



**MATERIAL DATA SAFETY SHEET: Tea Tree Oil**  
Version: 1.0 Issued: 27<sup>th</sup> March 2018  
earthYard Pty Ltd : ABN 66 603 706 832

**HAZARDOUS ACCORDING TO WORKSAFE CRITERIA**

**SECTION 1 – MATERIAL & SUPPLY COMPANY IDENTIFICATION**

**1.1 Product Identifiers**

Product Name: TEA TREE OIL  
CAS No.: 68647-73-4  
EINECS: 285-377-1

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

Application of the substance / preparation: Flavour and fragrance ingredient

**1.3 Manufacturer / Supplier Details**

**Supplier:** EarthYard Pty Ltd  
**ABN:** 66 603 706 832  
**Address:** Unit 2, 1-3 Sommerville Circuit, Emu Plains, NSW Australia 2774  
**Telephone:** 02 4735 8594

**1.4 Information in case of emergency**

Emergency Telephone: 02 4735 5379 (Office Hours 9.00am - 5.00pm Mon-Fri)  
Email: enquiries@earthyard.com.au

**SECTION 2 - HAZARDOUS IDENTIFICATION**

**2.1 Classification of the substance / preparation**

*Classification according to Regulation (EC) No. 1272/2008*  
Physical Hazards: FL 3  
Health Hazards: AH 1, ATO 5, SCI 2, SS 1  
Environmental Hazards: EH-A 2, EH-C 2

**2.2 Label Elements**

Labeling according to Regulation (EC) No. 1272/2008

**GHS Signal Word**

DANGER



**Hazard statements**

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 reaction  
H401 Toxic to aquatic life  
H411 Toxic to aquatic life with long lasting effects

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P273 Avoid release to the environment  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.



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P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.  
P501 Dispose of contents/container in accordance with local regulations

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Chemical Identification

**Description:** *Melaleuca alternifolia leaf oil*  
**CAS No.:** 68647-73-4  
**EINECS No.:** 285-377-1

#### 3.2 Hazardous components

Component	CAS No.	Regulation (EC) No 1272/2008	% by weight
gamma-terpinene	99-85-4	AH 1, ATO 5, FL3, SCI 1	<28.0%
1,8-cineole	470-82-6	ATO 4, FL3, SCI 3, SS 1	<15.0%
a-terpinene	99-86-5	AH 1, ATO 4, EH-A 2, EH-C2 FL 3, SCI 3	<13.0%
p-cymene	99-87-6	AH 1, ATO 5, EH-A 2, EH-C 2 FL 3, SCI 3	<12.0%
Pinenes ( $\alpha$ and $\beta$ )	80-56-8	AH 1, ATO 5, EH-A 1, EH-C 1 FL 3, SCI 1, SS 2	<8.0%
Limonene	5989-27-5	AH 1, ATO 5, EH-A 1, EH-C 1, FL 3, SCI 2, SS 1	$\leq$ 4.0 %
Terpinen-4-ol	562-74-3	ATD 5, ATO 4, EDI 2A, EH-A 3 FL 4, SCI 2	>30.0%

### SECTION 4 - FIRST AID

#### 4.1 Description of first aid measures

**Eye Contact:** Check for and remove any contact lenses. Immediately wash thoroughly with soft, clean water for 15 minutes while holding the eyelids open. Cold water may be used. If symptoms persist, seek medical attention.

**Skin Contact:** Remove any contaminated clothing and footwear. Clean before re-use. Wash affected areas thoroughly with soap and water for at least 15 minutes. In the event of an allergic reaction, seek medical attention

**Inhalation:** Remove individual from the exposure to fresh air. Contact a physician as necessary.

**Ingestion:** Not an expected route of exposure. If swallowed, DO NOT induce vomiting. Wash out mouth with water. Contact a physician or local poison centre immediately.

**Contact Point:** Poisons Information Centre Sydney Telephone: 131126

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

**Eye contact:** May cause eye irritation and corneal damage if not immediately rinsed out.  
**Skin Contact:** Known photosensitizer.  
**Inhalation:** Not specified  
**Ingestion:** Not specified

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

No further relevant information available

### SECTION 5 - FIRE FIGHTING MEASURES

#### 5.1 Extinguishing Media

**Suitable extinguishing agents:** Carbon Dioxide; Dry Chemical; Water spray; Alcohol-resistant foam.



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**Unsuitable Extinguishing Media:** Water jet

**5.2 Special hazards arising from the substance or mixture**  
None known

**5.3 Advice for firefighters**  
Protective equipment: Wear self-contained respiratory apparatus

**Additional information**

Collect contaminated firefighting water separately to prevent from entering waterways.  
Contact Point: Dial 000 Emergency in case of fire [In Australia]  
or Local Emergency Authority [Out of Australia].

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharge.
- 6.2 Environmental precautions**  
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
- 6.3 Methods and materials for containment and cleaning up**  
Wipe up small spills with absorbent material such as paper cloth. Cover larger spills with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges. Keep away from ignition sources, do not smoke and avoid flames. Dispose of contaminated material in accordance with local government regulations
- 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

**SECTION 7 - HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. Keep away from heat, sparks and open flame. No smoking. Take necessary action to avoid static discharge (which might cause ignition of organic vapors).
- 7.2 Conditions for storage**  
Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from heat.  
**Incompatible products** None known based on information supplied.
- 7.3 Specific end use** No further information available



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### SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### 8.1 Control parameters

No data available

#### 8.2 Exposure Controls

**Respiratory Protection** None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate

**Ventilation Protection** Ensure adequate ventilation to keep exposure levels to a minimum. General exhaust is recommended

**Eye Protection** Use of goggles is recommended

**Protective Gloves** Use of chemical resistant gloves is recommended

**Protective Clothing** Use of chemical resistant clothing is recommended

**Protective Equipment** An eyewash station should be made available

#### 8.3 Special Engineering Controls

None established.

#### 8.4 Other Personal Protection

Consult the following Australian Standards for general advice regarding safety clothing and equipment:

Respiratory Equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS 2919**, Industrial Eye Protection: **AS 1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS 2210**.

**Note** These precautions are for room temperature handling. Use at elevated temperature applications may require additional precautions.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

#### TEST

**Appearance:**

**Odour:**

**Odour Threshold:**

**Specific Gravity:**

**Refractive Index:**

**Optical Rotation:**

**pH:**

**Miscibility in Water:**

**Miscibility in Alcohol:**

**Flash Point:**

**Flammability Limits [as % v/v in Air]**

**Lower Explosion Limit:**

**Upper Explosion Limit:**

**Autoignition Temperature:**

**Melting Point:**

**Boiling Point @ 760 mm Hg:**

**Vapour Pressure @ 760 mm Hg:**

**Vapour Density (air = 1):**

#### SPECIFICATION

Colourless to pale yellow, mobile liquid

Characteristic, aromatic-terpenic

N/A

0.860 - 920 @ 20°C

1.4650 to 1.495 @ 20°C

-5.0° to +15.0°

N/A

Insoluble

Soluble

54°C (Closed cup)

N/A

N/A

Not specified

Not specified

150 - 250°C

Not specified

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### SECTION 10 - STABILITY AND REACTIVITY

#### 10.1 Reactivity

This material presents no significant reactivity hazard



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### 10.2 Stability

Chemically stable material under the recommended storage and handling conditions in Section 7

### 10.3 Possibility of hazardous reactions

When exposed to high temperatures, the substance may release hazardous decomposition products such as carbon monoxide, carbon dioxide, fumes, and nitrogen oxide

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

Strong oxidising agents

### 10.6 Hazardous decomposition products

No dangerous decomposition products expected by intended use

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1 Substance Acute toxicity

No data available.

#### Skin corrosion/irritation

May be irritating to the skin. May cause an allergic reaction by skin contact. See Section 3.

#### Serious eye damage/irritation

May be irritating to eyes. Prompt rinsing and removal of the substance will avoid damage.

#### Respiratory sensitisation

May be fatal if swallowed and enters airways. See EU allergen list in Section 3.

#### Germ cell mutagenicity

Not specified

#### Reproductive toxicity

No significant effects or critical hazards

#### STOT-single exposure

Not specified

#### STOT-related exposure

Not specified

#### Aspiration hazard

May be fatal if swallowed and enters airways. Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

### 11.2 Information on the likely routes of exposure

Skin/scalp contact.

### 11.3 Symptoms related to the physical, chemical, and toxicological characteristics

None known. Irritation of the eye if exposed. Redness of the skin if irritated.

### 11.4 Delayed and immediate effects, and chronic effects from short-term and long-term exposure

Exposure to vapors from this solvent exceeding stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver, and central nervous system. Repeated or prolonged contact with the substance may cause removal of natural oil from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible damage.

## SECTION 12 - ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity



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Toxic to aquatic life, may cause long-term adverse effects. Avoid exposure to marine environments and waterways

**12.2 Persistence and degradability**  
Biodegradation is expected

**12.3 Bio-accumulative potential**  
Bioaccumulation is unlikely

**12.4 Mobility in soil**  
No data available

**12.5 Other adverse effects**  
No data available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**13.1 Waste Material**  
Do not pour into drains or waterways. Waste management to be carried out without risk to water, air, soil, plants or animals. Place waste material into sealed containers and dispose of in accordance with current applicable laws and regulations.

**13.2 Contaminated Packaging**  
Recycle where possible and dispose of empty containers in accordance with current local government regulations.

**SECTION 14 - TRANSPORT INFORMATION**

**14.1 UN Number**  
1169

**14.2 UN Proper shipping name**  
Extracts, aromatic, liquid

**14.3 Transportation hazard classes**  
**Road and Rail Transport: DG Class 3**  
Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail. Transport as per the "Australian Dangerous Goods Code" for Class 3 [Flammable Liquids], Packaging Group III Substances.

**Marine Transport: IMDG Class 3 Flammable liquid**  
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**Air Transport: IATA Class 3**  
Classified by the criteria of the International Air Transport Association as (IATA) Dangerous Goods Regulations for transport by air.

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**14.4 Packing group**  
III

**14.5 Environmental hazards**  
Marine Pollutant. Avoid exposure to waterways.



**14.6 Poison Schedule**  
Schedule 6 POISON

**14.7 Hazchem Code**  
3 [Y]

## SECTION 15 - REGULATORY INFORMATION

- 15.1 EU regulations**  
This product has been classified and marked in accordance with the EU Directives/Ordinance on Hazardous Materials.
- 15.2 Poisons Schedule (Aust):** Listed as a Poison by the SUSDP  
All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS). This material is considered hazardous

## SECTION 16 - OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Native Oils Australia provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product but does not claim to be all inclusive. This document is thus, intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for the specific purpose. As the ordinary or otherwise use(s) of this product is outside the control of Native Oils Australia., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. Native Oils Australia expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by Native Oils Australia as to the fitness for any use. The liability of



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**Manufacturers Statement:**

Essential oils (EOs) are complex, naturally derived chemicals. Often the constituents of the EOs may individually have known risks and hazards, and in some cases the constituents have not been studied, often because there have been no complaints.

Used as directed and within the limits specified by the various agencies and associations that study these materials, essential oils are safe and useful ingredients in flavours, fragrances, cosmetics and therapeutic applications. Please refer to the guidelines of the industry in which the product will be offered to the public to abide by the safest known practices. Those organizations include: IFRA, IFEAT, AHPA, ISO Standards for Essential Oils, and publications by various government health organizations regarding the use of these materials.