according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Mint oil double rectified

article number: **6732**Version: **2.0 en**date of compilation: 20.07.2022

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Version: (1)

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

1.1 Product identifier

Identification of the substance Mint oil double rectified

Article number 6732

Registration number (REACH) 01-2119973492-30-xxxx

EC number 290-058-5 CAS number 90063-97-1

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 private purposes (household).

Food, drink and animal feedingstuffs.

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
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.45	Skin sensitisation	1	Skin Sens. 1	H317
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16

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The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word Warning

Pictograms

GHS07, GHS09





Hazard statements

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P273 Avoid release to the environment P280 Wear protective gloves/eye protection

Precautionary statements - response

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P337+P313 If eye irritation persists: Get medical advice/attention

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Symbol(s)





H317 May cause an allergic skin reaction.

P280 Wear protective gloves/eye protection.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3 Other hazards

This material is combustible, but will not ignite readily.

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%.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Mint oil

REACH Reg. No 01-2119973492-30-xxxx

CAS No 90063-97-1 EC No 290-058-5

Impurities/additives/constituents:

Name of substance	Identifier	Wt%
(±) - Menthol	CAS No 89-78-1	50 - < 75
	EC No 201-939-0	
Menthone	CAS No 10458-14-7	5 – < 10
	EC No 233-944-9	
L-(-)-Limonene	CAS No 5989-54-8	1-<5
	EC No 227-815-6	
	Index No 601-029-00-7	
(-)-Carvone	CAS No 6485-40-1	1-<5
	EC No 229-352-5	
	Index No 606-148-00-8	
Acetic acid methyl ester	CAS No 79-20-9	1-<5
	EC No 201-185-2	
	Index No 607-021-00-X	
Isopulegol	CAS No 89-79-2	1-<5
	EC No 201-940-6	
DL-α-Pinene	CAS No 80-56-8	<1
	EC No 201-291-9	

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Substance, Specific Conc. Limits, M-factors, ATE						
Specific Conc. Limits	M-Factors	ATE	Exposure route			
-	-	500 ^{mg} / _{kg}	oral			

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

Rinse skin with water/shower. In case of skin reactions, consult a physician.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Vomiting, Irritation, Allergic reactions, Aspiration hazard

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, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible.

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Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂), May produce toxic fumes of carbon monoxide if burning.

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.

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.

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.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

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Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

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.

Relevant DNELs of components

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
(±) - Menthol	89-78-1	DNEL	66,28 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects
(±) - Menthol	89-78-1	DNEL	1 mg/m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects
(±) - Menthol	89-78-1	DNEL	1 mg/m³	human, inhalat- ory	worker (industry)	acute - local ef- fects
(±) - Menthol	89-78-1	DNEL	9,4 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
(±) - Menthol	89-78-1	DNEL	46,4 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
(±) - Menthol	89-78-1	DNEL	13,15 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Acetic acid methyl ester	79-20-9	DNEL	300 mg/m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Acetic acid methyl ester	79-20-9	DNEL	3.777 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects
Acetic acid methyl ester	79-20-9	DNEL	620 mg/m ³	human, inhalat- ory	worker (industry)	chronic - local ef- fects
Acetic acid methyl ester	79-20-9	DNEL	43 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
L-(-)-Limonene	5989-54-8	DNEL	33,3 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
L-(-)-Limonene	5989-54-8	DNEL	222 μg/ cm²	human, dermal	worker (industry)	acute - local ef- fects
DL-α-Pinene	80-56-8	DNEL	3,8 mg/m ³	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

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Relevant PNECs of components

Relevant PNECs	or compone	ents				
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
(±) - Menthol	89-78-1	PNEC	0,016 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
(±) - Menthol	89-78-1	PNEC	0,002 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
(±) - Menthol	89-78-1	PNEC	3,06 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
(±) - Menthol	89-78-1	PNEC	0,201 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
(±) - Menthol	89-78-1	PNEC	0,02 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
(±) - Menthol	89-78-1	PNEC	0,031 ^{mg} / kg	terrestrial organ- isms	soil	short-term (single instance)
Acetic acid methyl ester	79-20-9	PNEC	0,12 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Acetic acid methyl ester	79-20-9	PNEC	0,012 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Acetic acid methyl ester	79-20-9	PNEC	600 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Acetic acid methyl ester	79-20-9	PNEC	0,128 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Acetic acid methyl ester	79-20-9	PNEC	0,013 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (single instance)
Acetic acid methyl ester	79-20-9	PNEC	0,042 ^{mg} / kg	terrestrial organ- isms	soil	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	5,4 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	0,54 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	0,2 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	1,322 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	0,132 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	0,262 ^{mg} /	terrestrial organ- isms	soil	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	0,606 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	0,061 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	0,2 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	157 ^{µg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)

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80-56-8



short-term (single

instance)

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Relevant PNECs of components Name of sub-**CAS No Threshol** End-**Organism Environmental Exposure time** point d level stance compartment $15,7 \, ^{\mu g}/_{kg}$ DL-α-Pinene **PNEC** marine sediment 80-56-8 aquatic organshort-term (single isms instance)

terrestrial organ-

isms

soil

 $31,7 \, ^{\mu g}/_{kg}$

8.2 Exposure controls

Individual protection measures (personal protective equipment)

PNEC

Eye/face protection

DL-α-Pinene





Use safety goggle with side protection.

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

NBR (Nitrile rubber)

material thickness

>0,11 mm

· 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).

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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 clear - colourless - light yellow

Odour characteristic

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

Boiling point or initial boiling point and boiling 102 °C at 1 bar (ECHA)

range

Flammability this material is combustible, but will not ignite

readily

Lower and upper explosion limit not determined

Flash point 68,7 °C at 1 bar (ECHA)

Auto-ignition temperature 285 °C at 1.014 hPa (ECHA)

Decomposition temperature not relevant

pH (value) not determined

Kinematic viscosity 5,54 mm²/s at 20 °C

Dynamic viscosity 4,994 cP at 20 °C

Solubility(ies)

Water solubility $\sim 0.9432 \, ^{\rm g}/_{\rm l}$ at 20 °C (ECHA)

Partition coefficient

Partition coefficient n-octanol/water (log value): 2,73 - 6,99 (pH value: ~7, 25 °C) (ECHA)

Vapour pressure 50,8 Pa at 25 °C

Density and/or relative density

Density $\sim 0.9015 \, {}^{9}/_{\text{cm}^3}$ at 20 °C (ECHA)

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 hazard classes acc. to GHS

classes: (physical hazards): not relevant

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Other safety characteristics:

Refractive index 1,46

Temperature class (EU, acc. to ATEX)

Maximum permissible surface temperature on

the equipment: 200°C

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

If heated

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.

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

Harmful if swallowed.

Acute toxicity

Exposure route	Endpoint	Value	Species	Method	Source
dermal	LD50	>5.000 ^{mg} / _{kg}	rabbit		
oral	LD50	4.450 ^{mg} / _{kg}	rat		

Acute toxicity of components

, ,					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
(±) - Menthol	89-78-1	oral	LD50	3.180 ^{mg} / _{kg}	rat
(±) - Menthol	89-78-1	inhalation: dust/mist	LC50	5.289 ^{mg} / _{m³} / 4h	rat
Acetic acid methyl ester	79-20-9	oral	LD50	6.482 ^{mg} / _{kg}	rat

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Acute toxic	city of	compo	onents
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Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Acetic acid methyl ester	79-20-9	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
Isopulegol	89-79-2	oral	LD50	936 ^{mg} / _{kg}	rat
(-)-Carvone	6485-40-1	oral	LD50	5.400 ^{mg} / _{kg}	rat
(-)-Carvone	6485-40-1	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
DL-α-Pinene	80-56-8	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
DL-α-Pinene	80-56-8	oral	LD50	3.700 ^{mg} / _{kg}	rat

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

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

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

abdominal pain, aspiration hazard

• If in eyes

Causes serious eye irritation

If inhaled

cough, pain, choking, and breathing difficulties

• If on skin

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

Other information

none

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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.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) Exposure time **Endpoint Value Species** Source 3,01 ^{mg}/_I LC50 fish **ECHA** 96 h EC50 2,43 ^{mg}/_I aquatic invertebrates **ECHA** 48 h

Aquatic toxicity (acute) of components Name of sub-**CAS No Endpoint Value Species Exposure** time stance (±) - Menthol 22,3 ^{mg}/_l fish 96 h 89-78-1 LC50 (±) - Menthol 89-78-1 EC50 26,6 ^{mg}/_l aquatic invertebrates 48 h 16,2 ^{mg}/_l (±) - Menthol 89-78-1 ErC50 algae 72 h ≤350 ^{mg}/_I fish Acetic acid methyl es-79-20-9 LC50 96 h 1.027 ^{mg}/_I Acetic acid methyl es-79-20-9 EC50 48 h aquatic invertebrates ter Acetic acid methyl es-79-20-9 ErC50 >120 ^{mg}/_I algae 72 h 89-79-2 53,2 ^{mg}/_l Isopulegol EC50 aquatic invertebrates 48 h 50,6 mg/_I Isopulegol 89-79-2 ErC50 72 h algae 6,1 ^{mg}/_I fish (-)-Carvone 6485-40-1 LC50 96 h 6485-40-1 EC50 38 ^{mg}/_I aquatic invertebrates 48 h (-)-Carvone 19 ^{mg}/_I (-)-Carvone 6485-40-1 ErC50 algae 72 h DL-α-Pinene 80-56-8 LC50 0,303 ^{mg}/_l fish 96 h 0,475 mg/_I 80-56-8 EC50 48 h DL-α-Pinene aquatic invertebrates

Aquatic toxicity (chronic) of components							
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time		
(±) - Menthol	89-78-1	EC50	306 ^{mg} / _l	microorganisms	3 h		
Acetic acid methyl es- ter	79-20-9	EC50	6.000 ^{mg} / _l	microorganisms	16 h		

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Aquatic toxicity (chronic) of components							
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time		
Isopulegol	89-79-2	EC50	>1.000 ^{mg} / _l	microorganisms	180 min		

12.2 Persistence and degradability

Biodegradation

The substance is readily biodegradable.

Degradability of components

Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Acetic acid methyl ester	79-20-9	biotic/abiotic	>70 %	19 d	geschlossene Flasche	
Acetic acid methyl ester	79-20-9	oxygen deple- tion	1 %	0 d		ECHA
Isopulegol	89-79-2	carbon dioxide generation	<10 %	7 d		ECHA
L-(-)-Limonene	5989-54-8	oxygen deple- tion	85 %	28 d		ECHA
(-)-Carvone	6485-40-1	oxygen deple- tion	90 %	28 d		ECHA
DL-α-Pinene	80-56-8	oxygen deple- tion	68 %	28 d		ECHA

12.3 Bioaccumulative potential

The substance fulfils the very bioaccumulative criterion.

n-octanol/water (log KOW)	2,73 – 6,99 (pH value: ~7, 25 °C) (ECHA)

Bioaccumulative potential of components

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
(±) - Menthol	89-78-1	≥0,5 - ≤15	3,4 (pH value: 7,2, 37 °C)	
Menthone	10458-14-7		3,05	
Acetic acid methyl ester	79-20-9		0,18	
Isopulegol	89-79-2		2,4 (pH value: 6,2, 23 °C)	
L-(-)-Limonene	5989-54-8	864,8	4,38 (pH value: 7,2, 37 °C)	
(-)-Carvone	6485-40-1		2,74	
DL-α-Pinene	80-56-8		4,83	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

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12.6 Endocrine disrupting properties

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

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 4 irritant - skin irritation and eye damage

acute toxicity HP 6

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 3082 **IMDG-Code UN 3082** ICAO-TI **UN 3082**

14.2 UN proper shipping name

ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-**IMDG-Code**

QUID, N.O.S.

ICAO-TI Environmentally hazardous substance, liquid,

n.o.s.

Technical name Mint oil

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14.3	Trans	port	hazard	class(es)
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ADR 9

IMDG-Code 9

ICAO-TI 9

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.

14.8 Information for each of the UN Model Regulations

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

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

Particulars in the transport document UN3082, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, LIQUID, N.O.S., (Mint oil), 9, III, (-)

Classification code M6

Danger label(s) 9, "Fish and tree"





Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
Transport category (TC) 3
Tunnel restriction code (TRC) -

Hazard identification No 90

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

Particulars in the shipper's declaration UN3082, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, LIQUID, N.O.S., (Mint oil), 9, III

Marine pollutant yes (hazardous to the aquatic environment), (Mint oil)

Danger label(s) 9, "Fish and tree"

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Special provisions (SP) 274, 335, 969

Excepted quantities (EQ) E1 5 L Limited quantities (LQ) F-A, S-F **EmS**

Stowage category

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

Proper shipping name Environmentally hazardous substance, liquid,

UN3082, Environmentally hazardous substance, Particulars in the shipper's declaration

liquid, n.o.s., (Mint oil), 9, III

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 9, "Fish and tree"

Special provisions (SP) A97, A158, A197, A215

Excepted quantities (EQ) E1

Limited quantities (LQ) 30 kg

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
Mint oil	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3
Mint oil	substances in tattoo inks and permanent make-up		R75	75

Legend

1. 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,

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects, Articles not complying with paragraph 1 shall not be placed on the market.
 Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume,

- 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
- 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-

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as

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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.';

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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 (to plication of lower an quireme	d upper-tier re-	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	100 %
VOC content	901,5 ^g / _l

Industrial Emissions Directive (IED)

VOC content	100 %
VOC content	901,5 ^g / _l

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)

not listed

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

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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	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
VN	NCI	substance is listed

Legend

AIIC CICR ECSI IECSC Australian Inventory of Industrial Chemicals AllC Australian Inventory of Industrial Chemicals
CICR Chemical Inventory and Control Regulation
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC Inventory of Existing Chemical Substances Produced or Imported in China
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 Substances Inventory

TCSI Taiwan Chemical Substance Inventory

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 (ED) at a concentration of ≥ 0,1%.	yes
15.1	VOC content: 100 % 901,5 ^g / _l	VOC content: 100 %	yes
15.1		VOC content: 901,5 ^g / _l	yes
15.1		National inventories: change in the listing (table)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
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

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning 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 causing 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 identifier of substances commercially available within the EU (European Union)	
ED	Endocrine disruptor	
EINECS	European Inventory of Existing Commercial Chemical Substances	
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 eithe growth (EbC50) or growth rate (ErC50) relative to the control	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
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	

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Abbr.	Descriptions of used abbreviations
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
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
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
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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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