

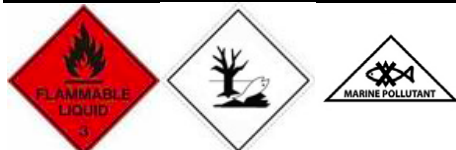


SECTION 1 – IDENTIFICATION

Product Name: TEA TREE Essential Oil (Organic, EcoVirgin and Wild Crafted)
 Product Codes: TTO 1K, TTO 4.5K, TTO 9K, TTO 18K, TTO 55K, TTO 185K, TTO-eV 1K, TTO-eV 4.5K, TTO-eV 9K, TTO-eV 18K, TTO-eV 55K, TTO-eV 185K
 Scientific Name: *Melaleuca alternifolia*
 Synonyms: NA
 Country of Origin CAS: Australia
 Number: Product 68647-73-4
 Use:

U.S. Hazmat Service Emergency Number: 800-373-7542
 Non-U.S. Emergency Number: +1 – 484-951-2432
 Contract Number: 1131

SECTION 2 - HAZARDS IDENTIFICATION



Appearance: Clear, colorless liquid to pale yellow liquid.
 Signal Word: Danger
 Risk Symbols: Xn Harmful
 Xi Irritant
 F Flammable
 N Dangerous to the environment
 Risk Phrases: R10, R 22, R37, R38, R43, R44, R 50, R53, R65
 Safety Phrases: S2, S3, S7, S13, S15, S16, S20, S21, S23, S24, S25, S26, S28, S29, S23, S33, S36, S37, S39, S41, S43, S45, S51, S60, S62, S63, S64.
 Hazardous Categories

Statement	Category
Physical	
Flammable Liq	3
Health	
Acute Oral Toxicity	4
Eye Irritation	2
Skin Irritation	2
Skin Sensitization	1
Aspiration Toxicity	1
Environmental	
Acute Aquatic Toxicity	1
Chronic Aquatic Toxicity	1

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**Precautionary Statements:**

P101- If medical advice is needed, have product container or label at hand.
 P102 - Keep out of the reach of children.
 P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 P243 - Take precautionary measures against static discharges.
 P261 - Avoid breathing fumes / mist / vapors / spray.
 P262 - Do not get in eyes, on skin, or on clothing.
 P264 - Wash face, hands and any exposed skin thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Hazard Symbols:

Warning

**SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS**

Main Constituents:	CAS Number	EINECS Number	Proportions [%w/w]
Melaleuca Alternifolia Leaf Oil	68647-73-4	Not allocated	100% pure
Allergens			
1,8-Cineole	470-82-6	207-431-5	< 15 %
gamma-Terpinene	99-85-4	202-794-6	< 28 %
Terpinen-4-ol	562-74-3	209-235-5	< 48 %
alpha-Terpineol	98-55-5	202-680-6	< 8 %
Other	Mixture	Mixture	< 47 %
Allergens			
Limonene *	5989-27-5	227-813-5	< 2 %

* Known EU Allergen. See Section 11. (See Section 8 for Exposure Limits.)

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SECTION 4 – FIRST AID MEASURES

Eye Contact:	Flush immediately with clean water for at least 15 minutes. Ensure irrigation Under eyelids. Do not try to remove contact lenses unless trained. Contact a physician immediately.
Inhalation:	Remove from the exposure to fresh air. If breathing has stopped, administer Artificial respiration and oxygen if available. Contact a physician as necessary.
Skin Contact:	Remove contaminated clothing and shoes. If irritation occurs or persists get medical attention. Wash skin with soap and water.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.
Symptoms and Effects of Exposure:	For information on potential signs and symptoms of exposure, See Section 2 – Hazards Identification and/or Section 11 - Toxicological Information.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media:	Water spray, carbon dioxide, dry chemical or foam.
Hazardous Combustion Products:	Carbon monoxide and carbon dioxide
Fire Fighting Procedures:	During all fire-fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.
Fire / Explosion Hazards:	Flammable liquid and vapor. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

Section 6 – Accidental Release Measures

Health and Safety Precautions:	Personnel involved in cleanup should wear appropriate personal protective equipment (see Section 8). Minimize exposure. Eliminate all sources of ignition and ventilate area using explosion-proof equipment.
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Measures for Cleaning And Collecting:	Contain the source of spill if it is safe to do so. Collect spill with sorbent material. Clean spill area thoroughly.
Measures for Environmental Protections:	Keep away from drains, surface and ground water. Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.
Additional Consideration for Large Spills:	Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

SECTION 7 – HANDLING AND STORAGE

General Handling:	Use only in a well-ventilated area. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Keep away from heat, sparks, flame and all other sources of ignition. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.
Storage Conditions:	Containers should be kept closed in order to minimize contamination. Store in a cool, dry, well-ventilated place protected from light. Keep from extreme heat and away from ALL sources of ignition. Store as directed by product packaging.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits	There is a blanket recommendation of 10 mg/m ³ for inspirable dusts or mists when limits have not otherwise been established. See Section 11 for additional information.
OSHA TWA:	None established.
OSHA STEL:	None established.
ACGIH TWA:	None established.
ACGIH STEL	None established.
NOHSC TWA:	None established.
NOHSC STEL:	None established.
Respiratory Protection	None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate.

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Ventilation Protection: Ensure adequate ventilation to keep exposure levels to a minimum. Local exhaust meeting ACGIH criteria is required. General exhaust is recommended.

Eye Protection: Using goggles or face shield is recommended.



Protective Gloves: Using chemical resistant gloves is recommended



Protective Clothing: Using chemical resistant clothing is recommended.



Protective Equipment: An eyewash fountain and / or safety shower should be available in the work area.

Engineering Controls: Engineering controls should be used as the primary means to control exposures.
General contamination levels below room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne the exposure limits listed above in this section.

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental legislation.

Personal Protective Refer to applicable national standards and regulations.

Equipment: In the selection and use of personal protective equipment (PPE).

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Colorless to pale yellow
Odor:	Characteristic Tea Tree
Specific Gravity:	0.860 to 0920 @ 20° C
Refractive Index:	1.475 to 1.482 @ 20° C
Water Solubility:	Not Soluble
Boiling Point (°C):	Not available.
Vapor Pressure (kPa):	Not available.
Vapor Density (g/ml):	Not available.
Flash Point (Liquid) (°C):	55°C / 131°F Closed cup.
Upper Explosive Limits: (Liquid) (% by Vol.):	Not available.
Lower Explosive Limits: (Liquid) (% by Vol.):	Not available.
Polymerization:	Will not occur

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use.
Conditions to Avoid	Keep away from heat, spark, flames and all other sources of ignition.
Incompatible Materials	Strong oxidizing agents and strong inorganic acids.

SECTION 11 – TOXICOLOGICAL INFORMATION

General Information:	There are various studies on Tea Tree Oil, see below. The information included in this section includes potential hazards of some of the individual constituents in the substance as well data based on the pure substance.
Acute Effects: Swallowed:	Harmful. May cause seizures, hallucinations, ataxia, diarrhea, sleep, comas. Central nervous system, depression. Rapid absorption maybe expected.
Eye:	Severe irritant.
Skin:	Irritant. May cause erythema, irritation or edema. Repeated or prolonged skin contact may lead to allergic contact dermatitis in some users.

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Inhalation: May be harmful. May cause respiratory depression. May cause mucous membrane irritation of the nose and throat with coughing at high levels.

Chronic Effects: None identified

Mutagenic Effects: None identified. Not mutagenic by the Ames test.

Reproductive Effects: None identified.

Carcinogenic Effects: None identified.

Sensitization: None identified.

Infectious: Not applicable

Acute Toxicity: (Species, Route, End Point, Dose) – Tea Tree Whole:

Rabbit, Dermal, LD50 5,000 mg/Kg (LDLo)
 Rat, Oral, LD50 1500 mg/kg (TD)
 Rabbit Oral LD 50 5000 mg/kg (TD)
 Cat, Dermal, TD 5 ml/Kg Somnolence, ataxia, change in leucocyte count.
 Dog, Dermal TD 143 ml/Kg Somnolence, ataxia, change in leucocyte count.

Human Exposure Tests:

TD [Oral]: 21 µl/Kg [after repeated low dose exposure] [Adult].
 Toxic effects: P20 [changes in cell count (unspecified)], R01 [dermatitis, allergic], R03 [dermatitis, other]. TD [Oral]: 0.5 ml/Kg [Adult]. Toxic effects: F08 [hallucinations, distorted perceptions], F24[coma], K12 [hypermotility, diarrhea]. TD [Oral]: 0.5 ml/Kg [Child]. Toxic effects: F04 [sleep], F08 [hallucinations, distorted perceptions], F19 [ataxia].
 1. TD [Oral]: 0.6 ml/Kg [Child]. Toxic effects: F07 [somnolence], F19 [ataxia], F24 [coma]

Known EU Allergen: Limonene < 2%.

Tea Tree Oil used at the stated limit of 1% in EU cosmetics is well below the .1% limit of exposure for limonene. Refer to IFRA Amendment 46.

SECTION 12 – TOXICOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this substance have not been fully evaluated. Releases to the environment should be avoided.

Eco-toxicity: Avoid pollution to soil, rivers and the ocean.
 [Fish] LC50 > 100 mg/Lt [OECD 206].

Persistence & Degradability: Low persistence level and readily biodegradable [OECD 301F].

Mobility: Low mobility in the soil.

Bioaccumulative Potential: None established.

Other Adverse Effects: None established.

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SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural wastewater and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

SECTION 14 – TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

This material is regulated for transport under DOT, ADR, IMDG, and IATA regulations.

UN Number	UN 1993
UN proper shipping name:	Flammable Liquid Nos (Tea Tree Oil)
Transport hazard class(es):	3
Packing group:	III

SECTION 15 – REGULATORY INFORMATION

EU Symbol:	Xn Harmful, Xi Irritant, F Flammable, N Dangerous for the environment.
EU Risk Phrases:	R10 Flammable, R22 Harmful if swallowed, R36 Irritating to eyes, R37 Irritating to respiratory system, R38 Irritating to skin, R43 May cause sensitization by skin contact, R44 Risk of explosion if heated under confinement, R50 Very toxic to aquatic organisms, R53 May cause long-term adverse effects in the aquatic environment, R65 Harmful: may cause lung damage if swallowed.
EU Safety Phrases:	S3 Keep in a cool place. S7 Keep container tightly closed. S13 Keep away from food, drink and animal feeding stuffs. S15 Keep away from heat. S16 Keep away from sources of ignition – No smoking. S20 When using, do not eat or drink. S21 When using, do not smoke.

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S23 Do not breathe fumes / vapors.
 S24 Avoid contact with skin.
 S25 Avoid contact with eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28 After contact with skin, wash immediately with plenty of soap and water.
 S29 Do not empty into drains.
 S33 Take precautionary measures against static discharges.
 S36 Wear suitable protective clothing.
 S37 Wear suitable gloves.
 S39 Wear eye / face protection.
 S41 In case of fire and / or explosion do not breathe fumes.
 S43 In case of fire use Carbon Dioxide; Dry Chemical; Universal-Type Foam. Never use water jets.
 S45 In case of accident or if you feel unwell, seek medical advice immediately [show the label where possible].
 S51 Use only in well-ventilated areas.
 S60 This material and its container must be disposed of as hazardous waste.
 S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
 S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.
 S64 If swallowed, rinse mouth with water, [only if the person is conscious].
 WARNING : Flammable liquid.

OSHA Label:
Identifying markings in accordance with EC directives /GefStoffV:

No duty to mark/Exem

SECTION 16 – OTHER INFORMATION

Text of R phrases mentioned in Section 3

R10 - Flammable.

R2 - Harmful if swallowed.

Data Sources: Publicly available toxicity information.

Reasons for Revision:

GHS conformance.

Prepared by:

G. Timmons 02/05/14

Naturally Australian Products, Inc

Revision Indicator:

New SDS

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