



# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 5/15/2014 Revision date: 3/5/2020 Version: 1.6

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

#### 1.1. Product identifier

Product form : Substance  
Substance name : MOROCCAN THYME OIL CT BORNEOL  
EC-No. : 934-977-8  
CAS-No. : NA  
Product code : THYHE02  
Product group : Essential oil

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use  
Industrial/Professional use spec : Industrial  
For professional use only

##### 1.2.2. Uses advised against

No additional information available

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

EXAFLOR  
5 rue des Pyrénées  
P.O. Box CP 30561  
94653 Rungis Cedex - France  
T +33 (0)1 41 73 23 10 - F +33 (0)1 41 73 23 19  
[exaflor@orange.fr](mailto:exaflor@orange.fr) - [www.exaflor.fr](http://www.exaflor.fr)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
	ORFILA (FRANCE)		+33 1 45 42 59 59	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226  
Skin corrosion/irritation, Category 1B H314  
Serious eye damage/eye irritation, Category 2 H319  
Skin sensitisation, Category 1 H317  
Reproductive toxicity, Category 2 H361  
Aspiration hazard, Category 1 H304  
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411  
Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS05

GHS07

GHS08

GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: 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.  
H361 - Suspected of damaging fertility or the unborn child.  
H411 - Toxic to aquatic life with long lasting effects.

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### Precautionary statements (CLP)

: P201 - Obtain special instructions before use.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing mist, fume, dust, vapours.  
P280 - Wear protective gloves, protective clothing, eye protection.  
P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. Do NOT induce vomiting.  
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER, a doctor.  
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a POISON CENTER, a doctor.  
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, a doctor.  
P308+P313 - IF exposed or concerned: Get medical advice.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : MOROCCAN THYME OIL CT BORNEOL  
CAS-No. : NA  
EC-No. : 934-977-8

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BORNEOL	(CAS-No.) 507-70-0 (EC-No.) 208-080-0	23 - 38	Skin Sens. 1, H317
ALPHA-TERPINEOL	(CAS-No.) 98-55-5 (EC-No.) 202-680-6	4 - 16	Skin Irrit. 2, H315 Eye Irrit. 2, H319
CAMPHENE	(CAS-No.) 79-92-5 (EC-No.) 201-234-8	3 - 13.5	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
THYMOL	(CAS-No.) 89-83-8 (EC-No.) 201-944-8 (EC Index-No.) 604-032-00-1	1 - 12	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
CARVACROL	(CAS-No.) 499-75-2 (EC-No.) 207-889-6	3 - 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
BETA-CARYOPHYLLENE	(CAS-No.) 87-44-5 (EC-No.) 201-746-1	2 - 9	Not classified
P-CYMENE	(CAS-No.) 99-87-6 (EC-No.) 202-796-7	2 - 8	Flam. Liq. 3, H226 Aquatic Chronic 2, H411
LINALOOL	(CAS-No.) 78-70-6 (EC-No.) 201-134-4	2.5 - 7	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
GAMMA-TERPINENE	(CAS-No.) 99-85-4 (EC-No.) 202-794-6	1 - 5	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304
ALPHA-PINENES	(CAS-No.) 80-56-8 (EC-No.) 201-291-9	<= 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-TERPINEOL	(CAS-No.) 562-74-3 (EC-No.) 209-235-5	1.2 - 4	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

CAMPHOR	(CAS-No.) 76-22-2 (EC-No.) 200-945-0	<= 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412
BETA-PINENES	(CAS-No.) 127-91-3 (EC-No.) 204-872-5	0.5 - 3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
MYRCENE	(CAS-No.) 123-35-3 (EC-No.) 204-622-5	0.2 - 3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319
D-LIMONENE	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7	<= 2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
EUCALYPTOL	(CAS-No.) 470-82-6 (EC-No.) 207-431-5	0 - 1.5	Flam. Liq. 3, H226
ALPHA-TERPINENE	(CAS-No.) 99-86-5 (EC-No.) 202-795-1	<= 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash with plenty of water/.... If skin irritation or rash occurs: Get immediate medical advice/attention, Immediately call a POISON CENTER/doctor. Get medical advice/attention. Specific treatment (see Read label before use. on this label). Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. If eye irritation persists: Consult an eye specialist. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: Causes severe skin burns and eye damage. Suspected of damaging fertility or the unborn child.
Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 6: Accidental release measures

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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe smokes, vapours. Avoid breathing smokes, vapours. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating equipment. Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Maximum storage period : 36 months Shelf life to guarantee the quality and properties of the product; After this period, it is recommended to control organoleptic and physicochemical properties before using the raw material.

Storage temperature : 5 - 25 °C

Storage area : Store in a well-ventilated place. Keep away from any flames or sparking source. Keep in the dark. Store away from heat.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### CAMPHOR (76-22-2)

##### France - Occupational Exposure Limits

Local name	Camphre
VME (mg/m <sup>3</sup> )	12 mg/m <sup>3</sup>
VME (ppm)	2 ppm

#### 8.2. Exposure controls

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### Hand protection:

Wear protective gloves.

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### Eye protection:

Chemical goggles or face shield

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid mobile. Clear.
Colour	: Yellow. brown. red. orange.
Odour	: characteristic. strong.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 57 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.925 - 0.948
Solubility	: Poorly soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

Refractive index : 1.478 - 1.494

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates : Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### BORNEOL (507-70-0)

LD50 oral rat	5800 mg/kg [French Demande Patent Document. Vol. #2448856]
LD50 oral	1059 mg/kg LD50 oral mouse [Shika Gakuho. Journal of Dentistry. Vol. 75, Pg. 934, 1975]
LD50, mammalian, acute, oral, rabbit, systemic	= 2000 mg/kg ([Reviews of Environmental Contamination and Toxicology. Vol. 113, Pg. 47, 1990])

### CAMPHENE (79-92-5)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2500 mg/kg

### THYMOL (89-83-8)

LD50 oral rat	980 mg/kg
---------------	-----------

### CARVACROL (499-75-2)

LD50 oral rat	810 mg/kg
LD50 dermal rabbit	2700 mg/kg

### P-CYMENE (99-87-6)

LD50 oral rat	4750 mg/kg
LD50 dermal rabbit	5000

### GAMMA-TERPINENE (99-85-4)

LD50 oral rat	3850
---------------	------

### LINALOOL (78-70-6)

LD50 oral rat	2790 mg/kg
LD50 oral	3120 mg/kg LD50 oral mouse
LD50 dermal rabbit	5610 mg/kg

### 4-TERPINEOL (562-74-3)

LD50 oral rat	1300 mg/kg
LD50 dermal rabbit	2500 mg/kg

### MYRCENE (123-35-3)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

### EUCALYPTOL (470-82-6)

LD50 oral rat	2480 ml/kg
---------------	------------

### D-LIMONENE (5989-27-5)

LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

### ALPHA-TERPINENE (99-86-5)

LD50 oral rat	1680 mg/kg
---------------	------------

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### CAMPHOR (76-22-2)

LD50 dermal	3040 mg/kg rat
-------------	----------------

### ALPHA-PINENES (80-56-8)

LD50 oral rat	3700 mg/kg
---------------	------------

LD50 dermal rabbit	> 5000 mg/kg
--------------------	--------------

Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met

### D-LIMONENE (5989-27-5)

IARC group	3 - Not classifiable
------------	----------------------

Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

### CAMPHENE (79-92-5)

LC50 fish 1	0.72 mg/l
-------------	-----------

EC50 Daphnia 1	22 mg/l
----------------	---------

EC50 other aquatic organisms 1	1000
--------------------------------	------

### THYMOL (89-83-8)

LC50 fish 1	Average 3.7 (3.2 - 4.2) mg/l Pimephales promela (fathead minnow) - 96h
-------------	--

EC50 Daphnia 1	Average 2.5 (1.7 - 3.2) mg/l EC50 (Daphnia Magna) - 96h
----------------	---

### P-CYMENE (99-87-6)

LC50 fish 1	48 mg/l 96h -Cyprinodon variegatus (Sheep shead minnow)
-------------	---

EC50 Daphnia 1	6.5 mg/l EC50 48h - Daphnia magna [mg/l]
----------------	--

ErC50 (algae)	4.03 mg/l 72h - Scenedesmus capricornutum (Fresh water algae)
---------------	---

### LINALOOL (78-70-6)

LC50 fish 1	27.8 mg/l EC 50 (fish : rainbow trout) : - 96h
-------------	--

LC50 other aquatic organisms 1	88.3 mg/l Desmodesmus subspicatus (green algae) - 96h
--------------------------------	---

EC50 Daphnia 1	59 mg/l EC50 48h - Daphnia magna [mg/l]
----------------	---

NOEC chronic fish	3.5 mg/l Oncorhynchus mykiss (Rainbow trout)- 96h
-------------------	---

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

NOEC chronic crustacea	25 mg/l daphnia - 48h
------------------------	-----------------------

### EUCALYPTOL (470-82-6)

LC50 fish 1	102 mg/l Pimephales promela (fathead minnow) - 96h
-------------	--

### D-LIMONENE (5989-27-5)

LC50 fish 1	0.702 mg/l Pimephales promela (fathead minnow) -96h
EC50 Daphnia 1	69.6 daphnia - 48h

### ALPHA-TERPINENE (99-86-5)

LC50 fish 1	3.15 mg/l LC50 96h fish - Pimephales promela (fathead minnow)
EC50 Daphnia 1	1.85 mg/l EC50 48h - Daphnia magna [mg/l]

### CAMPHOR (76-22-2)

LC50 fish 1	50 mg/l LC50 96h fish
-------------	-----------------------

### ALPHA-PINENES (80-56-8)

LC50 fish 1	0.28 mg/l Pimephales promela (fathead minnow) - 96h
LC50 other aquatic organisms 1	41 mg/l EC50 48h - Daphnia magna [mg/l]

## 12.2. Persistence and degradability

### MOROCCAN THYME OIL CT BORNEOL (NA)

Persistence and degradability	May cause long-term adverse effects in the environment.
-------------------------------	---

### BORNEOL (507-70-0)

Persistence and degradability	Not established.
-------------------------------	------------------

### ALPHA-TERPINEOL (98-55-5)

Persistence and degradability	Not established.
-------------------------------	------------------

### CAMPHENE (79-92-5)

Biodegradation	4 % aerobic - No readily biodegradable
----------------	--

### THYMOL (89-83-8)

Persistence and degradability	May cause long-term adverse effects in the environment.
-------------------------------	---

### CARVACROL (499-75-2)

Persistence and degradability	Not established.
-------------------------------	------------------

### P-CYMENE (99-87-6)

Persistence and degradability	Readily biodegradable.
Biodegradation	100 %

### GAMMA-TERPINENE (99-85-4)

Persistence and degradability	Not established.
-------------------------------	------------------

### LINALOOL (78-70-6)

Persistence and degradability	Readily biodegradable. Not established.
Biodegradation	100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B



# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 4-TERPINEOL (562-74-3)

Persistence and degradability	Not established.
-------------------------------	------------------

### MYRCENE (123-35-3)

Persistence and degradability	Not established.
-------------------------------	------------------

### BETA-PINENES (127-91-3)

Persistence and degradability	Not established.
-------------------------------	------------------

### D-LIMONENE (5989-27-5)

Persistence and degradability	May cause long-term adverse effects in the environment.
-------------------------------	---

### ALPHA-TERPINENE (99-86-5)

Persistence and degradability	May cause long-term adverse effects in the environment.
-------------------------------	---

### CAMPHOR (76-22-2)

Persistence and degradability	May cause long-term adverse effects in the environment.
-------------------------------	---

BOD (% of ThOD)	94 % ThOD
-----------------	-----------

### BETA-CARYOPHYLLENE (87-44-5)

Persistence and degradability	Not established.
-------------------------------	------------------

### ALPHA-PINENES (80-56-8)

Persistence and degradability	Readily biodegradable. May cause long-term adverse effects in the environment.
-------------------------------	--

### 12.3. Bioaccumulative potential

#### MOROCCAN THYME OIL CT BORNEOL (NA)

Bioaccumulative potential	Not established.
---------------------------	------------------

### BORNEOL (507-70-0)

Log Kow	2.69
---------	------

Bioaccumulative potential	Not established.
---------------------------	------------------

### ALPHA-TERPINEOL (98-55-5)

Bioaccumulative potential	Not established.
---------------------------	------------------

### CAMPHENE (79-92-5)

BCF fish 1	922 mg/l - 56 d - Cyprinus carpio (Carp) - not significantly accumulate
------------	---

### THYMOL (89-83-8)

Log Kow	3.3
---------	-----

Bioaccumulative potential	Not established.
---------------------------	------------------

### CARVACROL (499-75-2)

Log Kow	3.49
---------	------

Bioaccumulative potential	Not established.
---------------------------	------------------

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### P-CYMENE (99-87-6)

Log Kow	4.1
---------	-----

### GAMMA-TERPINENE (99-85-4)

Bioaccumulative potential	Not established.
---------------------------	------------------

### LINALOOL (78-70-6)

Log Pow	2.97
---------	------

Bioaccumulative potential	Not established.
---------------------------	------------------

### 4-TERPINEOL (562-74-3)

Bioaccumulative potential	Not established.
---------------------------	------------------

### MYRCENE (123-35-3)

Log Kow	4.17
---------	------

Bioaccumulative potential	Not established.
---------------------------	------------------

### BETA-PINENES (127-91-3)

Bioaccumulative potential	Not established.
---------------------------	------------------

### D-LIMONENE (5989-27-5)

Bioaccumulative potential	Not established.
---------------------------	------------------

### ALPHA-TERPINENE (99-86-5)

Log Pow	4.25
---------	------

Bioaccumulative potential	Not established.
---------------------------	------------------

### CAMPHOR (76-22-2)

Bioconcentration factor (BCF REACH)	38
-------------------------------------	----

Log Pow	2.38
---------	------

Log Kow	2.95
---------	------

Bioaccumulative potential	Not established.
---------------------------	------------------

### BETA-CARYOPHYLLENE (87-44-5)

Bioaccumulative potential	Not established.
---------------------------	------------------

### ALPHA-PINENES (80-56-8)

Log Pow	4.834
---------	-------

Bioaccumulative potential	Not established.
---------------------------	------------------

### 12.4. Mobility in soil

#### MOROCCAN THYME OIL CT BORNEOL (NA)

Ecology - soil	Low mobility (soil).
----------------	----------------------

### CAMPHOR (76-22-2)

Log Koc	env. 2.67
---------	-----------

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to contents/container to agreed companies according to national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

### SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

#### 14.1. UN number

UN-No. (ADR)	: UN 2924
UN-No. (IMDG)	: UN 2924
UN-No. (IATA)	: UN 2924

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Transport document description (ADR)	: UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (THYMOL(89-83-8) ; P-CYMENE(99-87-6)), 3 (8), III, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2924 , 3, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2924 , 3, ENVIRONMENTALLY HAZARDOUS

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR)	: 3 (8)
Danger labels (ADR)	: 3, 8



##### IMDG

Transport hazard class(es) (IMDG)	: 3
	:

##### IATA

Transport hazard class(es) (IATA)	: 3
	:

#### 14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

#### 14.6. Special precautions for user

##### Overland transport

Classification code (ADR)	: FC
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: FL

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Special provisions for carriage - Operation (ADR) : S2  
Hazard identification number (Kemler No.) : 38  
Orange plates :

38

2924

Tunnel restriction code (ADR) : D/E

### Transport by sea

No data available

### Air transport

No data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on	Entry title or description
3.	MOROCCAN THYME OIL CT BORNEOL ; ALPHA-TERPINEOL ; EUCALYPTOL ; D-LIMONENE ; LINALOOL ; BETA-PINENES ; 4-TERPINEOL ; ALPHA-TERPINENE ; GAMMA-TERPINENE ; CARVACROL ; MYRCENE ; P-CYMENE	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008
3(a)	MOROCCAN THYME OIL CT BORNEOL ; EUCALYPTOL ; D-LIMONENE ; BETA-PINENES ; ALPHA-TERPINENE ; GAMMA-TERPINENE ; MYRCENE ; P-CYMENE	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	MOROCCAN THYME OIL CT BORNEOL ; ALPHA-TERPINEOL ; D-LIMONENE ; LINALOOL ; BETA-PINENES ; 4-TERPINEOL ; ALPHA-TERPINENE ; GAMMA-TERPINENE ; CARVACROL ; MYRCENE	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	MOROCCAN THYME OIL CT BORNEOL ; D-LIMONENE ; ALPHA-TERPINENE ; P-CYMENE	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
40.	MOROCCAN THYME OIL CT BORNEOL ; CAMPHENE ; EUCALYPTOL ; D-LIMONENE ; CAMPHOR ; BETA-PINENES ; ALPHA-TERPINENE ; GAMMA-TERPINENE ; BORNEOL ; MYRCENE ; P-CYMENE	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

MOROCCAN THYME OIL CT BORNEOL is not on the REACH Candidate List

MOROCCAN THYME OIL CT BORNEOL is not on the REACH Annex XIV List

MOROCCAN THYME OIL CT BORNEOL is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

MOROCCAN THYME OIL CT BORNEOL is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

##### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# MOROCCAN THYME OIL CT BORNEOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
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.

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*