



**Trade name:** Tea Tree Oil (Melaleuca alternifolia)

**Current version :** 8.0.0, issued: 07.12.2018

**Replaced version:** 7.0.0, issued: 11.09.2018

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

#### Tea Tree Oil (Melaleuca alternifolia)

Substance name Melaleuca alternifolia, ext.  
REACH registration no. 01-2120743651-57-0018

**Identification numbers**

CAS no. 85085-48-9  
EC no. 285-377-1

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

**Relevant identified uses of the substance or mixture**

Raw material for cosmetic products  
cleaning compound

**Uses advised against**

No data available.

**Reference to relevant exposure scenarios**

For an overview of the exact titles of the relevant exposure scenarios please refer to section 16 of this SDS.

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

**Address**

Main Camp Natural Extracts Pty Ltd  
840 Main Camp Road  
Rappville NSW 2469  
AUSTRALIA

Telephone no. + 61 2 6661 7966  
Fax no. + 61 2 6661 7965

**Advice on Safety Data Sheet**

info@mcne.com.au

**Only representative according to art. 8 Regulation (EC) 1907/2006**

**Address**

UMCO Umwelt Consult GmbH  
Georg-Wilhelm-Strasse 183  
21107 Hamburg  
GERMANY

Telephone no. +49 (0) 40 / 79 02 36 300  
Fax no. +49 (0) 40 / 79 02 36 357

### 1.4 Emergency telephone number

For medical advice (in German and English):  
+49 (0)551 192 40 (Gif tinformat ionszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Acute Tox. 4; H302  
Acute Tox. 4; H332  
Aquatic Chronic 2; H411  
Asp. Tox. 1; H304  
Flam. Liq. 3; H226  
Skin Irrit. 2; H315

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## Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.

## 2.2 Label elements

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

#### Product identifier

85085-48-9 (Melaleuca alternifolia, ext.)

#### Hazard pictograms



GHS02



GHS07



GHS08



GHS09

#### Signal word

Danger

#### Hazard statement(s)

H226	Flammable liquid and vapour.
H302+H332	Harmful if swallowed or if inhaled
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statement(s)

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use alcohol-resistant foam or extinguishing powder to extinguish.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

## 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Chemical characterization

Substance name Melaleuca alternifolia, ext.

#### Identification numbers

CAS no.	85085-48-9
EC no.	285-377-1

### 3.2 Mixtures

Not applicable. The product is not a mixture.



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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

#### After skin contact

When in contact with the skin, clean with soap and water.

#### After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

#### After ingestion

Do not induce vomiting - aspiration hazard. Call in a physician immediately and show him the Safety Data Sheet. Never give anything by mouth to an unconscious person.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Extinguishing powder; Water spray jet; Alcohol-resistant foam

#### Unsuitable extinguishing media

High power water jet

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

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Heat causes increase in pressure and risk of bursting. Wear protective clothing. Cool endangered containers with water spray jet.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Keep away sources of ignition. Avoid contact with skin, eyes and clothing.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

### 6.4 Reference to other sections

No data available.



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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as it is possible by the state of the art.

#### General protective and hygiene measures

Observe the usual precautions when handling chemicals. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

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

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from light. Protect from exposure to air/oxygen.

#### Requirements for storage rooms and vessels

Store product in closed containers. Always keep in containers of same material as the original one.

#### Advice on storage assembly

Do not store together with: Oxidizing agents; Acids

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Melaleuca alternifolia, ext.			85085-48-9 285-377-1	
	dermal	Long term (chronic)	systemic	4.356	mg/kg/day
	dermal	Short term (acut)	systemic	4.356	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.658	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	0.658	mg/m <sup>3</sup>

##### DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Melaleuca alternifolia, ext.			85085-48-9 285-377-1	
	oral	Long term (chronic)	systemic	0.067	mg/kg/day
	oral	Short term (acut)	systemic	0.067	mg/kg/day
	dermal	Long term (chronic)	systemic	1.556	mg/kg/day
	dermal	Short term (acut)	systemic	1.556	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.296	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	0.296	mg/m <sup>3</sup>



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## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

#### Other

Normal chemical work clothing.

### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>	
liquid	
colourless to slightly yellow	
<b>Odour</b>	
characteristic	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Not applicable	
<b>Boiling point / boiling range</b>	
Value	97 - 220 °C
<b>Melting point / melting range</b>	
Value	-22 °C
<b>Setting point / solidification range</b>	
Value	-22 °C
<b>Decomposition point / decomposition range</b>	
No data available	
<b>Flash point</b>	
Value	54 °C
Method	closed cup
<b>Ignition temperature</b>	
Value	72 °C
<b>Auto-ignition temperature</b>	
Value	252 °C

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<b>Oxidising properties</b>	
No data available	
<b>Explosive properties</b>	
No data available	
<b>Flammability (solid, gas)</b>	
No data available	
<b>Lower flammability or explosive limits</b>	
No data available	
<b>Upper flammability or explosive limits</b>	
No data available	
<b>Vapour pressure</b>	
Value	2100 Pa
<b>Vapour density</b>	
No data available	
<b>Evaporation rate</b>	
No data available	
<b>Relative density</b>	
No data available	
<b>Density</b>	
Value	0.885 - 0.906 g/cm <sup>3</sup>
Reference temperature	20 °C
<b>Solubility in water</b>	
Comments	insoluble
<b>Solubility(ies)</b>	
No data available	
<b>Partition coefficient: n-octanol/water</b>	
No data available	
<b>Viscosity</b>	
Value	2.54 mPa*s
Reference temperature	20 °C
Type	dynamic

## 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Plastics may be corroded. Keep away sources of ignition. Protect from exposure to air/oxygen.

### 10.5 Incompatible materials

strong oxidizing agents; Prolonged exposure to air will result in gradual resinification and deterioration. Acids



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## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	Melaleuca alternifolia, ext.	85085-48-9	285-377-1
LD50		1691	mg/kg bodyweight
Species		rat	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Melaleuca alternifolia, ext.	85085-48-9	285-377-1
LD50		> 2000	mg/kg bodyweight
Species		rabbit	
Method		OECD 402	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	Melaleuca alternifolia, ext.	85085-48-9	285-377-1
LC50		4.78	mg/l
Duration of exposure		4	h
State of aggregation		Dust/mist	
Species		rat	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	Melaleuca alternifolia, ext.	85085-48-9	285-377-1
Species		rabbit	
Source		ECHA	
Evaluation		irritant	
Evaluation/classification		Based on available data, the classification criteria are met.	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	Melaleuca alternifolia, ext.	85085-48-9	285-377-1
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	Melaleuca alternifolia, ext.	85085-48-9	285-377-1
Route of exposure		Skin	
Species		guinea pig	
Source		ECHA	
Evaluation		sensitizing	
Evaluation/classification		Based on available data, the classification criteria are met.	

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<b>Germ cell mutagenicity</b>
No data available
<b>Reproduction toxicity</b>
No data available
<b>Carcinogenicity</b>
No data available
<b>STOT - single exposure</b>
No data available
<b>STOT - repeated exposure</b>
No data available
<b>Aspiration hazard</b>
No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	<b>Melaleuca alternifolia, ext.</b>	<b>85085-48-9</b>	<b>285-377-1</b>
	LL50	7.75	mg/l
	Duration of exposure	96	h
	Species	Oncorhynchus mykiss	
	Method	OECD 203	
	Source	ECHA	

<b>Toxicity to fish (chronic)</b>			
No data available			

<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
1	<b>Melaleuca alternifolia, ext.</b>	<b>85085-48-9</b>	<b>285-377-1</b>
	EL50	13.6	mg/l
	Duration of exposure	48	h
	Species	Daphnia magna	
	Method	OECD 202	
	Source	ECHA	

<b>Toxicity to Daphnia (chronic)</b>			
No data available			

<b>Toxicity to algae (acute)</b>			
No	Substance name	CAS no.	EC no.
1	<b>Melaleuca alternifolia, ext.</b>	<b>85085-48-9</b>	<b>285-377-1</b>
	ErC50	30.8	mg/l
	Duration of exposure	72	h
	Species	Pseudokirchneriella subcapitata	
	Method	OECD 201	
	Source	ECHA	



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## Toxicity to algae (chronic)

No data available

## Bacteria toxicity

No data available

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

### 12.7 Other information

#### Other information

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1169
Proper shipping name	EXTRACTS, AROMATIC, LIQUID
Technical name	Tea tree oil
Tunnel restriction code	D/E
Label	3
Environmentally hazardous substance mark	Symbol "fish and tree"

### 14.2 Transport IMDG

Class	3
Packing group	III
UN number	UN1169
Proper shipping name	EXTRACTS, AROMATIC, LIQUID
Technical name	Tea tree oil
EmS	F-E, S-D
Label	3
Marine pollutant mark	Symbol "fish and tree"

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## 14.3 Transport ICAO-TI / IATA

Class	3
Packing group	III
UN number	UN1169
Proper shipping name	Extracts, aromatic, liquid
Technical name	Melaleuca alternifolia, ext.
Label	3

## 14.4 Other information

No data available.

## 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

## 14.6 Special precautions for user

No data available.

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

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

In accordance with the Reach regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

##### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

##### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3, 40
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##### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E2, P5c
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If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

### 15.2 Chemical safety assessment

No data available.

## SECTION 16: Other information

#### **Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

#### **Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H302	Harmful if swallowed.
H332	Harmful if inhaled.

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**List of existing exposition scenarios**

ES001            Formulation and (re)packing of substance and mixtures - industrial use  
ES002            Use in cosmetics - consumer use  
ES003            Use as fragrance - consumer use

**Department issuing safety data sheet**

UMCO GmbH

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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