

CERTIFICATE OF ANALYSIS & MATERIAL SAFETY DATA SHEET

Not classified as hazardous according to criteria of Worksafe Australia

1. PRODUCT IDENTIFICATION

1.1 **Product Name :** Tea Tree Oil
 1.2 **Botanical Name :** *Melaleuca Alternifolia*
 1.3 **Country of Origin :** Australia
 1.4 **Product Type ;** Natural essential oil
 1.5 **Uses :** Antioxidant ; Fragrance Ingredient.
 1.6 **UN Number :** 1169
 1.7 **Packaging Group :** III
 1.8 **DG Class :** 3
 1.9 **Poison Schedule :** 6
 1.10 **Hazchem Code :** 3[Y]
 Melaleuca Alternifolia
 [Tea Tree] Leaf Oil
 1.11 **INCI Name :**

2. PHYSICAL & ANALYTICAL DATA

2.1 **Appearance :** Clear, colourless to pale yellow liquid
 2.2 **Odour :** Characteristic antiseptic and Medicinal scent
Odour Threshold: Not available
 2.3 **Specific Gravity :** 0.992 @ 20 degree C
 2.4 **Refractive Index :** 1.4778 @ 20 degree C
 2.5 **Optical Rotation :** +8.8 degree C @ 20 degree C
 2.6 **pH** Not available
 2.7 **Solubility :** Soluble in ethyl alcohol
 2.8 **Solubility in Water :** Insoluble
 2.9 **Flash Point :** 56.7 degree C
 2.10 **Flammability Limits [as % v/v in Air]**
Lower Explosion Limit : Not available
Upper Explosion Limit : Not available
 2.11 **Autoignition Temperature :** Not available
 2.12 **Melting Point :** Not available [degree C @ 760.0 mm]
 2.13 **Boiling Point :** Not available [degree C @ 760.0 mm]
 2.14 **Vapour Pressure :** Not available [mm Hg]
 2.15 **Vapour Density :** Not available

2.16 Ingredients :

Component Entity	CAS Number	Proportions [%w/w]
Tea Tree Essential Oil	68647-73-4	100% pure

2.17 Constituent Assay :

	Result	Range
α-Pinene :	2.70%	1% to 6%
Sabinene :	0.10%	trace to 3.5%
α-Terpinene :	9.60%	5% to 13%
Limonene :	1.00%	0.5% to 1.5%
p-Cymene :	2.90%	0.5% to 8%
1, 8-Cineole :	2.70%	trace to 15%
γ-Terpinene :	22.20%	10% to 28%
Terpinolene :	3.50%	1.5% to 5%
Terpinen-4-ol :	39.90%	30% to 48%
α-Terpineol :	2.70%	1.5% to 8%
Aromadendrene :	1.30%	trace to 3%
Viridiflorene [Ledene] :	0.10%	trace to 3%
δ-Cadinene :	0.20%	trace to 3%
Globulo :	0.20%	trace to 1%
Viridiflorol :	0.20%	trace to 1%

3. HEALTH HAZARD DATA

3.1 **Health Effect :** Acute Effect Swallowed : May be harmful
 Eye : May be irritating
 Skin : May be irritating
 Inhalation : May be harmful
 Chronic Effects : Not information applicable
 3.2 **First Aid**
 Swallowed : Do not induce vomiting. Give a glass of water.
 Eye : Hold open and wash with running water for at least 15 minutes.
 Ensure irrigation under eyelids by occasionally lifting them.
 Do not try to remove contact lenses unless trained.
 Skin : Wash for at least 15 minutes with soap and water.
 Remove contaminated clothing and footwear.
 Ensure contaminated clothing is thoroughly washed before using again.
 Inhalation : Remove to fresh air if mists, dusts or combustion products are inhaled.
 Lay victim down and keep warm rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available.
 Transport to hospital or doctor immediately.
 3.3 **Contact Point :** Poisons Information Centre Sydney (T) 131 129 or 1800 251 525
 3.4 **Advice to Doctor** Treat symptomatically. Not the nature of this product.

4. PRECAUTIONS FOR USE

4.1 **Exposure Standards :** No exposure standards have been established for this material by NOHSC
 4.2 **Engineering Controls :** No special ventilation required
 4.3 **Personal Protection :** Safety glasses, mask and gloves are desirable.
 Consult AS2161, 1715 & 1337
 4.4 **Flammability** No data

5. SAFE HANDLING INFORMATION

5.1 **Storage :** Store in a tight container in a cool, well ventilated place protected from light and away from sources of ignition. Not a hazardous material.
 5.2 **Transport :** No special transport required.
 5.3 **Spillage :** Keep away from drains. Wipe small spills with cloth.
 Absorb larger spills with absorbent materials.
 Clean with hot water and detergent.
 Dispose according to local authority advice.
 5.4 **Fire/Explosion Hazard :** Combustible, produces oxides of carbons.
 Use water spray, carbon dioxide, dry chemical and foam type extinguishing media.
 5.5 **Contact Point :** Dial 110 Emergency in case of fire.

6. ECOLOGICAL INFORMATION

6.1 No environmental hazards are known. Avoid pollution to soil, rivers and ocean. Readily biodegradable.