

SAFETY DATA SHEET

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

KRYSTAL Oil freshener green

Date of revision: 27. 10. 2021

Version: 4.0

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Date of issue: 26. 11. 2012

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

1.1. Product identifier

Product Name

KRYSTAL Oil freshener green

UFI code

UFI: 7JD0-Q09C-000E-DV7W

Product code

None

Mixture description

Water solution.

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

Identified uses

Liquid highly effective agent for perfuming toilets, bathrooms and public spaces.
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

telephone: +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.

Classification according to 1272/2008/EC

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Flam. Liq. 3; H226

Eye Irrit. 2; H319

Aquatic Chronic 3; H412

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 serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms



Signal word

Warning.

Substances of the mixture to be placed on the label

Not given.

Hazard statements

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

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.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: 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

EUH208 - Contains Citronellol, (R)-p-Mentha-1,8-diene, α -Hexylcinnamaldehyde, Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-, 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% non-ionic surfactants, < 5% perfumes, CITRONELLOL, LIMONENE, HEXYL CINNAMAL, LINALOOL, CITRAL, BUTYLPHENYL METHYLPROPIONAL, ISOEUGENOL, 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
Propan-2-ol; Isopropyl alcohol; Isopropanol		
CAS Number 67-63-0		Flam. Liq. 2; H225
EC Number 200-661-7	≤ 15.0	Eye Irrit. 2; H319
Index Number 603-117-00-0		STOT SE 3; H336
Registration Number 01-2119457558-25-XXXX		
Alcohols, C12-14, (even numbered) ethoxylated		
CAS Number 68439-50-9		Acute Tox. 4; H302
EC Number not given	≤ 5.0	Eye Dam. 1; H318
Index Number not given		Aquatic Chronic 3; H412
Registration Number polymer, not subject to registration		
The substance has specific concentration limits:		
Eye Dam. 1; H318	C ≥ 10 %	
Eye Irrit. 2; H319	1 % < C < 10 %	
Citronellol; 3,7-Dimethyloct-6-en-1-ol		
CAS Number 106-22-9		Skin Irrit. 2; H315
EC Number 203-375-0	< 0.4	Skin Sens. 1B; H317
Index Number not given		Eye Irrit. 2; H319
Registration Number 01-2119453995-23-XXXX		
(R)-p-Mentha-1,8-diene; d-Limonene		
CAS Number 5989-27-5		Flam. Liq. 3; H226
EC Number 227-813-5		Skin Irrit. 2; H315
Index Number 601-029-00-7	< 0.3	Skin Sens. 1; H317
Registration Number not yet available		Aquatic Acute 1; H400
		Aquatic Chronic 1; H410
		M=1
		M(Chronic)=1
(E)-2-Benzylideneoctanal; α-Hexylcinnamaldehyde		

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CAS Number	165184-98-5		Skin Sens. 1; H317
EC Number	639-566-4		Aquatic Acute 1; H400
Index Number	not given	< 0.3	Aquatic Chronic 2; H411
Registration Number	01-2119533092-50-XXXX		M=1

Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-; Reaction mass of Geraniol and Nerol

CAS Number	not given		Skin Irrit. 2; H315
EC Number	906-125-5		Skin Sens. 1; H317
Index Number	not given	< 0.15	Eye Dam. 1; H318
Registration Number	01-2119560621-44-XXXX		

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

CAS Number	55965-84-9		Acute Tox. 3; H301
EC Number	not given		Acute Tox. 2; H310
Index Number	613-167-00-5	< 0.0015	Skin Corr. 1C; H314
Registration Number	not yet available		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	$C \geq 0.6 \%$
Eye Dam. 1; H318	$C \geq 0.6 \%$
Skin Irrit. 2; H315	$0.06 \% \leq C < 0.6 \%$
Eye Irrit. 2; H319	$0.06 \% \leq C < 0.6 \%$
Skin Sens. 1A; H317	$C \geq 0.0015 \%$

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

SECTION 4: First aid measures

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

4.1. Description of first aid measures

Inhalation

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

Skin contact

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

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.

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

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

7.3. Specific end use(s)

Instructions for use: Spray into the container for toilet brush, waste bin, artificial flower pots, or similar places from which the scent will be gradually released. Do not use freely in space.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure limit value

Not determined.

8.1.2. Biological limit values

Not determined in EU.

8.1.3. DNEL and PNEC values

Propan-2-ol

CAS: 67-63-0

DNEL

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

PNEC

Fresh water

Marine water

Intermittent releases

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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
Citronellol				CAS: 106-22-9
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	161.6 mg/m ³
Workers	Inhalation	Local effect	Long term	10 mg/m ³
Workers	Inhalation	Local effect	Acute/short term	10 mg/m ³
Workers	Dermal	Systemic effect	Long term	327.4 mg/kg/day
Workers	Dermal	Local effect	Acute/short term	2 950 µg/cm ²
General population	Inhalation	Systemic effect	Long term	47.8 mg/m ³
General population	Inhalation	Local effect	Long term	10 mg/m ³
General population	Inhalation	Local effect	Acute/short term	10 mg/m ³
General population	Dermal	Systemic effect	Long term	196.4 mg/kg/day
General population	Dermal	Local effect	Acute/short term	2 950 µg/cm ²
General population	Oral	Systemic effect	Long term	13.8 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
0.002 mg/l	0 mg/l	Fresh water	Marine water	580 mg/l
0.024 mg/l	not given			
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.026 mg/kg	0.003 mg/kg	no effect	0.004 mg/kg	not given
(E)-2-Benzylidenoctanal				CAS: 165184-98-5
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	0.078 mg/m ³
Workers	Inhalation	Local effect	Acute/short term	6.28 mg/m ³
Workers	Dermal	Systemic effect	Long term	18.2 mg/kg/day
Workers	Dermal	Local effect	Long term	525 µg/cm ²
Workers	Dermal	Local effect	Acute/short term	525 µg/cm ²
General population	Inhalation	Systemic effect	Long term	0.019 mg/m ³
General population	Inhalation	Local effect	Acute/short term	4.71 mg/m ³

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General population	Dermal	Systemic effect	Long term	9.11 mg/kg/day
General population	Dermal	Local effect	Long term	78.7 µg/cm ²
General population	Dermal	Local effect	Acute/short term	78.7 µg/cm ²
General population	Oral	Systemic effect	Long term	0.056 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.001 mg/l	0 mg/l	0.002 mg/l	not given	10 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
3.2 mg/kg	0.064 mg/kg	no effect	0.398 mg/kg	6.6 mg/kg food
Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-				ES: 906-125-5
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	14.7 mg/m ³
Workers	Dermal	Systemic effect	Long term	8.3 mg/kg/day
Workers	Dermal	Local effect	Long term	11 800 µg/cm ²
General population	Inhalation	Systemic effect	Long term	4.3 mg/m ³
General population	Dermal	Systemic effect	Long term	5 mg/kg/day
General population	Dermal	Local effect	Long term	11 800 µg/cm ²
General population	Oral	Systemic effect	Long term	2.5 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.011 mg/l	0.001 mg/l	0.108 mg/l	not given	0.7 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.115 mg/kg	0.011 mg/kg	no effect	0.017 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.				
Eye/face protection				

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

Skin protection - hand protection

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

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

Skin protection - other

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

Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator). 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	82 °C.
Flammability	The mixture is classified as flammable liquid according to the value of the flash point.
Lower explosion limit	Not determined for the mixture, values are given for substances classified as flammable liquids.
Upper explosion limit	Not determined for the mixture, values are given for substances classified as flammable liquids.
Flash point	> 34 - < 60 ° C (according to the determination of the flash point of a similar mixture).
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined, the mixture does not contain self-reactive substances or organic peroxides.
pH	7 (20 °C).

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<i>Kinematic viscosity</i>	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. %.
<i>Solubility</i>	Complete miscible.
<i>Partition coefficient n-octanol/water (log value)</i>	Does not apply to mixture.
<i>Vapour pressure</i>	43 hPa.
<i>Density and/or relative density</i>	0.97 g/cm ³ (20 °C).
<i>Relative vapour density</i>	Not determined.
<i>Particle characteristics</i>	Does not apply to liquid.
Propan-2-ol	CAS: 67-63-0
<i>Physical state</i>	Liquid.
<i>Colour</i>	Colourless.
<i>Odour</i>	Not determined.
<i>Melting point/freezing point</i>	-88.5 °C (literature).
<i>Boiling point or initial boiling point and boiling range</i>	82.3 °C (literature).
<i>Flammability</i>	Highly flammable liquid.
<i>Lower explosion limit</i>	2 vol. % (literature).
<i>Upper explosion limit</i>	13 vol. % (literature).
<i>Flash point</i>	11.7 °C (literature).
<i>Auto-ignition temperature</i>	399 - 455.6 °C (literature).
<i>Decomposition temperature</i>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<i>pH</i>	Not determined.
<i>Kinematic viscosity</i>	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
<i>Solubility</i>	Miscible with water.
<i>Partition coefficient n-octanol/water (log value)</i>	log Pow = 0.05 (25 °C, literature).
<i>Vapour pressure</i>	Not determined.
<i>Density and/or relative density</i>	785.5 kg/m ³ (20 °C, literature).
<i>Relative vapour density</i>	Not determined.
<i>Particle characteristics</i>	Does not apply to liquid.
Alcohols, C12-14, (even numbered) ethoxylated	CAS: 68439-50-9
<i>Physical state</i>	Liquid.
<i>Colour</i>	Colourless to yellowish.
<i>Odour</i>	Alcoholic.
<i>Melting point/freezing point</i>	16 °C.

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Boiling point or initial boiling point and boiling range	> 250 °C.
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	125 °C.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	5.0 - 7.0 (1% solution, 20 °C).
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure	Not determined.
Density and/or relative density	0.98 g/cm ³ (20 °C).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Citronellol	CAS: 106-22-9
Physical state	Liquid.
Colour	Colourless.
Odour	Not determined.
Melting point/freezing point	< -20 °C.
Boiling point or initial boiling point and boiling range	223.8 °C.
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	107 °C (EU method A.9).
Auto-ignition temperature	240 °C (DIN 51794).
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.

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Solubility	307 mg/l (25 °C, OECD 105).
Partition coefficient n-octanol/water (log value)	log Pow = 3.41 (25 °C, EU method A.8).
Vapour pressure	1 hPa (67 °C).
Density and/or relative density	854.9 kg/m ³ (20 °C).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
(E)-2-Benzylidenoctanal CAS: 165184-98-5	
Physical state	Liquid.
Colour	Yellow.
Odour	Jasmine.
Melting point/freezing point	ca. 17.6 °C (OECD 102).
Boiling point or initial boiling point and boiling range	ca. 310.8 °C (OECD 103).
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	ca. 151 °C.
Auto-ignition temperature	ca. 235.5 °C (EU method A.15).
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	1.57 - 1.68 mg/l (20 °C, pH = 4 – 7, OECD 105).
Partition coefficient n-octanol/water (log value)	ca. 5.3 (24 °C, OECD 117).
Vapour pressure	0.068 Pa (25 °C, OECD 104).
Density and/or relative density	ca. 0.95 g/cm ³ (20 °C, OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- ES: 906-125-5	
Physical state	Liquid.
Colour	Colourless.
Odour	Not determined.
Melting point/freezing point	-15 °C (geraniol, literature).
Boiling point or initial boiling point and boiling range	229 - 230 °C (geraniol, literature).

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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	108 °C (geraniol, EU method A.9).
Auto-ignition temperature	250 °C (geraniol, EU method A.15).
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	100 mg/l (geraniol, 25 °C, literature).
Partition coefficient n-octanol/water (log value)	log Pow = 2.7 (20 °C, OECD 117).
Vapour pressure	Not determined.
Density and/or relative density	$D_4^{20} = 0.89$ (geraniol, 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

Data for the mixture are not available.

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

Flammable solids

It is not solid.

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KRYSTAL Oil freshener green

Self-reactive substances and mixtures

Data for the mixture are not available.

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

Pyrophoric liquids

Data for the mixture are not available.

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

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the mixture are not available.

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

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

Data for the mixture are not available.

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

Oxidising liquids

Data for the mixture are not available.

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

Oxidizing solids

It is not solid.

Organic peroxides

Data for the mixture are not available.

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

Corrosive to metals

Data for the mixture are not available.

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

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.

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.

Flammable gases

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It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

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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<i>Desensitised explosives</i>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	
Citronellol	CAS: 106-22-9
<i>Explosives</i>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	
<i>Flammable gases</i>	
It is not gas.	
<i>Aerosols</i>	
It is not aerosol.	
<i>Oxidising gases</i>	
It is not gas.	
<i>Gases under pressure</i>	
It is not gas.	
<i>Flammable liquids</i>	
The substance is not classified as flammable liquid according to the value of the flash point and boiling point.	
<i>Flammable solids</i>	
It is not solid.	
<i>Self-reactive substances and mixtures</i>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive or self-reactive properties.	
<i>Pyrophoric liquids</i>	
Data for the substance are not available. The substance is stable in air, there is no spontaneous ignition.	
<i>Pyrophoric solids</i>	
It is not solid.	
<i>Self-heating substances and mixtures</i>	
Data for the substance are not available. The substance is not classified as self-heating.	
<i>Substances and mixtures, which emit flammable gases in contact with water</i>	
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.	
<i>Oxidising liquids</i>	
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.	
<i>Oxidizing solids</i>	

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KRYSTAL Oil freshener green

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.

(E)-2-Benzylidenoctanal

CAS: 165184-98-5

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.

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

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KRYSTAL Oil freshener green

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.

Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- ES: 906-125-5

Explosives

Data for the substance are not available.

The substance contains chemical groups associated with explosive properties, but the calculated oxygen balance is less than -200.

Calculated oxygen balance = -290.

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

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KRYSTAL Oil freshener green

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.

Desensitised explosives

Data for the substance are not available.

The substance is not classified as explosive.

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, 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.

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KRYSTAL Oil freshener green

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.

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

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, chlorine 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_{mixture} > 9 985 mg/kg.

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/l (estimate, low concentration of substance classified as toxic inhalation route of exposure).

Skin corrosion/irritation

Data for the mixture are not available.

The mixture is not classified as skin irritant based on the general/specific concentration limits of substance(s).

Serious eye damage/irritation

Data for the mixture are not available.

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

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KRYSTAL Oil freshener green

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 Citronellol, (R)-p-Mentha-1,8-diene, α -Hexylcinnamaldehyde, Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-, Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Germ cell mutagenicity

Data for the mixture are not available.

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

Carcinogenicity

Data for the mixture are not available.

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

Reproductive toxicity

Data for the mixture are not available.

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

STOT – single exposure

Data for the mixture are not available.

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

STOT – repeated exposure

Data for the mixture are not available.

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

Aspiration hazard

Data for the mixture are not available.

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

Other information

See section 2 and 4.

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).

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

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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.

Alcohols, C12-14, (even numbered) ethoxylated

CAS: 68439-50-9

Acute toxicity

Oral The substance is classified in category 4.
LD₅₀ = 300 - 2 000 mg/kg (rat).
ATE = 500 mg/kg (for calculation by additive formula).

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

Data for the substance are not available.

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

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KRYSTAL Oil freshener green

Respiratory or skin sensitisation	
Data for the substance are not available.	
Germ cell mutagenicity	
Data for the substance are not available.	
Carcinogenicity	
Data for the substance are not available.	
Reproductive toxicity	
Data for the substance are not available.	
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 ² /s or less at 40 °C.	
Citronellol	CAS: 106-22-9
Acute toxicity	
Oral	Based on available data, the classification criteria are not met. LD ₅₀ = 3 450 mg/kg (rat, literature).
Dermal	Based on available data, the classification criteria are not met. LD ₅₀ = 2 650 mg/kg (rat, literature).
Inhalation	Data for the substance are not available.
Skin corrosion/irritation	
The substance is classified as skin irritant. Primary dermal irritation index PDII = 3.67 - 4.22 (max. 8, not fully reversible after 7 days) (rabbit, 72 hrs., OECD 404).	
Serious eye damage/irritation	
The substance is classified as eye irritant. Total irritation score = 30.5 (max. 39, not fully reversible after 8 days), mean score of corneal opacity = 1 (not fully reversible after 8 days), iritis = 0.28 (fully reversible after 8 days), conjunctival erythema = 1.72 (not fully reversible after 8 days), conjunctival edema = 1.44 (not fully reversible after 8 days) (rabbit, 72 hours, OECD 405).	
Respiratory or skin sensitisation	
The substance is classified as skin sensitising in category 1B (mouse, OECD 429).	
Germ cell mutagenicity	
Based on available data, the classification criteria are not met. Negative (OECD 476).	
Carcinogenicity	

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KRYSTAL Oil freshener green

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

NOAEL > 2 000 mg/kg/day (read-across (71% geranyl acetate and 29% citronellyl acetate), carcinogenicity, rat, oral, two-generation test).

NOAEL = 1 000 mg/kg/day (read-across (71% geranyl acetate and 29% citronellyl acetate), systemic toxicity, rat, oral, two-generation test).

Reproductive toxicity

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

NOAEL = 300 mg/kg/day (reproductive performance and fertility, dermal, rat, generation P0, OECD 421).

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.

(E)-2-Benzylidenoctanal

CAS: 165184-98-5

Acute toxicity

Oral

Based on available data, the classification criteria are not met.
LD₅₀ = ca. 3 100 mg/kg (rat, male, OECD 401).

Dermal

Based on available data, the classification criteria are not met.
LD₅₀ > 3 000 mg/kg (rabbit, female, OECD 402).

Inhalation

Based on available data, the classification criteria are not met.
LC₅₀ > 5 mg/l (vapour, rat, 4 hrs., no death is observed, OECD 403).

Skin corrosion/irritation

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

Mean erythema score = 2 and oedema = 1.56 (fully reversible after 11 days, rabbit, 72 hrs., EU method B.4).

Serious eye damage/irritation

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

Mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 0.33 (fully reversible after 2 days), conjunctival oedema = 0 (rabbit, 72 hrs., EU method B.5).

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 476).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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KRYSTAL Oil freshener green

Based on available data, the classification criteria are not met.
NOAEL \geq 100 mg/kg/day (rat, oral, generation P0, OECD 421).
NOAEL \geq 100 mg/kg/day (rat, oral, F1 generation, 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 \geq 100 mg/kg/day (rat, oral, OECD 421).
NOAEL = 125 mg/kg/day (systemic effect, rat, female, dermal, 90 d., OECD 411).

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.

Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- ES: 906-125-5

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ = 3 600 mg/kg (geraniol, rat, literature).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 5 000 mg/kg (geraniol, rabbit, literature).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.
Mean erythema scores = 2, 2.08, 1.92 (not fully reversible after 7 days) and edema = 1.67, 1.25, 1 (not fully reversible after 7 days), primary dermal irritation index PDII = 3.67, 3, 33, 2.92 (max. 8, not fully reversible after 7 days) (geraniol, rabbit, 72 hours, OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes (geraniol, rabbit, 72 hrs., OECD 405).

Respiratory or skin sensitisation

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

Germ cell mutagenicity

Based on available data, the classification criteria are not met.
Negative (geraniol, bacterial reverse mutation assay, OECD 476).
Negative (nerol, OECD 471).

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 421).
NOAEL = 1 000 mg/kg/day (fertility, rat, orally, generation P0, OECD 421).
NOAEL = 100 mg/kg/day (rat, oral, generation F1, OECD 421).

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KRYSTAL Oil freshener green

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL > 550 mg/kg/day (geraniol, rat, oral, literature).

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

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

$\Sigma < 0.75$

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
Σ	< 0.45	< 4.8	< 53	non relevant

Propan-2-ol

CAS: 67-63-0

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

Fish

LC₅₀, 96 hrs., Pimephales promelas: 9 640 - 10 000 mg/l (mortality, OECD 203)

Crustaceans

EC₅₀, 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

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KRYSTAL Oil freshener green

Alcohols, C12-14, (even numbered) ethoxylated	CAS: 68439-50-9
The substance is classified as Aquatic Chronic 3; H412.	
Fish	
Data for the substance are not available.	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: > 1 mg/l.	
Algae	
EC ₅₀ , 72 hrs., Desmodesmus subspicatus: > 1 mg/l.	
Citronellol	CAS: 106-22-9
The substance is not classified as hazardous for the aquatic environment.	
Fish	
LC ₅₀ , 96 hrs., Leuciscus idus: 14.66 mg/l (mortality). NOEC, 96 hrs., Leuciscus idus: 4.6 mg/l (mortality).	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 17.48 mg/l (mobility). NOEC, 48 hrs., Daphnia Magna: 3.1 mg/l (mobility).	
Algae	
EC ₅₀ , 72 hrs., Scenedesmus subspicatus: 2.4 mg/l (growth rate, OECD 201). EC ₂₀ , 72 hrs., Scenedesmus subspicatus: 1.1 mg/l (growth rate, OECD 201).	
(E)-2-Benzylidenoctanal	CAS: 165184-98-5
The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 2; H411.	
Fish	
LC ₅₀ , 96 hrs., Pimephales promelas: ca. 1.7 mg/l (mortality, OECD 203). NOEC, 96 hrs., Pimephales promelas: ca. 0.93 mg/l (mortality, OECD 203).	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 0.36 - 0.59 mg/l (OECD 202). NOEC, 21 d., Daphnia Magna: 63 µg/l (growth and reproduction, OECD 211).	
Algae	
EC ₅₀ , 72 hrs., Desmodesmus subspicatus: > 0.065 mg/l (growth rate, OECD 201). NOEC, 72 hrs., Desmodesmus subspicatus: 0.065 mg/l (biomass, OECD 201).	
Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-	ES: 906-125-5
The substance is not classified as hazardous for the aquatic environment.	
Fish	
LC ₅₀ , 96 hrs., Danio rerio: ca. 22 mg/l (geraniol, mortality, OECD 203). NOEC, 96 hrs., Danio rerio: 10 mg/l (geraniol, mortality, OECD 203).	
Crustaceans	

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KRYSTAL Oil freshener green

EC₅₀, 48 hrs., Daphnia Magna: 10.8 mg/l (mobility, OECD 202).

NOEC, 48 hrs., Daphnia Magna: 4 mg/l (mobility, OECD 202).

Algae

EC₅₀, 72 hrs., Desmodesmus subspicatus: 13.1 mg/l (growth rate, OECD 201).

EC₁₀, 72 hrs., Desmodesmus subspicatus: 3.77 mg/l (growth rate, OECD 201).

NOEC, 72 hrs., Desmodesmus subspicatus: 1 mg/l (growth rate, OECD 201).

12.2. Persistence and degradability

Mixture

Data for the mixture are not available.

Propan-2-ol

CAS: 67-63-0

Readily biodegradable: 53 % after 5 days (CO₂ evolution, OECD 301 B).

Alcohols, C12-14, (even numbered) ethoxylated

CAS: 68439-50-9

Readily biodegradable: > 60 % (OECD 301 B).

Citronellol

CAS: 106-22-9

Readily biodegradable: 80 - 90 % after 28 days (O₂ consumption, OECD 301 F).

(E)-2-Benzylidenoctanal

CAS: 165184-98-5

Readily biodegradable: ca. 97 % after 28 days (O₂ consumption, OECD 301 F).

Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-

ES: 906-125-5

Readily biodegradable: 90 - 100 % after 3 days (removal of dissolved organic carbon, OECD 301 A).

12.3. Bioaccumulative potential

Mixture

Data for the mixture are not available.

Propan-2-ol

CAS: 67-63-0

log Pow = 0.05 (25 °C).

Citronellol

CAS: 106-22-9

BCF = 82.59 l/kg.

log Pow = 3.41 (25 °C, EU method A.8).

(E)-2-Benzylidenoctanal

CAS: 165184-98-5

log Pow = ca. 5.3 (24 °C, OECD 117).

Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-

ES: 906-125-5

log Pow = 2.7 (20 °C, OECD 117).

12.4. Mobility in soil

Mixture

Data for the mixture are not available.

Propan-2-ol

CAS: 67-63-0

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Data for the substance are not available.

Citronellol	CAS: 106-22-9
Koc = 70.79 (calculation).	
(E)-2-Benzylidenoctanal	CAS: 165184-98-5
log Koc = 4.2 (25 °C, OECD 121).	
Reaction mass of 2,6-Octadien-1-ol, 3,7-dimethyl-, (E) and 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-	ES: 906-125-5
log Koc = 1.85 (geraniol, 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

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

Physical/chemical properties that may affect waste treatment options

Flammability.

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

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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	5I
Excepted quantities	Maximum net quantity per inner packaging: 30 ml. Maximum net quantity per outer packaging: 1 000 ml.
Transport category	3

Additional data for IMDG

Emergency Schedules (EmS)	F-E, S-D.
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SECTION 15: Regulatory information

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

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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

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

Key or legend to abbreviations and acronyms

Acute Tox. 2	Acute toxicity, cat. 2
Acute Tox. 3	Acute toxicity, cat. 3
Acute Tox. 4	Acute toxicity, cat. 4
Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 1	Chronic aquatic hazard, cat. 1
Aquatic Chronic 2	Chronic aquatic hazard, cat. 2
Aquatic Chronic 3	Chronic aquatic hazard, cat. 3
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 2	Flammable liquid, cat. 2
Flam. Liq. 3	Flammable liquid, cat. 3
Skin Corr. 1C	Skin corrosion, cat. 1C
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1A	Skin sensitization, cat. 1A
Skin Sens. 1B	Skin sensitization, cat. 1B
Skin Sens. 1	Skin sensitization, cat. 1
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
M	Multiplying factor
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC, 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.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Training advice

According to SDS.

Other information

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

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

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

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