



# Essential Oils, Skincare & Aromatherapy Products

## SAFETY DATA SHEET

### 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: **Tea Tree Essential Oil**

SUPPLIER: Celtic Tree Oils, Carlingford, Co. Louth, Ireland, A91 D86V

PRODUCT NUMBER: **51**

CAS NUMBER: 85085-48-9 / 8022-72-8 / 68647-73-4

EC NUMBER: 285-377-1

INCI: Melaleuca Alternifolia Leaf Oil

IDENTIFIED USES: No additional data available.

BIOLOGICAL DEFINITION: Melaleuca Alternifolia Leaf Oil is the oil distilled from the leaves of the Tea Tree, Melaleuca alternifolia, Myrtaceae.

### 2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### CLASSIFICATION (EC 1272/2008):

- PHYSICAL HAZARDS: Flam. Liq. 3 - H226
- HEALTH HAZARDS: Acute Tox. 4 - H302.  
Skin Irrit. 2 - H315.  
Eye Irrit. 2 - H319.  
Skin Sens. 1 - H317.  
Asp. Tox. 1 - H304.
- ENVIRONMENTAL HAZARDS: Aquatic Chronic 2 - H411.

#### LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

HAZARD STATEMENTS:

DANGER

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H401 Toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

SDS: **51 Tea Tree Essential Oil**

Compiled by: Johndan Chilcott, Regulatory Affairs | Date: 14/10/2019 - Version: 5

PRECAUTIONARY STATEMENTS: P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P331 Do NOT induce vomiting.  
P391 Collect spillage.

SUPPLEMENTARY PRECAUTIONARY STATEMENTS: P262 Do not get in eyes, on skin, or on clothing.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/ bond container and receiving equipment.  
P241 Use explosion-proof electrical equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing vapour/ spray.  
P264 Wash contaminated skin thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P321 Specific treatment (see medical advice on this label).  
P332+P313 If skin irritation occurs: Get medical advice/ attention.  
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.  
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/ container in accordance with national regulations.

CONTAINS: gamma-Terpinene, alpha-Terpinene, Terpinolene, alpha-Pinene, p-Cymene, d-Limonene

### **3: COMPOSITION/INFORMATION ON INGREDIENTS**

**>35.0% Terpinen-4-ol**

CAS NUMBER: 562-74-3

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 209-235-5

Acute Tox. 4 -H302

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

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**10.0 – 28.0% gamma-Terpinene (p-mentha-1,4-diene)**

CAS NUMBER: 99-85-4

EC NUMBER: 202-794-6

CLASSIFICATION (EC 1272/2008):

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

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**5.0 – 13.0% alpha-Terpinene**

CAS NUMBER: 99-86-5

EC NUMBER: 202-795-1

CLASSIFICATION (EC 1272/2008):

Flam. Liq. 3 - H226

Acute Tox. 4 - H302

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

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**1.0 – 5.0% Terpinolene**

CAS NUMBER: 586-62-9

EC NUMBER: 209-578-0

CLASSIFICATION (EC 1272/2008):

Asp. Tox. 1- H304

Skin Sens. 1B - H317

Aquatic Acute 1- H400,

Aquatic Chronic 1- H410

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**1.5 – 8.0% alpha-Terpineol (p-menth-1-en-8-ol)**

CAS NUMBER: 98-55-5

EC NUMBER: 202-680-6

CLASSIFICATION (EC 1272/2008):

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

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**1.0 – 6.0% alpha-Pinene**

CAS NUMBER: 80-56-8

EC NUMBER: 201-291-9

CLASSIFICATION (EC 1272/2008):

Flam. Liq. 3 - H226

Acute Tox. 4 H302

Asp. Tox. 1 - H304

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Aquatic Acute 1- H400

Aquatic Chronic 1- H410

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**0.5-12.0% p-Cymene**

CAS NUMBER: 99-87-6

EC NUMBER: 202-796-7

CLASSIFICATION (EC 1272/2008):

Flam. Liq. 3 - H226

Skin Irrit. 2 - H315

Eye Irrit.2 – H319

Asp. Tox. 1 - H304

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

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**<5.0% 1.8-cineole**

CAS NUMBER: 470-82-6

EC NUMBER: 207-431-5

CLASSIFICATION (EC 1272/2008):

Flam. Liq. 3 - H226

Skin Sens. 1- H317

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**< 5.0% d-Limonene**

CAS NUMBER: 5989-27-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 227-813-5

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

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The full text for all hazard statements is displayed in Section 16.

**4: FIRST AID MEASURES**

INHALATION:	Move the exposed person to fresh air. Seek medical attention if any discomfort continues.
INGESTION:	Do not induce vomiting. Immediately rinse mouth and provide fresh air. Get medical attention.
SKIN CONTACT:	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
EYE CONTACT:	Remove victim immediately from source of exposure. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
GENERAL INFORMATION:	No additional data available
NOTES FOR THE DOCTOR:	Treat symptomatically.

**5: FIREFIGHTING MEASURES**

EXTINGUISHING MEDIA RECOMMENDED:	Carbon Dioxide (CO <sub>2</sub> ), dry chemical. Do not use a direct stream of water to extinguish.
SPECIAL MEASURES:	When heated to decomposition, it emits acrid smoke as well as carbon monoxide and carbon dioxide.
EXTINGUISHING PROCEDURES:	According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks.

**6: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS:	Wear protective clothing as described in Section 8 of this safety data sheet.
ENVIRONMENT PRECAUTIONS:	Do not discharge into drains, water courses or onto the ground. In case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local and national legislation.
CLEANING UP METHODS FOR SPILLAGES:	Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the de-contaminator on the remains in an opened container and let it act for a few days until no further reaction is produced.

## **7: HANDLING AND STORAGE**

USAGE PRECAUTIONS:

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS:

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.

## **8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

CONTROL PARAMETERS

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### **Alpha- Terpinolene (CAS: 586-62-9)**

#### DNEL

Workers - Inhalation;	Long term systemic effects: 3.6 mg/m <sup>3</sup>
Workers - Dermal;	Long term systemic effects: 0.52 bw/day, mg/kg
General population - Inhalation;	Long term systemic effects: 0.9 mg/m <sup>3</sup>
General population - Dermal;	Long term systemic effects: 0.26 bw/day, mg/kg
General population - Oral;	Long term systemic effects: 0.26 bw/day, mg/kg

#### PNEC

- Fresh water;	Short term 0.634 mg/l
- Intermittent release,	Fresh water; Short term 0.634 mg/l
- Marine water;	Short term 0.063 mg/l
- STP;	Short term 0.2 mg/l
- Sediment (Fresh water);	Short term 14.7 mg/kg
- Sediment (Marine water);	Short term 14.7 mg/kg
- Soil;	Short term 29.1 mg/kg

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### **p-menth-1-en-8-ol (CAS: 98-55-5)**

#### PNEC

- Fresh water;	Short term 68 mg/l
- Marine water;	Short term 6.8 mg/l
- STP;	Short term 2.6 mg/l
- Sediment (Fresh water);	Short term 1.85 mg/kg
- Sediment (Marine water);	Short term 0.185 mg/kg
- Soil;	Short term 0.329 mg/kg

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### **Alpha Pinene (CAS: 80-56-8)**

#### DNEL

Workers - Inhalation;	Long term systemic effects: 3.8 mg/m <sup>3</sup>
Workers - Dermal;	Long term systemic effects: 0.54 mg/kg, bw/day
General population - Inhalation;	Long term systemic effects: 0.67 mg/m <sup>3</sup>
General population - Dermal;	Long term systemic effects: 0.19 mg/kg, bw/day
General population - Oral;	Long term systemic effects: 0.19 mg/kg, bw/day

#### PNEC

- Fresh water;	Short term 0.606 mg/l
- Fresh water,	Intermittent release; 3.03 mg/l
- Marine water;	Short term 0.061 mg/l
- Intermittent release,	Marine water; 0.303 mg/l
- STP;	Short term 0.2 mg/l
- Sediment (Fresh water);	Short term 157 mg/kg
- Sediment (Marine water);	Short term 15.7 mg/kg
- Soil;	Short term 31.7 mg/kg

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**1, 8- cineole (CAS: 470-82-6)****DNEL**

Workers - Inhalation;	Long term systemic effects: 7.05 mg/m <sup>3</sup>
Workers - Dermal;	Long term systemic effects: 2 mg/kg, bw/day
General population - Inhalation;	Long term systemic effects: 1.74 mg/m <sup>3</sup>
General population - Dermal;	Long term systemic effects: 1 bw/day, mg/kg
General population - Oral;	Long term systemic effects: 600 bw/day, mg/kg

**PNEC**

- Fresh water;	Short term 5.7 mg/l
- Intermittent release,	Fresh water; 0.57 mg/l
- Marine water;	Short term 5.7 mg/l
- STP;	Short term 10 mg/l
- Sediment (Fresh water);	Short term 1.425 mg/kg
- Sediment (Marine water);	Short term 0.142 mg/kg
- Soil;	Short term 0.25 mg/kg

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**PROTECTIVE EQUIPMENT:****PROCESS CONDITIONS**

Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation.

**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

**RESPIRATORY EQUIPMENT**

If ventilation is insufficient, suitable respiratory protection must be provided.

**HAND PROTECTION**

Protective gloves must be used if there is a risk of direct contact or splash.

**EYE PROTECTION**

Wear splash-proof eye goggles to prevent any possibility of eye contact.

**OTHER PROTECTION**

Provide eyewash station.

**HYGIENE MEASURES**

Good personal hygiene practices are always advisable, especially when working with chemicals / oils.

**PERSONAL PROTECTION**

Avoid inhalation and contact with skin and eyes. Do not eat or drink whilst in the work area.

**SKIN PROTECTION**

Avoid skin contact. Wear suitable protective clothing.

**ENVIRONMENTAL EXPOSURE CONTROLS**

Do not allow to enter waterways.

## **9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Mobile liquid, colourless to pale yellow.
COLOUR	Colourless to pale yellow.
ODOUR	Characteristic – powerful, warm, spicy.
RELATIVE DENSITY	Approx. 0.896 @ 20°C
FLASH POINT (°C)	57.0
REFRACTIVE INDEX	Approx. 1.476 @ 20°C
MELTING POINT (°C)	No data available.
BOILING POINT (°C)	97.0 – 220.0
VAPOUR PRESSURE	No data available.
SOLUBILITY IN WATER @20°C	Insoluble.

## **10: STABILITY AND REACTIVITY**

REACTIVITY:	No additional data available.
STABILITY:	This substance is stable under the recommended handling and storage.
POSSIBLE HAZARDOUS REACTIONS:	No additional data available.
CONDITIONS TO AVOID:	Avoid heat, flames and other sources of ignition.
INCOMPATIBLE MATERIALS	Strong acids, alkali or oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Hydrocarbons.

## **11: TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY:	
- INGESTION:	Harmful if swallowed
- ORAL:	LD <sub>50</sub> 1900 mg/kg, Oral, Rat
- DERMAL	LD <sub>50</sub> >5000 mg/kg, Dermal, Rabbit
SKIN CORROSION / IRRITATION	Causes skin irritation. May cause redness, irritation or oedema.
SERIOUS EYE DAMAGE / IRRITATION	Causes serious eye irritation.
RESPIRATORY OR SKIN SENSITISATION	May cause an allergic skin reaction. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
GERM CELL MUTAGENICITY	Not classified.
CARCINOGENICITY	Not classified.
REPRODUCTIVE TOXICITY	Not classified.
STOT-SINGLE EXPOSURE	Not classified.
STOT-REPEATED EXPOSURE	Not classified.
ASPIRATION HAZARD	May be fatal if swallowed and enters airways.
PHOTO-TOXICITY	No additional data available.
OTHER INFORMATION	No additional data available.

## **12: ECOLOGICAL INFORMATION**

TOXICITY:	Toxic to aquatic life with long lasting effects.
PERSISTENCE AND DEGRADABILITY:	The product is readily biodegradable.
BIOACCUMULATIVE POTENTIAL:	No additional data available.
MOBILITY IN SOIL:	No additional data available.
RESULTS OF PBT AND vPvB ASSESSMENT:	No additional data available.
PRECAUTIONS:	Do not allow product to enter streams, sewers or other waterways.

### **13: DISPOSAL CONSIDERATIONS**

DISPOSAL METHODS:

Dispose of in compliance with all local and national regulations.

### **14: TRANSPORT INFORMATION**

UN No. ROAD:

UN 1169

UN No. SEA:

UN 1169

UN No. AIR:

UN 1169

PROPER SHIPPING NAME:

UN1169 EXTRACTS, AROMATIC, LIQUID (TEA TREE)

#### **TRANSPORT HAZARD CLASS(ES):**

- ADR/RID/ADN CLASS: 3
- IMDG CLASS: 3
- ICAO CLASS: 3



#### **PACKING GROUP:**

- ADR/RID/ADN PACKING GROUP: III
- IMDG PACKING GROUP: III
- ICAO PACKING GROUP: III

ENVIRONMENTAL HAZARDS:

Environmentally Hazardous  
Substance/Marine Pollutant



TRANSPORT IN BULK ACCORDING TO ANNEX II  
OF MARPOL73/78 AND THE IBC CODE:

No additional data available.

#### **SPECIAL PRECAUTIONS FOR USER:**

- EMS: F-E, S-D
- EMERGENCY ACTION CODE: 3Y
- ADR TRANSPORT CATEGORY: 3
- HAZARD IDENTIFICATION NUMBER  
(ADR/RID): 30
- TUNNEL RESTRICTION CODE: (D/E)

### **15: REGULATORY INFORMATION**

STATUTORY INSTRUMENTS:

The Chemicals (Hazard Information and Packaging for Supply)  
Regulations 2009 (S.I 2009 No. 716).

EU LEGISLATION:

Workplace Exposure Limits EH40. CHIP for everyone HSG (108).

GUIDANCE:

Regulation (EC) No 1907/2006 of the European Parliament and of  
the Council of 18 December 2006 concerning the Registration,  
Evaluation, Authorisation and Restriction of Chemicals (REACH),  
establishing a European Chemicals Agency, amending Directive  
1999/45/EC and repealing Council Regulation (EEC) No 793/93 and  
Commission Regulation (EC) No 1488/94 as well as Council  
Directive 76/769/EEC and Commission Directives 91/155/EEC,  
93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.



## **16: OTHER INFORMATION**

HAZARD AND/OR PRECAUTIONARY  
STATEMENTS IN FULL:

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
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.

### **Q.C. REQUIREMENTS.**

In-line with general product specification. Always satisfy suitability for specific application.  
Retest after 6 months.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.