



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

### 1.1 Product identifier

**Trade name:** Oil of thyme, natural

**Article number:** K500

**CAS Number:**

84776-98-7

**EC number:**

284-023-3

### Registration number

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

No further relevant information available.

### Application of the substance / the mixture

Laboratory chemical

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

#### Manufacturer/Supplier:

Carl Roth GmbH + Co. KG

Schoemperlenstraße 3-5

76185 Karlsruhe

Germany

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

E-Mail: [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

**Further information obtainable from:** Department Health, Safety and Environment

### 1.4 Emergency telephone number:

Poison Centre Munich

Telefon +49/(0)89 19240

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

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

Flam. Liq. 3	H226	Flammable liquid and vapour.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Skin Corr. 1B	H314	Causes severe skin burns and eye damage.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
Acute Tox. 4	H302	Harmful if swallowed.
Skin Sens. 1	H317	May cause an allergic skin reaction.

#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC

C; Corrosive

R34: Causes burns.

Xn; Harmful

R22-65: Harmful if swallowed. Harmful: may cause lung damage if swallowed.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 2)

**Trade name: Oil of thyme, natural**

(Contd. of page 1)

R10: Flammable.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

**Hazard pictograms****Signal word** Danger**Hazard statements**

H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H304 May be fatal if swallowed and enters airways.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P273 Avoid release to the environment.  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

**Additional information:**

-

**2.3 Other hazards**

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.  
**vPvB:** Not applicable.

### 3 Composition/information on ingredients

**3.1 Chemical characterization: Substances**

**CAS No. Description**  
 84776-98-7 Oil of Thyme

**Identification number(s)**  
**EC number:** 284-023-3

(Contd. on page 3)

**Trade name: Oil of thyme, natural**

(Contd. of page 2)

**4 First aid measures****4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.  
First Aider: Pay attention to self-protection!

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for 10 minutes under running water. Then consult a doctor.

**After swallowing:**

Rinse out mouth and drink a glass of water. Do not induce vomiting.  
In case of spontaneous vomiting: Risk of aspiration. Pulmonary failure possible.  
Call for a doctor immediately.

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

Allergic reactions  
Irritation and corrosion

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

No further relevant information available.

**5 Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:**

For this substance/mixture no limitations of extinguishing agents are given.

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

In case of fire, the following can be released:

In the event of fire development of hazardous combustion gases or vapours possible.  
Carbon monoxide and carbon dioxide

**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

**Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

(Contd. on page 4)

**Trade name: Oil of thyme, natural**

(Contd. of page 3)

Prevent fire-fighting water from entering surface water or groundwater.

## 6 Accidental release measures

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

Do not breathe vapour/spray.

Avoid contact with the eyes and skin.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Evacuate the danger area, observe emergency procedures, consult an expert.

### 6.2 Environmental precautions

Do not allow to enter sewers/ground water or penetrate the soil.

Keep contaminated washing water and dispose of appropriately.

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

Absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).

Dispose of the material collected according to regulations.

Ensure adequate ventilation.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

### 7.1 Precautions for safe handling

Do not spray on an open flame or other ignition source.

Keep containers, equipment and working place clean.

Handling corresponding to laboratory safety guidelines.

Ensure good ventilation/exhaustion at the workplace.

#### Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

#### Storage:

#### Requirements to be met by storerooms and receptacles:

No special requirements.

#### Information about storage in one common storage facility:

Store away from foodstuffs.

#### Further information about storage conditions:

Keep container tightly sealed.

**Recommended storage temperature:** 15 - 25 °C

### 7.3 Specific end use(s)

No further relevant information available.

(Contd. on page 5)

**Trade name: Oil of thyme, natural**

(Contd. of page 4)

## 8 Exposure controls/personal protection

**Additional information about design of technical facilities:**

No further data; see item 7.

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:** Not required.**Additional information:**

The lists valid during the making were used as basis.

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

**Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Recommended filter typ:

A2

**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

Nitrile, thickness &gt;0,3 mm.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**Value for the permeation: Level  $\geq 6$ 

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**As protection from splashes gloves made of the following materials are suitable:**Nitrile rubber, thickness:  $\geq 0.11$  mm

(Contd. on page 6)

Trade name: Oil of thyme, natural

(Contd. of page 5)

Eye protection:



Tightly sealed goggles

Body protection:

Protective work clothing

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Appearance:

Form:	Fluid
Colour:	Light brown
Odour:	Characteristic
Odour threshold:	No information available.

pH-value: No information available.

#### Change in condition

Melting point/Melting range:	Undetermined. No information available.
Boiling point/Boiling range:	No information available.

Flash point: 53 °C

Flammability (solid, gaseous): No information available

Ignition temperature: No information available

Decomposition temperature: No information available

Self-igniting: No information available

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

#### Explosion limits:

Lower:	No information available.
Upper:	No information available.

Oxidizing properties: No information available.

Vapour pressure: No information available

Density at 20 °C:	0.92 g/cm <sup>3</sup>
Vapour density	No information available
Evaporation rate	No information available

Solubility in / Miscibility with water: Insoluble.

Partition coefficient (n-octanol/water): No information available

#### Viscosity:

Dynamic:	No information available.
Kinematic:	No information available.

(Contd. on page 7)

**Trade name: Oil of thyme, natural**

(Contd. of page 6)

**9.2 Other information**

No further relevant information available.

**10 Stability and reactivity****10.1 Reactivity**

Fumes can combine with air to form an explosive mixture.

**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

No information available.

**10.4 Conditions to avoid**

No information available.

**10.5 Incompatible materials:**

No information available.

**10.6 Hazardous decomposition products:**

In case of fire: see item 5.

**11 Toxicological information****11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:**

Quantitative data on the toxicity of this product are not available.

**Primary irritant effect:****on the skin:**

Caustic effect on skin and mucous membranes.

**on the eye:**

Strong caustic effect.

**after inhalation:**

Vapours may cause irritative symptoms.

**Sensitization:**

Sensitization possible through skin contact.

**CMR effects:****Germ cell mutagenicity:**

No information available.

**Carcinogenicity:**

No information available.

**Reproductive toxicity:**

No information available.

**Aspiration hazard:**

May be fatal if swallowed and enters airways.

**Specific target organ toxicity - single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

(Contd. on page 8)

**Trade name: Oil of thyme, natural**

(Contd. of page 7)

**Specific target organ toxicity - repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Additional toxicological information:****After swallowing:**

burns in the mouth, throat, oesophagus and gastrointestinal tract, risk of perforation in the oesophagus and gastrointestinal tract.

Damage of lungs.

Risk of aspiration

**Further information:**

The product should be handled with the care usual when dealing with chemicals.

**12 Ecological information****12.1 Toxicity****Aquatic toxicity:**

Quantitative data on the ecological effect of this product are not available.

**12.2 Persistence and degradability**

No further relevant information available.

**12.3 Bioaccumulative potential**

No further relevant information available.

**12.4 Mobility in soil**

No further relevant information available.

**Ecotoxicological effects:****Remark:**

Do not allow to enter waters, waste water, or soil!

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Also poisonous for fish and plankton in water bodies.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects**

No further relevant information available.

**13 Disposal considerations****Waste treatment methods****Recommendation**

This material and its container must be disposed of as hazardous waste.

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

**Uncleaned packaging:****Recommendation:**

Disposal according to official regulations.

(Contd. on page 9)



**Safety data sheet**  
according to Regulation (EC) No. 1907/2006



Printing date 10.12.2013






Version number 1

Revision: 10.12.2013

Trade name: Oil of thyme, natural

(Contd. of page 8)

## 14 Transport information

<b>14.1 UN-Number</b>	
<b>ADR, IMDG, IATA</b>	UN2924
<b>14.2 UN proper shipping name</b>	
<b>ADR</b>	2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Oil of Thyme), ENVIRONMENTALLY HAZARDOUS
<b>IMDG</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Oil of Thyme), MARINE POLLUTANT
<b>IATA</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Oil of Thyme)
<b>14.3 Transport hazard class(es)</b>	
<b>ADR, IMDG</b>	
  	
<b>Class</b>	3 Flammable liquids.
<b>Label</b>	3+8
<b>IATA</b>	
 	
<b>Class</b>	3 Flammable liquids.
<b>Label</b>	3+8
<b>14.4 Packing group</b>	
<b>ADR, IMDG, IATA</b>	III
<b>14.5 Environmental hazards:</b>	Environmentally hazardous substance, liquid; Marine Pollutant
<b>Marine pollutant:</b>	Symbol (fish and tree)
<b>Special marking (ADR):</b>	Symbol (fish and tree)
<b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
<b>Danger code (Kemler):</b>	38
<b>EMS Number:</b>	F-E,S-C
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Transport category</b>	3
<b>Tunnel restriction code</b>	D/E

(Contd. on page 10)

# Safety data sheet

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



Printing date 10.12.2013

Version number 1

Revision: 10.12.2013

**Trade name: Oil of thyme, natural**

(Contd. of page 9)

**UN "Model Regulation":**UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
(Oil of Thyme), ENVIRONMENTALLY HAZARDOUS,  
3 (8), III

### 15 Regulatory information

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

##### National regulations:

##### Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.  
Employment restrictions concerning juveniles must be observed.

##### Breakdown regulations:

##### Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing MSDS:** Department: Health, Safety and Environment

**Contact:** Herr Heine

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LD50\*: Lethal Dose, 50 percent (Not relevant for classification)

LD50\*: Lethal Concentration, 50 percent (Not relevant for classification)

\* **Data compared to the previous version altered.**