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Oil of thyme , nature identical

article number: **6513** Version: **2.0 en** Replaces version of: 26.06.2020 Version: (1)

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

1.1 Product identifier

Identification of the substance

Article number

Registration number (REACH)

Alternative name(s)

6513 not relevant (mixture)

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Oleum Thymi

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

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
3.1I	Acute toxicity (inhal.)	3	Acute Tox. 3	H331
3.2	Skin corrosion/irritation	1B	Skin Corr. 1B	H314
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.4S	Skin sensitisation	1	Skin Sens. 1	H317
3.7	Reproductive toxicity	2	Repr. 2	H361f

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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.8R	Specific target organ toxicity - single exposure (respirat- ory tract irritation)	3	STOT SE 3	H335
3.10	Aspiration hazard	1	Asp. Tox. 1	H304
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. 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

GHS09



Hazard statements

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H335	May cause respiratory irritation
H361f	Suspected of damaging fertility (if exposed)
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
D28U	Wear protective gloves/eve protection/face protection

P280 Wear protective gloves/eye protection/face protection

Precautionary statements - response

P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting
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
P310	Immediately call a POISON CENTER/doctor
P310	Immediately call a POISON CENTER/doctor

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Thymol, p-Cymene, DL-α-Pinene, Linalool, Geraniol, δ-3-Carene, β-Caryophyllene, Terpinolene, L-(-)-Limonene, Myrcene, Geranyl acetate, Eucalyptol,

ß-Pinene

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)

Hazardous ingredients for labelling:

H304 H314 H317 H331 H361f	May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic if inhaled. Suspected of damaging fertility (if exposed).
P280 P301+P330+P331 P302+P352 P305+P351+P338	Wear protective gloves/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
contains:	Thymol, p-Cymene, DL-α-Pinene, Linalool, Geraniol, δ-3-Carene, β-Caryophyllene, Terpinolene, L-(-)-Li- monene, Myrcene, Geranyl acetate, Eucalyptol, β-Pinene

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Thymol	CAS No 89-83-8 EC No 201-944-8 Index No 604-032-00-1	25 - < 50	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Chronic 2 / H411		GHS-HC
p-Cymene	CAS No 99-87-6 EC No 202-796-7 Index No 601-094-00-1	25 - < 50	Flam. Liq. 3 / H226 Acute Tox. 3 / H331 Repr. 2 / H361f Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		GHS-HC

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Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Linalool	CAS No 78-70-6	5-<10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319		GHS-HC
	EC No 201-134-4		Skin Sens. 1B / H317		
	Index No 603-235-00-2				
Carvacrol	CAS No 499-75-2	1 - < 5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315		
	EC No 207-889-6		Eye Irrit. 2 / H319		
p-Cymenene	CAS No 1195-32-0	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319		
	EC No 214-795-9		STOT SE 3 / H335		
4-Terpinenol	CAS No 562-74-3	1 - < 5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315		
	EC No 209-235-5		Eye Irrit. 2 / H319 STOT SE 3 / H335		
Camphene	CAS No 79-92-5	1 - < 5	Flam. Sol. 1 / H228 Eye Irrit. 2 / H319		
	EC No 201-234-8		Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
alpha-Terpineol	CAS No 98-55-5	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319		
	EC No 202-680-6			\checkmark	
y-Terpinene	CAS No 99-85-4	1 - < 5	Flam. Liq. 3 / H226 Repr. 2 / H361fd		
	EC No 202-794-6		Aquatic Chronic 2 / H411		
Geranyl acetate	CAS No 105-87-3	<1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317		
	EC No 203-341-5		Aquatic Chronic 3 / H412	\checkmark	
Geraniol	CAS No 106-24-1	<1	Skin Irrit. 2 / H315 Eye Dam. 1 / H318		GHS-HC
	EC No 203-377-1		Skin Sens. 1 / H317	\checkmark \checkmark	
	Index No 603-241-00-5				
Myrcene	CAS No 123-35-3	< 1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315		IARC: 2B
	EC No 204-622-5		Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411		

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Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
ß-Pinene	CAS No 127-91-3 EC No 204-872-5	<1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
δ-3-Carene	CAS No 13466-78-9 EC No 236-719-3	<1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
Eucalyptol	CAS No 470-82-6 EC No 207-431-5	<1	Flam. Liq. 3 / H226 Skin Sens. 1B / H317		
Terpinolene	CAS No 586-62-9 EC No 209-578-0	<1	Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
L-(-)-Limonene	CAS No 5989-54-8 EC No 227-815-6 Index No 601-029-00-7	<1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		C(b) GHS-HC
DL-α-Pinene	CAS No 80-56-8 EC No 201-291-9	<1	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1A / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
β-Caryophyllene	CAS No 87-44-5 EC No 201-746-1	<1	Skin Sens. 1 / H317 Asp. Tox. 1 / H304	(!)	

Notes

C(b): The substance is a specific isomer. The mixture of isomers is mentioned in Part 3 of the Regulation (EC) No 1272/2008
 GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)
 IARC: IARC group 2B: possibly carcinogenic to humans (International Agency for Research on Cancer)

IARC: 2B:

Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Thymol	CAS No 89-83-8 EC No 201-944-8 Index No 604-032-00-1	-	-	980 ^{mg} / _{kg}	oral

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Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ΑΤΕ	Exposure route
p-Cymene	CAS No 99-87-6	-	-	4h/µ/4h	inhalation: va- pour
	EC No 202-796-7				
	Index No 601-094-00-1				
Carvacrol	CAS No 499-75-2	-	-	810 ^{mg} / _{kg}	oral
	EC No 207-889-6				
4-Terpinenol	CAS No 562-74-3	-	-	1.300 ^{mg} / _{kg}	oral
	EC No 209-235-5				
Camphene	CAS No 79-92-5	-	M-factor (chronic) = 10.0	-	
	EC No 201-234-8		10.0		
DL-α-Pinene	CAS No 80-56-8	-	-	1.000 ^{mg} / _{kg}	oral
	EC No 201-291-9				

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

Following inhalation

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure. In case of skin reactions, consult a physician.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. according to Regulation (EC) No. 1907/2006 (REACH)

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Following ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Observe aspiration hazard if vomiting occurs.

4.2 Most important symptoms and effects, both acute and delayed

Corrosion, Aspiration hazard, Vomiting, Risk of blindness, Gastric perforation, Risk of serious damage to eyes, Irritation, Allergic reactions, Cough, Dyspnoea

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. 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. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO $_2$), 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. Wear full chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

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6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. Danger of explosion.

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. Use extractor hood (laboratory). Handle and open container with care. Avoid exposure. Clear contaminated areas thoroughly.

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. When using do not smoke.

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:

Store locked up. Ground/bond container and receiving equipment.

Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

7.3 Specific end use(s)

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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 of the mixture								
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	2,8 mg/m ³	human, inhalat- ory	worker (industry)	chronic - systemi effects		
Linalool	78-70-6	DNEL	16,5 mg/ m ³	human, inhalat- ory	worker (industry)	acute - systemic effects		
Linalool	78-70-6	DNEL	2,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - system effects		
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects		
y-Terpinene	99-85-4	DNEL	2,939 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - system effects		
y-Terpinene	99-85-4	DNEL	0,833 mg/ kg bw/day	human, dermal	worker (industry)	chronic - system effects		
Camphene	79-92-5	DNEL	110,2 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - system effects		
Camphene	79-92-5	DNEL	110,2 mg/ m ³	human, inhalat- ory	worker (industry)	acute - systemi effects		
Camphene	79-92-5	DNEL	0,21 mg/kg bw/day	human, dermal	worker (industry)	chronic - system effects		
Camphene	79-92-5	DNEL	1,25 mg/kg bw/day	human, dermal	worker (industry)	acute - systemie effects		
DL-α-Pinene	80-56-8	DNEL	3,8 mg/m ³	human, inhalat- ory	worker (industry)	chronic - system effects		
DL-α-Pinene	80-56-8	DNEL	0,542 mg/ kg bw/day	human, dermal	worker (industry)	chronic - system effects		
Geraniol	106-24-1	DNEL	161,6 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - system effects		
Geraniol	106-24-1	DNEL	12,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - system effects		
Geraniol	106-24-1	DNEL	11.800 µg/ cm²	human, dermal	worker (industry)	chronic - local e fects		
L-(-)-Limonene	5989-54-8	DNEL	33,3 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - system effects		
L-(-)-Limonene	5989-54-8	DNEL	222 μg/ cm²	human, dermal	worker (industry)	acute - local ef fects		
Geranyl acetate	105-87-3	DNEL	62,59 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - system effects		

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Relevant DNELs of components of the mixture								
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time		
Geranyl acetate	105-87-3	DNEL	35,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects		
Eucalyptol	470-82-6	DNEL	7,05 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects		
Eucalyptol	470-82-6	DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects		
ß-Pinene	127-91-3	DNEL	5,69 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects		
ß-Pinene	127-91-3	DNEL	0,8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects		
ß-Pinene	127-91-3	DNEL	54 µg/cm²	human, dermal	worker (industry)	chronic - local ef- fects		

Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Linalool	78-70-6	PNEC	0,2 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0,02 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Linalool	78-70-6	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2,22 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Linalool	78-70-6	PNEC	0,222 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0,327 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
alpha-Terpineol	98-55-5	PNEC	68 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
alpha-Terpineol	98-55-5	PNEC	6,8 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)
alpha-Terpineol	98-55-5	PNEC	2,6 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
alpha-Terpineol	98-55-5	PNEC	1,85 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
alpha-Terpineol	98-55-5	PNEC	0,185 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
alpha-Terpineol	98-55-5	PNEC	0,329 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
y-Terpinene	99-85-4	PNEC	0,003 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
γ-Terpinene	99-85-4	PNEC	0 ^{mg} /l	aquatic organ- isms	marine water	short-term (single instance)

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Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
y-Terpinene	99-85-4	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
y-Terpinene	99-85-4	PNEC	0,49 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
y-Terpinene	99-85-4	PNEC	0,049 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (single instance)
y-Terpinene	99-85-4	PNEC	0,423 ^{mg} / kg	terrestrial organ- isms	soil	short-term (single instance)
Camphene	79-92-5	PNEC	0,001 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Camphene	79-92-5	PNEC	0 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Camphene	79-92-5	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Camphene	79-92-5	PNEC	0,026 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Camphene	79-92-5	PNEC	0,003 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (single instance)
Camphene	79-92-5	PNEC	0,021 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
DL-a-Pinene	80-56-8	PNEC	0,606 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
DL-a-Pinene	80-56-8	PNEC	0,061 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)
DL-a-Pinene	80-56-8	PNEC	0,2 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
DL-a-Pinene	80-56-8	PNEC	157 ^{µg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
DL-a-Pinene	80-56-8	PNEC	15,7 ^{µg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
DL-a-Pinene	80-56-8	PNEC	31,7 ^{µg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
Geraniol	106-24-1	PNEC	0,011 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Geraniol	106-24-1	PNEC	0,001 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Geraniol	106-24-1	PNEC	0,7 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Geraniol	106-24-1	PNEC	0,115 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Geraniol	106-24-1	PNEC	0,011 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0,017 ^{mg} / kg	terrestrial organ- isms	soil	short-term (single instance)



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Relevant PNECs of components of the mixture								
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time		
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} / kg	terrestrial organ- isms	soil	short-term (single instance)		
Geranyl acetate	105-87-3	PNEC	3,72 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)		
Geranyl acetate	105-87-3	PNEC	0,372 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)		
Geranyl acetate	105-87-3	PNEC	8 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)		
Geranyl acetate	105-87-3	PNEC	0,442 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)		
Geranyl acetate	105-87-3	PNEC	0,044 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)		
Geranyl acetate	105-87-3	PNEC	0,086 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)		
Eucalyptol	470-82-6	PNEC	57 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)		
Eucalyptol	470-82-6	PNEC	5,7 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)		
Eucalyptol	470-82-6	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)		
Eucalyptol	470-82-6	PNEC	1,425 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)		
Eucalyptol	470-82-6	PNEC	0,142 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)		
Eucalyptol	470-82-6	PNEC	0,25 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)		
ß-Pinene	127-91-3	PNEC	1,004 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)		
ß-Pinene	127-91-3	PNEC	0,1 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)		
ß-Pinene	127-91-3	PNEC	3,26 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)		
ß-Pinene	127-91-3	PNEC	0,337 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)		

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Relevant PNECs of components of the mixture										
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time				
ß-Pinene	127-91-3	PNEC	0,034 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (single instance)				
ß-Pinene	127-91-3	PNEC	0,067 ^{mg} / _{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. Wear face protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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

>0,3 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).

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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 pro	perties
	Physical state	liquid
	Colour	yellow - red brown
	Odour	characteristic
	Melting point/freezing point	not determined
	Boiling point or initial boiling point and boiling range	>100 °C
	Flammability	flammable liquid in accordance with GHS criteria
	Lower and upper explosion limit	not determined
	Flash point	57 °C
	Auto-ignition temperature	not determined
	Decomposition temperature	not relevant
	pH (value)	not determined
	Kinematic viscosity	not determined
	Solubility(ies)	
	Water solubility	(practically insoluble)
	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	this information is not available
	Vapour pressure	not determined
	Density and/or relative density	
	Density	0,92 ^g / _{cm³} at 20 °C
	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:	There is no additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). 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.

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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

Acute toxicity

Toxic if inhaled.

cute toxicity estimate (ATE) of components of the mixture									
Name of substance	CAS No	Exposure route	ATE						
Thymol	89-83-8	oral	980 ^{mg} / _{kg}						
p-Cymene	99-87-6	inhalation: vapour	3 ^{mg} / _l /4h						
Carvacrol	499-75-2	oral	810 ^{mg} / _{kg}						
4-Terpinenol	562-74-3	oral	1.300 ^{mg} / _{kg}						
DL-a-Pinene	80-56-8	oral	1.000 ^{mg} / _{kg}						

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Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Thymol	89-83-8	oral	LD50	980 ^{mg} / _{kg}	rat
Thymol	89-83-8	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
p-Cymene	99-87-6	oral	LD50	4.750 ^{mg} / _{kg}	rat
p-Cymene	99-87-6	dermal	LD50	>5.000 ^{mg} / _{kg}	rabbit
Linalool	78-70-6	oral	LD50	2.790 ^{mg} / _{kg}	rat
Linalool	78-70-6	dermal	LD50	5.610 ^{mg} / _{kg}	rabbit
Carvacrol	499-75-2	oral	LD50	810 ^{mg} / _{kg}	rat
alpha-Terpineol	98-55-5	oral	LD50	4.300 ^{mg} / _{kg}	rat
alpha-Terpineol	98-55-5	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
γ-Terpinene	99-85-4	oral	LD50	>2.000 ^{mg} / _{kg}	rat
γ-Terpinene	99-85-4	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
4-Terpinenol	562-74-3	oral	LD50	1.300 ^{mg} / _{kg}	rat
4-Terpinenol	562-74-3	dermal	LD50	>2.500 - <5.00 0 ^{mg} / _{kg}	rabbit
DL-a-Pinene	80-56-8	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
DL-a-Pinene	80-56-8	oral	LD50	3.700 ^{mg} / _{kg}	rat
Geraniol	106-24-1	oral	LD50	3.600 ^{mg} / _{kg}	rat
Geraniol	106-24-1	dermal	LD50	>5.000 ^{mg} / _{kg}	rabbit
δ-3-Carene	13466-78-9	oral	LD50	4.800 ^{mg} / _{kg}	rat
β-Caryophyllene	87-44-5	oral	LD50	>5.000 ^{mg} / _{kg}	mouse
Terpinolene	586-62-9	oral	LD50	>2.000 ^{mg} / _{kg}	rat
Terpinolene	586-62-9	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
Myrcene	123-35-3	oral	LD50	>3.380 ^{mg} / _{kg}	mouse
Myrcene	123-35-3	dermal	LD50	>5.000 ^{mg} / _{kg}	rabbit
Geranyl acetate	105-87-3	oral	LD50	6.330 ^{mg} / _{kg}	rat
Eucalyptol	470-82-6	oral	LD50	2.480 ^{mg} / _{kg}	rat
ß-Pinene	127-91-3	oral	LD50	4.700 ^{mg} / _{kg}	rat

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging fertility (if exposed).

Specific target organ toxicity - single exposure

May cause respiratory irritation.

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

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects), aspiration hazard

• If in eyes

causes burns, Causes serious eye damage, risk of blindness

• If inhaled

Irritation to respiratory tract, cough, Dyspnoea

• If on skin

causes severe burns, causes poorly healing wounds, May produce an allergic reaction, pruritis, localised redness

• Other information

none

11.2 Endocrine disrupting properties

None of the ingredients are listed.

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.

quatic toxicity (acute) of components of the mixture								
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
Thymol	89-83-8	LC50	3,2 ^{mg} / _l	fish	96 h			
Thymol	89-83-8	ErC50	14 ^{mg} / _l	algae	72 h			
Thymol	89-83-8	EC50	7,7 ^{mg} /l	algae	72 h			



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Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
p-Cymene	99-87-6	LC50	48 ^{mg} /l	fish	96 h
p-Cymene	99-87-6	EC50	3,7 ^{mg} / _l	aquatic invertebrates	48 h
p-Cymene	99-87-6	ErC50	4,03 ^{mg} / _l	algae	72 h
Linalool	78-70-6	LC50	27,8 ^{mg} / _l	fish	96 h
Linalool	78-70-6	EC50	59 ^{mg} /l	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156,7 ^{mg} / _l	algae	96 h
Carvacrol	499-75-2	LC50	6,17 ^{mg} / _l	fish	96 h
Carvacrol	499-75-2	EC50	6,06 ^{mg} / _l	aquatic invertebrates	48 h
Carvacrol	499-75-2	ErC50	4,05 ^{mg} / _l	algae	72 h
alpha-Terpineol	98-55-5	LC50	70 ^{mg} /l	fish	96 h
alpha-Terpineol	98-55-5	EC50	73 ^{mg} /l	aquatic invertebrates	48 h
alpha-Terpineol	98-55-5	ErC50	68 ^{mg} /l	algae	72 h
y-Terpinene	99-85-4	EC50	2,792 ^{mg} / _l	fish	96 h
Camphene	79-92-5	LC50	0,72 ^{mg} / _l	fish	96 h
Camphene	79-92-5	EC50	0,72 ^{mg} / _l	aquatic invertebrates	48 h
Camphene	79-92-5	ErC50	>1.000 ^{mg} / _l	algae	72 h
DL-α-Pinene	80-56-8	LC50	0,303 ^{mg} / _l	fish	96 h
DL-α-Pinene	80-56-8	EC50	0,475 ^{mg} / _l	aquatic invertebrates	48 h
Geraniol	106-24-1	LC50	22 ^{mg} / _l	fish	96 h
Geraniol	106-24-1	EC50	10,8 ^{mg} / _l	aquatic invertebrates	48 h
Geraniol	106-24-1	ErC50	13,1 ^{mg} / _l	algae	72 h
β-Caryophyllene	87-44-5	EC50	>0,17 ^{mg} / _l	daphnia magna	48 h
β-Caryophyllene	87-44-5	ErC50	>0,033 ^{mg} / _l	algae	72 h
Terpinolene	586-62-9	LC50	0,805 ^{mg} / _l	fish	96 h
Terpinolene	586-62-9	EC50	0,634 ^{mg} / _l	aquatic invertebrates	48 h
Terpinolene	586-62-9	ErC50	0,692 ^{mg} / _l	algae	72 h
Myrcene	123-35-3	EC50	1,47 ^{mg} / _l	aquatic invertebrates	48 h
Myrcene	123-35-3	EC50	0,31 ^{mg} / _l	algae	72 h
Myrcene	123-35-3	ErC50	0,342 ^{mg} / _l	algae	72 h
Geranyl acetate	105-87-3	LC50	68,12 ^{mg} / _l	fish	96 h
Geranyl acetate	105-87-3	EC50	14,1 ^{mg} / _l	aquatic invertebrates	48 h
Geranyl acetate	105-87-3	ErC50	3,72 ^{mg} / _l	algae	72 h

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Aquatic toxicity (a	Aquatic toxicity (acute) of components of the mixture								
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time				
Eucalyptol	470-82-6	LC50	57 ^{mg} / _l	fish	96 h				
Eucalyptol	470-82-6	EC50	>100 ^{mg} / _l	aquatic invertebrates	48 h				
Eucalyptol	470-82-6	ErC50	>74 ^{mg} / _l	algae	72 h				
ß-Pinene	127-91-3	LC50	0,68 ^{mg} / _l	rainbow trout (Onco- rhynchus mykiss)	96 h				
ß-Pinene	127-91-3	EC50	1,09 ^{mg} / _l	daphnia magna	48 h				
ß-Pinene	127-91-3	ErC50	0,7 ^{mg} / _l	Pseudokirchneriella subcapitata	72 h				

Aquatic toxicity (chronic) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
Thymol	89-83-8	EC50	3,5 ^{mg} / _l	aquatic invertebrates	21 d			
Linalool	78-70-6	EC50	>100 ^{mg} / _l	microorganisms	30 min			
Carvacrol	499-75-2	EC50	75,75 ^{mg} / _l	microorganisms	3 h			
y-Terpinene	99-85-4	EC50	>1.000 ^{mg} / _l	microorganisms	3 h			
Camphene	79-92-5	EC50	>1.000 ^{mg} / _l	microorganisms	3 h			
Geraniol	106-24-1	EC50	70 ^{mg} /l	microorganisms	30 min			
Terpinolene	586-62-9	EC50	69 ^{mg} / _l	microorganisms	3 h			
Eucalyptol	470-82-6	EC50	>100 ^{mg} / _l	microorganisms	3 h			
ß-Pinene	127-91-3	EC50	326 ^{mg} / _l	microorganisms	3 h			

Biodegradation

Not readily biodegradable.

12.2 Process of degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Thymol	89-83-8	biotic/abiotic	>80 %	28 d		
Thymol	89-83-8	oxygen deple- tion	83 %	28 d		ECHA
p-Cymene	99-87-6	oxygen deple- tion	88 %	14 d		ECHA
Linalool	78-70-6	oxygen deple- tion	40,9 %	5 d		ECHA
Carvacrol	499-75-2	oxygen deple- tion	18,1 %	28 d		ECHA

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Degradability	of compone	ents of the mixt	ture			
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
alpha-Terpin- eol	98-55-5	carbon dioxide generation	80 %	28 d	OECD Guideline 310	
y-Terpinene	99-85-4	oxygen deple- tion	27 %	28 d		ECHA
DL-a-Pinene	80-56-8	oxygen deple- tion	68 %	28 d		ECHA
Geraniol	106-24-1	DOC removal	90 – 100 %	3 d		ECHA
β-Caryophyl- lene	87-44-5	oxygen deple- tion	10 %	28 d		ECHA
Terpinolene	586-62-9	oxygen deple- tion	81 %	28 d		ECHA
L-(-)-Limonene	5989-54-8	oxygen deple- tion	85 %	28 d		ECHA
Myrcene	123-35-3	oxygen deple- tion	76 %	28 d		ECHA
Geranyl acet- ate	105-87-3	oxygen deple- tion	>70 %	28 d		ECHA
Eucalyptol	470-82-6	carbon dioxide generation	82 %	28 d		ECHA
ß-Pinene	127-91-3	oxygen deple- tion	76 %	28 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

accumulative potential of components of the mixture					
Name of substance	CAS No	BCF	Log KOW	BOD5/COD	
Thymol	89-83-8	48	3,3		
p-Cymene	99-87-6		4,8 (pH value: ~7, 20 °C)		
Linalool	78-70-6		2,9 (pH value: 7, 20 °C)		
Carvacrol	499-75-2		3,33 (40 °C)		
alpha-Terpineol	98-55-5		2,6 (30 °C)		
y-Terpinene	99-85-4		5,4 (25 °C)		
Camphene	79-92-5		4,22 (pH value: 7,2, 37 °C)		
DL-α-Pinene	80-56-8	4,83			
Geraniol	106-24-1		2,6 (25 °C)		
δ-3-Carene	13466-78-9		4,38		
β-Caryophyllene	87-44-5		6,23 (pH value: 7, 25 °C)		
Terpinolene	586-62-9		4,47		
L-(-)-Limonene	5989-54-8	864,8	4,38 (pH value: 7,2, 37 °C)		

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Bioaccumulative potential of components of the mixture						
Name of substance	ame of substance CAS No BCF Log KOW BOD5/CO					
Myrcene	123-35-3		4,82 (pH value: ~6,5, 30 °C)			
Geranyl acetate	105-87-3	4,04				
Eucalyptol	470-82-6		3,4			

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

- **12.6 Endocrine disrupting properties** None of the ingredients are listed.
- 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.

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. Waste catalogue ordinance (Germany).

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.

SECTION 14: Transport information

14.1 UN number or ID number

UN proper chipping pame	
ICAO-TI	UN 1992
IMDG-Code	UN 1992
ADR	UN 1992

14.2 UN proper shipping name

ADR

FLAMMABLE LIQUID, TOXIC, N.O.S.

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	IMDG-Code	FLAMMABLE LIQUID, TOXIC, N.O.S.
	ICAO-TI	Flammable liquid, toxic, n.o.s.
	Technical name (hazardous ingredients)	p-Cymene, Thymol
14.3	Transport hazard class(es)	
	ADR	3 (6.1)
	IMDG-Code	3 (6.1)
	ICAO-TI	3 (6.1)
14.4	Packing group	
	ADR	III
	IMDG-Code	III
	ICAO-TI	III
14.5	Environmental hazards	hazardous to the aquatic environment
	Environmentally hazardous substance (aquatic environment):	Thymol

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

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
Particulars in the transport document	UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S., (contains: p-Cymene, Thymol), 3 (6.1), III, (D/E), environmentally hazardous
Classification code	FT1
Danger label(s)	3+6.1, "Fish and tree"
Environmental hazards	Yes (hazardous to the aquatic environment)
Special provisions (SP)	274, 802(ADN)
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	D/E
Hazard identification No	36

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International Maritime Dangerous Goods Code	e (IMDG) - Additional information
Proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
Particulars in the shipper's declaration	UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S., (contains: p-Cymene, Thymol), 3 (6.1), III, 57°C c.c., MARINE POLLUTANT
Marine pollutant	YES (hazardous to the aquatic environment), (Thymol)
Danger label(s)	3+6.1, "Fish and tree"
Special provisions (SP)	223, 274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, S-D
Stowage category	A
International Civil Aviation Organization (ICAC	O-IATA/DGR) - Additional information
Proper shipping name	Flammable liquid, toxic, n.o.s.
Particulars in the shipper's declaration	UN1992, Flammable liquid, toxic, n.o.s., (contains: p-Cymene, Thymol), 3 (6.1), III
Environmental hazards	Yes (hazardous to the aquatic environment)
Danger label(s)	3+6.1
Special provisions (SP)	A3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	2 L

SECTION 15: Regulatory information

15.1 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

gerous substances with restrictions (REACH, Annex XVII)					
Name of substance	Name acc. to inventory	CAS No	Restriction	No	
Oil of thyme	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3	
Geranyl acetate	substances in tattoo inks and perman- ent make-up		R75	75	
Geraniol	substances in tattoo inks and perman- ent make-up		R75	75	
Myrcene	flammable / pyrophoric		R40	40	

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gerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Myrcene	substances in tattoo inks and perman- ent make-up		R75	75
ß-Pinene	flammable / pyrophoric		R40	40
ß-Pinene	substances in tattoo inks and perman- ent make-up		R75	75
δ-3-Carene	flammable / pyrophoric		R40	40
δ-3-Carene	substances in tattoo inks and perman- ent make-up		R75	75
Eucalyptol	flammable / pyrophoric		R40	40
L-(-)-Limonene	flammable / pyrophoric		R40	40
L-(-)-Limonene	substances in tattoo inks and perman- ent make-up		R75	75
Camphene	flammable / pyrophoric		R40	40
DL-a-Pinene	flammable / pyrophoric		R40	40
β-Caryophyllene	substances in tattoo inks and perman- ent make-up		R75	75
y-Terpinene	flammable / pyrophoric		R40	40
y-Terpinene	substances in tattoo inks and perman- ent make-up		R75	75
p-Cymene	flammable / pyrophoric		R40	40
p-Cymene	substances in tattoo inks and perman- ent make-up		R75	75

Legend R3

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,

tricks and jokes,

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, 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.
 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 pack-aging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements 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.';

according to Regulation (EC) No. 1907/2006 (REACH)

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Legend R40

- 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 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.

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.



according to Regulation (EC) No. 1907/2006 (REACH)

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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 sub-stances 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

weight;

(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser cat-egory 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 cat-egory 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

(f) in the case of a substance insteam and the first and 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 concentration. (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 strictest in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the 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.

A. 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 the paragraph 1 or substance then paragraph 1 or substance to paragraph 1 or substance then paragraph 1 or substance to paragraph 1 or su plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, para-graph 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 affect after the date referred to in paragraph 1 or as the case may be paragraph 4 of this entry.

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"; (b) a reference number to uniquely identify the barch:

(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.

according to Regulation (EC) No. 1907/2006 (REACH)

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Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or gener-ate a vapour pressure of more than 300 kPa at temperature of 50 °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

None of the ingredients are listed.

Seveso Directive

2012/18/EU (Seveso III)						
Νο	No Dangerous substance/hazard categories Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements		Notes			
H2	acute toxic (cat. 2 + cat. 3, inhal.)	50	200	41)		

Notation

41)

- Category 2, all exposure routes - category 3, inhalation exposure route

Deco-Paint Directive

VOC content	99,1 % 911,7 ⁹ / _l

Industrial Emissions Directive (IED)

VOC content	57,8 %
VOC content	531,8 ^g / _l

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

none of the ingredients are listed

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

none of the ingredients are listed

Water Framework Directive (WFD)

ist 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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t of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
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)	
y-Terpinene	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)	
p-Cymene	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

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

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

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are 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

according to Regulation (EC) No. 1907/2006 (REACH)



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Country	Inventory	Status
AU	AICS	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.	not all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
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

Legend

Legena	
AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EÍNECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals 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

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

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

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes

according to Regulation (EC) No. 1907/2006 (REACH)



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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		The most important adverse physicochemical, human health and environmental effects: Skin corrosion produces an irreversible dam- age to the skin; namely, visible necrosis through the epidermis and into the dermis. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2	Hazardous ingredients for labelling: Thymol, DL-α-Pinene, p-Cymene, Linalool	Hazardous ingredients for labelling: Thymol, p-Cymene, DL-α-Pinene, Linalool, Gera- niol, δ-3-Carene, β-Caryophyllene, Terpinolene, L-(-)-Limonene, Myrcene, Geranyl acetate, Euca- lyptol, β-Pinene	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2	contains: Thymol, DL-α-Pinene, p-Cymene, Linalool	contains: Thymol, p-Cymene, DL-α-Pinene, Linalool, Gera- niol, δ-3-Carene, β-Caryophyllene, Terpinolene, L-(-)-Limonene, Myrcene, Geranyl acetate, Euca- lyptol, β-Pinene	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard

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CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures COD Chemical oxygen demand DCR Dangerous Goods Regulations (see IATA/DGR) DNEL Derived No-Effect Level ECS0 Effective Concentration 50 %. The ECS0 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 iden fier of substances commercial valuable within the EU (European Union) EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances EmS European List of Notified Chemical Substances EYe Dam. Seriously damaging to the eye Eye Irrit. Irritant to the eye Flam. Liq. Flammable liquid Flam. Sol. "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na toos IARC International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Civil Aviation Organization ICAO International Maritime Dangerous Goods Code <	Abbr.	Descriptions of used abbreviations
BCF Bitoconcentration factor BCD 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 ECS0 Effective Concentration 50 %. The ECS0 corresponds to the concentration of a tested substance causin 50 % changes in response (e.g. on growth) during a specified time interval ECN0 The EC Inventory (EINECS, ELINCS and the NLP-IB) is the source for the seven-digit EC number, an iden filer of substances commercial yavailable within the EU (European lurion) EINECS European Inventory of Existing Commercial Chemical Substances EENS EcS0: in this method, that concentration of test substance which results in a 50 % reduction in eithe growth (EbCS0) or growth rate (ErCS0) relative to the control Eye Dam. Seriously damaging to the eye Flarm. Liq. International Aft Transport Association IARC International Aft Transport Association IARC International Aft Transport Association IATA/DGR Dangerous Goods Regulations (DGR) for the air tran	Asp. Tox.	Aspiration hazard
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 iden filer of substances commercially available within the EU (European Union) EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European Inventory of Existing Commercial Chemical Substances ErrC50 = 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 Eye Dam. Seriously damaging to the eye Eye Irrit. Irritant to the eye Flam. Liq. Flammable Ilquid Flam. Sol. "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United No tibins	ATE	Acute Toxicity Estimate
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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-IIst) is the source for the seven-digit EC number, an iden firer of substances commercial y available within the UL (European Union)) EINECS European Inventory of Existing Commercial 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 Eye Dam. Seriously damaging to the eye Eye Irrit. Irritant to the eye Flam. Liq. Flammable liquid Flam. Sol. Flammable Solid GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations IARC International Agency for Research on Cancer IATA	BOD	Biochemical Oxygen Demand
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-IIst) is the source for the seven object if the full (European Union) EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances EMS European List of Notified Chemical Substances EMS European List of Notified Chemical Substances Eve Dam. Seriously damaging to the eye Eye Irrit, Irritant to the eye Flam. Liq. Flammable liquid Flam. Sol. Flammable solid GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na tions IARC International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA Dangerous Goods Regulations (UGR) for the air transport (IATA) ICAO International Maritime Dangerous Goods Code	CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
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 iden fier of substances commercially available within the EU (European Union) EINECS European Inventory of Existing Commercial 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 Eye Dam. Seriously damaging to the eye Eye Irrit. Irritant to the eye Flam. Liq. Flammable liquid Flam. Sol. Flammable solid GH5 "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Notions LARC International Agency for Research on Cancer IATA International Agency for the air transport (IATA) ICAO International Maritime Dangerous Goods Code IMDG International Mar	CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
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specified time interval	LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
log KOW n-Octanol/water	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

according to Regulation (EC) No. 1907/2006 (REACH)



Oil of thyme , nature identical

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Abbr.	Descriptions of used abbreviations
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STOT SE	Specific target organ toxicity - single exposure
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).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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

Code	Text
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

according to Regulation (EC) No. 1907/2006 (REACH)



Oil of thyme , nature identical

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Code	Text
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility (if exposed).
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child (if exposed).
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

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