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# ROTH

#### Grapefruit oil, all-natural

article number: **6718**Version: **4.0 en**date of compilation: 30.04.2021
Revision: 04.03.2024

Replaces version of: 17.03.2023

Version: (3)

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

#### 1.1 Product identifier

Identification of the substance Grapefruit oil, all-natural

Article number 6718

Registration number (REACH) 01-2120119763-56-xxxx

EC number 616-973-5 CAS number 8016-20-4

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes (household). Food, drink and animal feeding-

stuffs.

#### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment

sheet:

e-mail (competent person): sicherheit@carlroth.de

1.4 Emergency telephone number

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	3	Flam. Liq. 3	H226
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.45	Skin sensitisation	1	Skin Sens. 1	H317
3.10	Aspiration hazard	1	Asp. Tox. 1	H304
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

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For full text of abbreviations: see SECTION 16

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

The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

#### **Pictograms**

GHS02, GHS07, GHS08, GHS09









#### **Hazard statements**

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction

H411 Toxic to aquatic life with long lasting effects

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking

#### **Precautionary statements - response**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor

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

**Hazardous ingredients for labelling:** D-(+)-Limonene, DL-α-Pinene, Myrcene, β-Caryo-

phyllene, Linalool, Citral

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)









H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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

contains: D-(+)-Limonene, DL-α-Pinene, Myrcene, β-Caryophyllene, Linalool, Citral

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#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq$  0,1%.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

"UVCB substance" (substance of unknown or variable composition).

Name of substance Grapefruit oil

REACH Reg. No 01-2120119763-56-xxxx

CAS No 8016-20-4 EC No 616-973-5

#### Impurities/additives/constituents:

Name of substance	Identifier	Wt%
D-(+)-Limonene	CAS No 5989-27-5	24 -> 90
	EC No 227-813-5	
	Index No 601-096-00-2	
Myrcene	CAS No 123-35-3	1-<3
	EC No 204-622-5	
Citral	CAS No 5392-40-5	<1
	EC No 226-394-6	
	Index No 605-019-00-3	
Linalool	CAS No 78-70-6	<1
	EC No 201-134-4	
	Index No 603-235-00-2	
DL-α-Pinene	CAS No 80-56-8	<1
	EC No 201-291-9	
β-Caryophyllene	CAS No 87-44-5	< 1
	EC No 201-746-1	

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#### Remarks

For full text of abbreviations: see SECTION 16

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

In case of skin reactions, consult a physician. In case of skin irritation, consult a physician.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following ingestion**

Call a physician immediately. Observe aspiration hazard if vomiting occurs.

#### 4.2 Most important symptoms and effects, both acute and delayed

Aspiration hazard, Vomiting, Irritation, Allergic reactions

## 4.3 Indication of any immediate medical attention and special treatment needed

none

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapourair mixture. Solvent vapours are heavier than air and may spread along floors.

#### **Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

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#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation.

#### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

#### Measures to protect the environment

Avoid release to the environment.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

#### **Incompatible substances or mixtures**

Observe hints for combined storage.

#### Consideration of other advice:

Ground/bond container and receiving equipment.

#### **Ventilation requirements**

Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

#### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### **National limit values**

## **Occupational exposure limit values (Workplace Exposure Limits)**

This information is not available.

#### **Human health values**

Relevant DNELs and other threshold levels							
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time			
DNEL	31,1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects			
DNEL	8,89 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects			

## Relevant DNELs of components

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
D-(+)-Limonene	5989-27-5	DNEL	66,7 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
D-(+)-Limonene	5989-27-5	DNEL	9,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
DL-α-Pinene	80-56-8	DNEL	3,8 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects
DL-α-Pinene	80-56-8	DNEL	0,542 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	2,8 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16,5 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects

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Relevant DNELs of components							
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time	
Linalool	78-70-6	DNEL	2,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects	
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects	
Citral	5392-40-5	DNEL	9 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects	
Citral	5392-40-5	DNEL	1,7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects	
Citral	5392-40-5	DNEL	140 μg/ cm²	human, dermal	worker (industry)	chronic - local ef- fects	

#### **Environmental values**

#### **Relevant PNECs and other threshold levels**

End- point	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	5,4 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
PNEC	0,54 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
PNEC	2,1 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PNEC	1,3 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	0,13 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
PNEC	0,29 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)

## **Relevant PNECs of components**

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
D-(+)-Limonene	5989-27-5	PNEC	14 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	1,4 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	1,8 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	3,85 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	0,385 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	0,763 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	0,606 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)

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## **Relevant PNECs of components**

Relevant PNECS of components							
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time	
DL-α-Pinene	80-56-8	PNEC	0,061 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)	
DL-α-Pinene	80-56-8	PNEC	0,2 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)	
DL-α-Pinene	80-56-8	PNEC	157 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)	
DL-α-Pinene	80-56-8	PNEC	15,7 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)	
DL-α-Pinene	80-56-8	PNEC	31,7 <sup>µg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)	
Linalool	78-70-6	PNEC	0,2 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)	
Linalool	78-70-6	PNEC	0,02 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)	
Linalool	78-70-6	PNEC	10 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)	
Linalool	78-70-6	PNEC	2,22 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)	
Linalool	78-70-6	PNEC	0,222 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)	
Linalool	78-70-6	PNEC	0,327 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)	
Citral	5392-40-5	PNEC	0,007 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)	
Citral	5392-40-5	PNEC	0,001 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)	
Citral	5392-40-5	PNEC	1,6 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)	
Citral	5392-40-5	PNEC	0,125 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)	
Citral	5392-40-5	PNEC	0,013 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)	
Citral	5392-40-5	PNEC	0,021 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)	

## 8.2 Exposure controls

Individual protection measures (personal protective equipment)
Eye/face protection



Use safety goggle with side protection.

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#### Skin protection



#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

Butyl caoutchouc (butyl rubber)

#### material thickness

>0,3 mm 0,7mm

#### · breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state liquid

Colour yellowish brown
Odour characteristic

Melting point/freezing point <-25 °C at 1.013 hPa (ECHA)

Boiling point or initial boiling point and boiling 160 °C at 1.019 hPa (ECHA)

range

ange

Flammability flammable liquid in accordance with GHS criteria

Lower and upper explosion limit 39 g/m³ (LEL) - 345 g/m³ (UEL) / 0,7 vol% (LEL) - 9,9 vol% (UEL)

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Flash point 54,8 °C (ECHA)

Auto-ignition temperature 235 °C at 1.016 hPa (ECHA) (auto-ignition temper-

ature (liquids and gases))

Decomposition temperature not relevant pH (value) not determined Kinematic viscosity not determined

Solubility(ies)

 $1,1^{g}/_{l}$  at 25 °C 1.101  $^{mg}/_{l}$  at 25 °C (ECHA) (ECHA) Water solubility

Partition coefficient

Partition coefficient n-octanol/water (log value):  $\geq$ 2,78 –  $\leq$ 6,3 (pH value: 7, 25 °C) (ECHA)

195,4 Pa at 25 °C Vapour pressure

Density and/or relative density

 $0.853 \, {}^{9}/_{cm^{3}}$  at 20 °C (ECHA) Density

Relative vapour density Information on this property is not available.

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

There is no additional information.

Other safety characteristics:

Refractive index 1,476

Temperature class (EU, acc. to ATEX)

Maximum permissible surface temperature on the equipment: 200°C

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

It's a reactive substance. Risk of ignition.

#### If heated

Risk of ignition. Vapours may form explosive mixtures with air.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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#### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

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

Classification according to GHS (1272/2008/EC, CLP)

#### **Acute toxicity**

Shall not be classified as acutely toxic.

#### **Acute toxicity**

Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA
dermal	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rabbit		ECHA

#### **Acute toxicity estimate (ATE) of components**

Name of substance	CAS No	Exposure route	ATE
DL-α-Pinene	80-56-8	oral	1.000 <sup>mg</sup> / <sub>kg</sub>

#### **Acute toxicity of components**

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
D-(+)-Limonene	5989-27-5	oral	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat
Myrcene	123-35-3	oral	LD50	>3.380 <sup>mg</sup> / <sub>kg</sub>	mouse
Myrcene	123-35-3	dermal	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rabbit
DL-α-Pinene	80-56-8	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat
DL-α-Pinene	80-56-8	oral	LD50	3.700 <sup>mg</sup> / <sub>kg</sub>	rat
β-Caryophyllene	87-44-5	oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	mouse
Linalool	78-70-6	oral	LD50	2.790 <sup>mg</sup> / <sub>kg</sub>	rat
Linalool	78-70-6	dermal	LD50	5.610 <sup>mg</sup> / <sub>kg</sub>	rabbit
Citral	5392-40-5	oral	LD50	6.800 <sup>mg</sup> / <sub>kg</sub>	rat
Citral	5392-40-5	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat

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#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

aspiration hazard

#### • If in eyes

Data are not available.

#### • If inhaled

Data are not available.

#### • If on skin

causes skin irritation, May produce an allergic reaction, pruritis, localised redness

#### Other information

none

#### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq$  0,1%.

#### 11.3 Information on other hazards

There is no additional information.

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## **SECTION 12: Ecological information**

## 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

## Aquatic toxicity (acute)

Endpoint	Value	Species	Source	Exposure time
LL50	5,65 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	96 h
EL50	1,4 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	24 h

## Aquatic toxicity (acute) of components

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
D-(+)-Limonene	5989-27-5	LC50	0,46 <sup>mg</sup> / <sub>l</sub>	fish	96 h
D-(+)-Limonene	5989-27-5	EC50	0,307 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
D-(+)-Limonene	5989-27-5	ErC50	0,32 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Myrcene	123-35-3	EC50	1,47 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Myrcene	123-35-3	EC50	0,31 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Myrcene	123-35-3	ErC50	0,342 <sup>mg</sup> / <sub>l</sub>	algae	72 h
DL-α-Pinene	80-56-8	LC50	0,303 <sup>mg</sup> / <sub>l</sub>	fish	96 h
DL-α-Pinene	80-56-8	EC50	0,475 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
β-Caryophyllene	87-44-5	EC50	>0,17 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
β-Caryophyllene	87-44-5	ErC50	>0,033 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Linalool	78-70-6	LC50	27,8 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Linalool	78-70-6	EC50	59 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156,7 <sup>mg</sup> / <sub>l</sub>	algae	96 h
Citral	5392-40-5	LC50	6,78 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Citral	5392-40-5	EC50	6,8 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Citral	5392-40-5	ErC50	103,8 <sup>mg</sup> / <sub>l</sub>	algae	72 h

#### Aquatic toxicity (chronic) of components

-					
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
D-(+)-Limonene	5989-27-5	EC50	<0,67 <sup>mg</sup> / <sub>l</sub>	fish	8 d
D-(+)-Limonene	5989-27-5	EC50	188 <sup>µg</sup> / <sub>I</sub>	aquatic invertebrates	21 d
Linalool	78-70-6	EC50	>100 <sup>mg</sup> / <sub>l</sub>	microorganisms	30 min
Citral	5392-40-5	EC50	160 <sup>mg</sup> / <sub>l</sub>	microorganisms	30 min

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### 12.2 Persistence and degradability

1,011 <sup>mg</sup>/<sub>mg</sub>

### **Biodegradation**

The substance is readily biodegradable.

Degradability	of components
---------------	---------------

Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
D-(+)-Limonene	5989-27-5	carbon dioxide generation	58,8 %	14 d		ECHA
D-(+)-Limonene	5989-27-5	oxygen deple- tion	80 %	28 d		ECHA
Myrcene	123-35-3	oxygen deple- tion	76 %	28 d		ECHA
DL-α-Pinene	80-56-8	oxygen deple- tion	68 %	28 d		ECHA
β-Caryophyl- lene	87-44-5	oxygen deple- tion	10 %	28 d		ECHA
Linalool	78-70-6	oxygen deple- tion	40,9 %	5 d		ECHA
Citral	5392-40-5	biotic/abiotic	>90 %	28 d		
Citral	5392-40-5	oxygen deple- tion	>90 %	28 d		ECHA

#### 12.3 Bioaccumulative potential

The substance fulfils the very bioaccumulative criterion.

octanol/water (log KOW)	≥2,78 – ≤6,3 (pH value: 7, 25 °C) (ECHA)
-------------------------	--

#### **Bioaccumulative potential of components**

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
D-(+)-Limonene	5989-27-5		4,38 (pH value: 7,2, 37 °C)	
Myrcene	123-35-3		4,82 (pH value: ~6,5, 30 °C)	
DL-α-Pinene	80-56-8		4,83	
β-Caryophyllene	87-44-5		6,23 (pH value: 7, 25 °C)	
Linalool	78-70-6		2,9 (pH value: 7, 20 °C)	
Citral	5392-40-5	89,72	2,76 (25 °C)	

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

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#### 12.7 Other adverse effects

Data are not available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### Properties of waste which render it hazardous

HP 3 flammable

HP 5 specific target organ toxicity (STOT)/aspiration toxicity

HP 13 sensitising HP 14 ecotoxic

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADR	UN 1197
IMDG-Code	UN 1197
ICAO-TI	UN 1197

#### 14.2 UN proper shipping name

ADR	EXTRACTS, LIQUID
IMDG-Code	EXTRACTS, LIQUID
ICAO-TI	Extracts liquid

#### 14.3 Transport hazard class(es)

ADR	3
IMDG-Code	3
ICAO-TI	3

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14.4 Packing group

ADR III

IMDG-Code III

ICAO-TI III

**14.5 Environmental hazards** hazardous to the aquatic environment

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### 8 Information for each of the UN Model Regulations

## Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name EXTRACTS, LIQUID

Particulars in the transport document UN1197, EXTRACTS, LIQUID, 3, III, (D/E), environ-

mentally hazardous

Classification code F1

Danger label(s) 3, "Fish and tree"





Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 601

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

Transport category (TC) 3

Tunnel restriction code (TRC) D/E

Hazard identification No 30

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name EXTRACTS, LIQUID

Particulars in the shipper's declaration UN1197, EXTRACTS, LIQUID, (D-(+)-Limonene), 3,

III, 54,8°C c.c., MARÍNE POLLUTANT

Marine pollutant yes (hazardous to the aquatic environment)

Danger label(s) 3, "Fish and tree"





Special provisions (SP) 223, 955

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

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**EmS** F-E, S-D

Stowage category

## International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Extracts, liquid

Particulars in the shipper's declaration UN1197, Extracts, liquid, 3, III

**Environmental hazards** yes (hazardous to the aquatic environment)

Danger label(s) 3



Special provisions (SP) **A3** 

Excepted quantities (EQ) E1

Limited quantities (LQ) 10 L

## **SECTION 15: Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

#### Dangerous substances with restrictions (REACH, Annex XVII)

Name of substance	Name acc. to inventory	CAS No	Restriction	No
Grapefruit oil	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3
Myrcene	flammable / pyrophoric		R40	40
Myrcene	substances in tattoo inks and perman- ent make-up		R75	75
Citral	substances in tattoo inks and perman- ent make-up		R75	75
D-(+)-Limonene	flammable / pyrophoric		R40	40
D-(+)-Limonene	substances in tattoo inks and perman- ent make-up		R75	75
Linalool	substances in tattoo inks and perman- ent make-up		R75	75
DL-α-Pinene	flammable / pyrophoric		R40	40
DL-α-Pinene	substances in tattoo inks and permanent make-up		R75	75
β-Caryophyllene	substances in tattoo inks and perman- ent make-up		R75	75

#### Legend

- tricks and jokes,

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<sup>1.</sup> Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

<sup>-</sup> games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market.

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#### Legend

R40

- 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they

- can be used as fuel in decorative oil lamps for supply to the general public, and
   present an aspiration hazard and are labelled with H304.

  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation
- (CEN).
  5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following require-
- ments are met:

  (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil or even sucking the wick of lamps may lead to life-threatening lung damage";

  (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';

  (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

  1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decreative purposes such as the following:

- for supply to the general public for entertainment and decorative purposes such as the following:
   metallic glitter intended mainly for decoration,
   artificial snow and frost,

  - 'whoopee' cushions,
  - silly string aerosols,
  - imitation excrement,
  - horns for parties,
    decorative flakes and foams,
    artificial cobwebs,

  - stink bombs.
  - 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.
  - 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).

    4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to
  - the requirements indicated.

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#### Legend

**R75** 

1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:

(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category

1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight; (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by

(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;

(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:

(i) 0,1 % by weight, if the substance is used solely as a pH regulator

(ií) 0,01 % by weight, in all other cases;

(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the

mixture in a concentration equal to or greater than 0,00005 % by weight;

(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:

(ii) "Rinse-off products";
(ii) "Not to be used in products applied on mucous membranes";
(iii) "Not to be used in eye products";

(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column; (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concen-

(n) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.

2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.

3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.

as also falls within one of more of points (a) to (g) of paragraph 1, the concentration limit faid down in point (ii) of paragraph 1 shall apply to that substance.

4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).

5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that now or revised classification in fifty the date referred to in paragraph 1 or as the case may be paragraph. plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.

6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the

amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.

7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:

(a) the statement "Mixture for use in tattoos or permanent make-up";

(a) the statement "Mixture for use in tattoos or permanent make-up";
(b) a reference number to uniquely identify the batch;
(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;

tion limit specified in Appendix 13

(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.

Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for

tattooing purposes.

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9. This entry does not apply to substances that are gases at temperature of 20  $^{\circ}$ C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50  $^{\circ}$ C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

#### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not listed.

#### **Seveso Directive**

2012/	2012/18/EU (Seveso III)					
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes			
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200 500	57)			

#### Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

#### **Deco-Paint Directive**

VOC content	30 %
VOC content	255,9 <sup>g</sup> / <sub>l</sub>

#### **Industrial Emissions Directive (IED)**

VOC content	29 %
VOC content	247,4 <sup>g</sup> / <sub>I</sub>

## Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

## Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

#### **Water Framework Directive (WFD)**

#### List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Myrcene	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	

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#### List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Citral	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	
Linalool	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	

#### Legend

a) Indicative list of the main pollutants

#### Regulation on the marketing and use of explosives precursors

not listed

## **Regulation on drug precursors**

not listed

#### Regulation on substances that deplete the ozone layer (ODS)

not listed

#### Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

#### Regulation on persistent organic pollutants (POP)

not listed

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### **National inventories**

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed

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Country	Inventory	Status
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
VN	NCI	all ingredients are listed

Legend

AIIC CICR CSCL-ENCS DSL ECSI IECSC

Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS)

Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances

INSQ

Inventory of Existing and New Chemical Substances (ISHA-ENCS)
Korea Existing Chemicals Inventory ISHA-ENCS

NCI Korea Existing Chemicals Inventory
NCI National Chemical Inventory
NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory
TSCA Toxic Substance Control Act

#### 15.2 Chemical safety assessment

According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.

## **SECTION 16: Other information**

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes
15.2	Chemical Safety Assessment: No Chemical Safety Assessment has been car- ried out for this substance.	Chemical safety assessment: According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.	yes

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#### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerr ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causin 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an ider fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50 of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	= EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United N tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during specified time interval
LEL	Lower explosion limit (LEL)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water

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Abbr.	Descriptions of used abbreviations
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SVHC	Substance of Very High Concern
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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