5392-40-5

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

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KRYSTAL For kitchen

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.

9.2.2. Other safety characteristics

Mechanical sensitivity

Not determined, it is not an explosive substance.

Self-accelerating polymerisation temperature

Not determined, it is not a polymerising substance.

Formation of explosible dust/air mixtures

Not determined, it is not a dust.

Acid/alkaline reserve

Not determined.

Evaporation rate

Not determined.

Miscibility

Not determined.

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Conductivity	Not determined.
Corrosiveness	Not determined.
Gas group	Not determined, it is not gas.
Redox potential	Not determined.
Radical formation potential	Not determined.
Photocatalytic properties	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

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_{mixture} > 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_{mixture} > 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_{mixture} > 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).

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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).

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.
LD₅₀ = ca. 1 470 mg/kg (rat, OECD 401).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 2 000 mg/kg (rabbit, OECD 402).

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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

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 mm²/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.

LD₅₀ = 5 840 mg/kg (rat, OECD 401).

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- Dermal** Based on available data, the classification criteria are not met.
LD₅₀ = 16.4 ml/kg (12 792 mg/kg at a density of 0.78 g/cm³, rabbit, OECD 402).
- Inhalation** Based on available data, the classification criteria are not met.
LC₅₀ > 10 000 ppm (vapour, 6 h, OECD 403).

Skin corrosion/irritation

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

Serious eye damage/irritation

The substance is classified as eye irritant.
Total mean irritation score = 1.89 (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

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

Germ cell mutagenicity

Based on available data, the classification criteria are not met.
Negative (OECD 471, OECD 476).

Carcinogenicity

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

Reproductive toxicity

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

STOT – single exposure

The substance may cause drowsiness or dizziness.

STOT – repeated exposure

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

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

2-Butoxyethanol

CAS: 111-76-2

Acute toxicity

- Oral** The substance is classified in category 4.
LD₅₀ = 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.
LD₅₀ > 2 000 mg/kg (rabbit, OECD 402).

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KRYSTAL For kitchen

Inhalation The substance is classified in category 3 according to harmonized classification.
ATE = 3 mg/l (vapour) according to harmonized classification.

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

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 mm²/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.

LD₅₀ = 4 100 mg/kg (rat, OECD 401).

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Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 2 000 mg/kg (rabbit, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.

Mean erythema score = 3.2 and oedema = 3.2 (fully reversible) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Mean score of corneal opacity = 1.3 (not fully reversible after 21 days), iritis = 0.8 (not fully reversible after 21 days), conjunctival redness = 3 (fully reversible), conjunctival edema = 1 (fully reversible) (rabbit, 72 h, OECD 405)

Respiratory or skin sensitisation

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

Not skin sensitising (guinea pig, OECD 406).

Germ cell mutagenicity

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

Negative (OECD 471, OECD 476).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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

NOAEL = 300 mg/kg/day (systemic effects, rat, oral, generation P0, OECD 416).

NOAEL = 300 mg/kg/day (reproduction, rat, oral, generation P0, OECD 416).

NOAEL = 300 mg/kg/day (rat, oral, generation F1, OECD 416).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL > 225 mg/kg/day (systemic toxicity, rat, oral, 90 days, OECD 408).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

Sodium hydroxide

CAS: 1310-73-2

Acute toxicity

Oral Data for the substance are not available.

Dermal Data for the substance are not available.

Inhalation Data for the substance are not available.

Skin corrosion/irritation

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KRYSTAL For kitchen

Substance is classified as skin corrosive category 1A.

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

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

Serious eye damage/irritation

Substance is classified as serious eye damage.

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

Respiratory or skin sensitization

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

Not skin sensitising (human).

Germ cell mutagenicity

Data for the substance are not available.

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Data for the substance are not available.

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

Citral

CAS: 5392-40-5

Acute toxicity

Oral

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

LD₅₀ = ca. 6 800 mg/kg (rat).

Dermal

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

LD₅₀ > 2 000 mg/kg (rabbit).

Inhalation

Data for the substance are not available.

Skin corrosion/irritation

The substance classified as skin irritant.

Mean erythema score = 2.75 and oedema = 2.25 (not fully reversible after 8 days) (rabbit, 72 hrs., OECD 404).

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Serious eye damage/irritation

The substance classified as eye irritant.

Mean score of corneal opacity = 1.0 (fully reversible after), iritis = 0, conjunctival redness = 1.5 (not fully reversible after 8 days), conjunctival oedema = 1.25 (fully reversible after 7 days) (rabbit, 72 hrs., 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

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

NOAEL = 100 mg/kg/day (toxicity, rat, oral, OECD 453).

NOAEL = 210 mg/kg/day (toxicity, rat, oral, OECD 453).

Reproductive toxicity

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

NOAEL = 200 mg/kg/day (parental toxicity, oral, rat, generation P0, OECD 421).

NOAEL = 1 000 mg/kg/day (reproductive toxicity, oral, rat, generation P0, OECD 421).

NOAEL = 200 mg/kg/day (development toxicity, oral, rat, generation F1, 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.

LOAEL = 345 mg/kg/day (body weight change, oral, rat, male, 90 days, OECD 408).

LOAEL = 335 mg/kg/day (body weight change, oral, rat, female, 90 days, OECD 408).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

11.2. Information on other hazards

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

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

SECTION 12: Ecological information

12.1. Toxicity

Mixture

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Data for the mixture are not available.				
Acute aquatic toxicity				
The mixture is not classified as acute aquatic toxicity based on calculation according to the summation method.				
category 1		$\sum < 0.15$		
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
\sum	< 0.15	< 1.5	< 20.6	< 5.6015
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.			CAS: 85536-14-7	
The substance is classified as Aquatic Chronic 3; H412.				
Fish				
LC ₅₀ , 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 ₅₀ , 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 ₅₀ , 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).				
Propan-2-ol			CAS: 67-63-0	
The substance is not classified as hazardous for the aquatic environment.				
Fish				
LC ₅₀ , 96 hrs., Pimephales promelas: 9 640 - 10 000 mg/l (mortality, OECD 203)				
Crustaceans				
EC ₅₀ , 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)				
Algae				
Threshold toxicity, 7 d., Scenedesmus quadricauda: 1.800 mg/l				
2-Butoxyethanol			CAS: 111-76-2	
The substance is not classified as hazardous for the aquatic environment.				
Fish				
LC ₅₀ , 96 hrs., Oncorhynchus mykiss: 1 474 (mortality, OECD 203). NOEC, 21 d., Brachydanio rerio: > 100 mg/l (markers for endocrine disruptive effects, OECD 204).				
Crustaceans				

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EC₅₀, 48 hrs., Daphnia Magna: 1 550 mg/l (mobility, OECD 202).
EC₁₀, 21 d., Daphnia Magna: 1 800 mg/l (mortality, OECD 202).
NOEC, 21 d., Daphnia Magna: 100 mg/l (reproduction, OECD 202).

Algae

EC₅₀, 72 hrs., Selenastrum capricornutum: 911 mg/l (biomass, OECD 201).
EC₅₀, 72 hrs., Selenastrum capricornutum: 1 840 mg/l (growth rate, OECD 201).
EC₁₀, 72 hrs., Selenastrum capricornutum: 308 mg/l (biomass, OECD 201).
EC₁₀, 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).

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

CAS: 68891-38-3

The substance is classified as Aquatic Chronic 3; H412.

Fish

LC₅₀, 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

EC₅₀, 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

EC₅₀, 72 hrs., Desmodesmus subspicatus: 27.7 mg/l (growth rate, OECD 201).
EC₁₀, 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).

Sodium hydroxide

CAS: 1310-73-2

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

Fish

LC₅₀, 48 hrs, Leuciscus idus: 189 mg/l (mortality).

Crustaceans

EC₅₀, 48 hrs, Ceriodaphnia sp.: 40.4 mg/l (immobility).

Algae

Data for the substance are not available.

Citral

CAS: 5392-40-5

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

Fish

LC₅₀, 96 hrs., Leuciscus idus: 6.78 mg/l (mortality, DIN 38412).
NOEC, 96 hrs., Leuciscus idus: 4.6 mg/l (mortality, DIN 38412).

Crustaceans

EC₅₀, 48 hrs., Daphnia Magna: 6.8 mg/l (mobility).
EC₀, 48 hrs., Daphnia Magna: 3.13 mg/l (mobility).

Algae

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KRYSTAL For kitchen

EC₅₀, 72 hrs., *Desmodemus subspicatus*: 103.8 mg/l (growth rate, DIN 38412).

EC₁₀, 72 hrs., *Desmodemus subspicatus*: 3 mg/l (growth rate, DIN 38412).

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 (CO₂ evolution, OECD 301 B).

2-Butoxyethanol

CAS: 111-76-2

Readily biodegradable: 90.4 % after 28 days (CO₂ 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).

Sodium hydroxide

CAS: 1310-73-2

Not determined, it is an inorganic substance.

Citral

CAS: 5392-40-5

Readily biodegradable: 85 - 95 % after 28 days (O₂ consumption, OECD 301 D).

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).

Sodium hydroxide

CAS: 1310-73-2

Not determined, it is an inorganic substance.

Citral

CAS: 5392-40-5

BCF = 89.72 (calculation).

log Pow = 2.76 (25 °C, OECD 107).

12.4. Mobility in soil

Mixture

Data for the mixture are not available.

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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
Data for the substance are not available.	
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS: 68891-38-3
Koc = 2.2 (Q)SAR method.	
Sodium hydroxide	CAS: 1310-73-2
Not determined, it is an inorganic substance.	
Citral	CAS: 5392-40-5
log Koc = 2.169 (calculation).	
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	
Flammability.	
Special precautions recommended for waste management	

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KRYSTAL For kitchen

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).

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	5l
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

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KRYSTAL For kitchen

Emergency Schedules (EmS)

F-E, S-D.

SECTION 15: Regulatory information

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

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

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

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

15.2. Chemical safety assessment

Has not been carried out for mixture.

SECTION 16: Other information

Reason for the revision of the safety data sheet

Change of the 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
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. 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
bw	body weight

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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
STOT	Specific target organ toxicity
vPvB	Very persistent and very bioaccumulative substance

Sources of key data used to compile the Safety Data Sheet

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

List of H- and P- phrases

EUH071	Corrosive to the respiratory tract.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
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.

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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

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.