

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: TEA TREE (AFRICAN), ESSENTIAL OIL ORGANIC**

**BATCH NUMBER: 4367806**

PRODUCT INCI: MELALEUCA ALTERNIFOLIA LEAF OIL

PRODUCT CODE: OCTEATRE

CAS NUMBER: 85085-48-9 / 68647-73-4

EINECS NUMBER: 285-377-1

MANUFACTURING METHOD: STEAM DISTILLED

MANUFACTURING DATE: JULY 2019

BEST BEFORE END: AUGUST 2022

ANALYTICAL DETAILS	RANGE	RESULTS
APPEARANCE	LIQUID	-
COLOUR	COLOURLESS – PALE YELLOW	-
ODOUR	CHARACTERISTIC	-
SPECIFIC GRAVITY @ 20°C	0.885 – 0.906	0.886
REFRACTIVE INDEX @ 20°C	1.470 – 1.482	1.475
OPTICAL ROTATION (°C)	+5.0 TO +15.0	+9.27
1.8 CINEOLE CONTENT (%)	MAX 5.0	2.43
TERPINENE-4-OL (%)	MIN 35.0	39.84

### STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

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## Allergen Declaration:

**PRODUCT NAME:** Tea Tree (South African), Essential Oil Organic

**INCI:** Melaleuca alternifolia leaf oil

### COSMETIC ALLERGENS

*The following is from the 7th amendment of the cosmetic directive of the European Union Annex III.*

Annex IIIa Reference:		CAS NUMBER:	TOTAL ALLERGEN INCLUSION (%):
67	AMYL CINNAMAL	122-40-7	0.00
68	BENZYL ALCOHOL	100-51-6	0.00
69	CINNAMYL ALCOHOL	104-54-1	0.00
70	CITRAL	5392-40-5	0.00
71	EUGENOL	97-53-0	0.00
72	HYDROXY-CITRONELLAL	107-75-5	0.00
73	ISOEUGENOL	97-54-1	0.00
74	AMYL CINNAMYL ALCOHOL	101-85-9	0.00
75	BENZYL SALICYLATE	118-58-1	0.00
76	CINNAMAL	104-55-2	0.00
77	COUMARIN	91-64-5	0.00
78	GERANIOL	106-24-1	0.00
79	HYDROXY-METHYLPENTYL CYCLOHEXENECARBOXYALDEHYDE	31906-04-4	0.00
80	ANISE ALCOHOL	105-13-5	0.00
81	BENZYL CINNAMATE	103-41-3	0.00
82	FARNESOL	4602-84-0	0.00
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0.00
84	LINALOOL	78-70-6	<0.1
85	BENZYL BENZOATE	120-51-4	0.00
86	CITRONELLOL	106-22-9	0.00
87	HEXYL CINNAM-ALDEHYDE	101-86-0	0.00
88	LIMONENE	5989-27-5	<5.0
89	METHYL HEPTIN CARBONATE	111-12-6	0.00
90	ALPHA-ISOMETHYL IONONE	127-51-5	0.00
91	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0.00
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0.00

### FOOD ALLERGENS

*The following is from the commission directive 2007/68/EC of 27th November 2007 amending Annex IIIa to Directive 2002/46/EC of the European Parliament & Council with regards to specific food ingredients.*

Annex IIIa Reference:		PRESENT IN PRODUCT:	CONTAMINATION PRESENCE:	FACTORY PRESENCE:
1	CEREALS (CONTAINING GLUTEN)	NO	NO	YES
2	CRUSTACEANS	NO	NO	NO
3	EGGS	NO	NO	NO
4	FISH	NO	NO	NO
5	PEANUTS	NO	NO	YES
6	SOYA	NO	NO	YES
7	MILK	NO	NO	YES
8	NUTS	NO	NO	YES
9	CELERY & CELERiac	NO	NO	YES
10	MUSTARD	NO	NO	YES
11	SESAME	NO	NO	YES
12	SULPHUR DIOXIDE & SULPHITES	NO	NO	NO
13	LUPIN	NO	NO	NO
14	MOLLUSC	NO	NO	NO

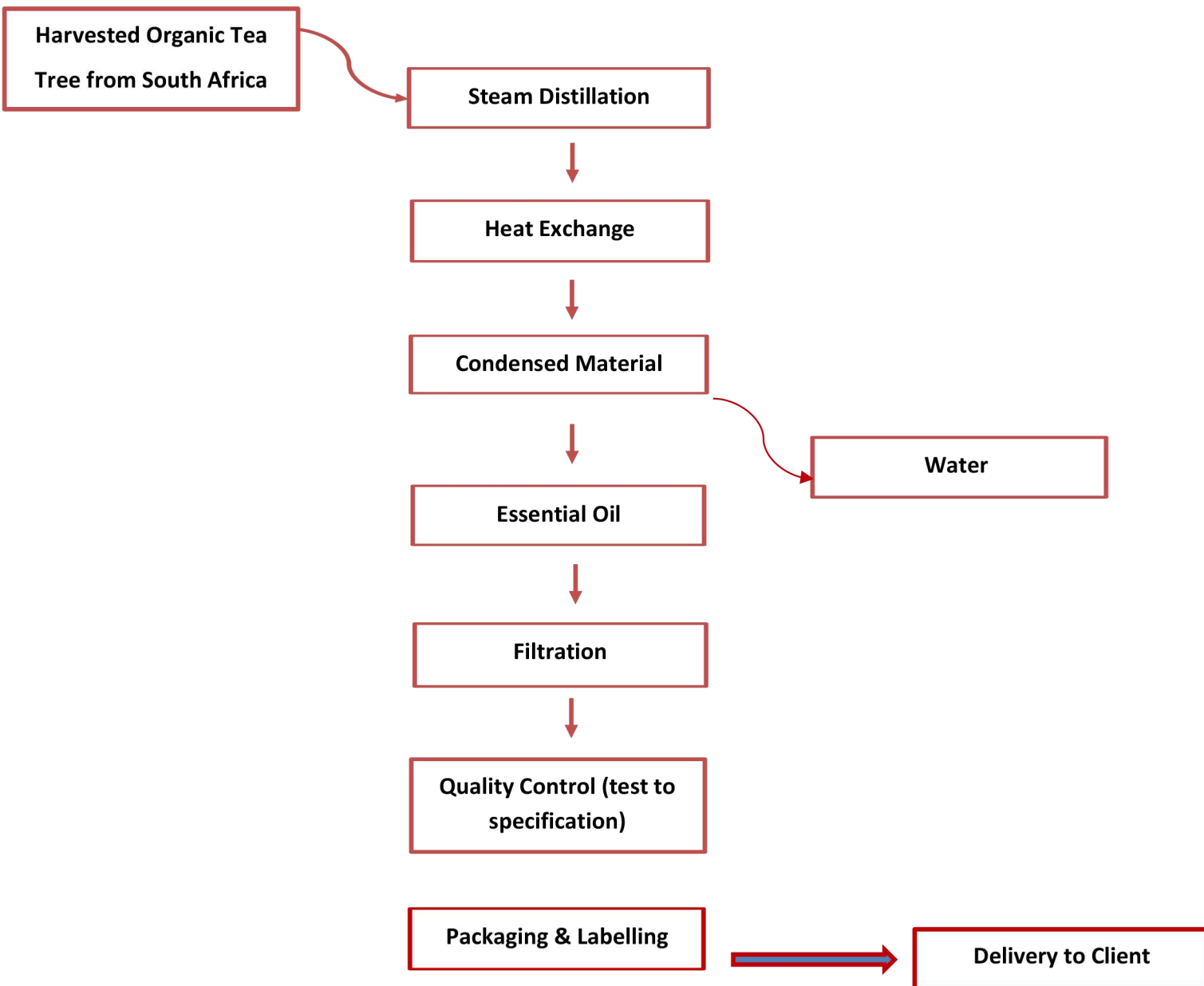
This product IS food grade



## Composition Statement & Manufacturing Flow Chart

### Tea Tree (South African), Essential Oil Organic

INCI Name	% Inclusion	CAS Number
Melaleuca Alternifolia Leaf	100	85085-48-9 / 68647-73-4





## **GMO Statement**

PRODUCT NAME: TEA TREE (SOUTH AFRICAN), ESSENTIAL OIL

MADAR Corporation Limited can confirm that the above listed product is GMO Free.

01/08/2019

## IFRA STATEMENT

**PRODUCT NAME: TEA TREE (SOUTH AFRICAN), ESSENTIAL OIL ORGANIC**

PRODUCT INCI: MELALEUCA ALTERNIFOLIA LEAF

PRODUCT CODE: OCTEATRE

CAS NUMBER: 85085-48-9 / 68647-73-4

EINECS NUMBER: 285-377-1

MANUFACTURING METHOD: STEAM DISTILLED

**MADAR CERTIFY THAT THE ABOVE NAMED MATERIAL CONFORMS TO THE IFRA 48 CODE OF PRACTICE AND CONTAINS THE FOLLOWING RESTRICTED COMPONENTS THAT ARE LISTED IN THE 48<sup>TH</sup> AMENDMENT OF THE IFRA CODE OF PRACTICE:**

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Linalool	78-70-6	≤ 0.1	Specification Std
Limonene	5989-27-5	≤ 5.0	Specification Std

IFRA Classes	% Maximum Use Level
Class 1	Not Restricted.
Class 2	Not Restricted.
Class 3A, 3B, 3C, 3D	Not Restricted.
Class 4A, 4B, 4C, 4D	Not Restricted.
Class 5	Not Restricted.
Class 6	Not Restricted.
Class 7A, 7B	Not Restricted.
Class 8A, 8B	Not Restricted.
Class 9A, 9B, 9C	Not Restricted.
Class 10A, 10 B	Not Restricted.
Class 11	Not Restricted.
IFRA Classes	% Maximum Use Level
Class 1	Not Restricted.
Class 2	Not Restricted.
Class 3A, 3B, 3C, 3D	Not Restricted.
Class 4A, 4B, 4C, 4D	Not Restricted.
Class 5	Not Restricted.
Class 6	Not Restricted.
Class 7A, 7B	Not Restricted.
Class 8A, 8B	Not Restricted.
Class 9A, 9B, 9C	Not Restricted.
Class 10A, 10 B	Not Restricted.
Class 11	Not Restricted.

Finished product types	IFRA class
Toys; Lip Products of all types (solid and liquid lipsticks, balms, clear or colored etc...)	Class 1
Deodorant and Antiperspirant products of all types (spray, stick, roll-on, under-arm and body etc...)	Class 2
Hydroalcoholic products applied to recently shaved skin (EdT range)	Class 3.A
Hydroalcoholic products applied to recently shaved skin (fine fragrance range)	Class 3.B
Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc...) including eye cream. Men's Facial Creams and Balms	Class 3.C
Tampons.	Class 3.D

Hydroalcoholic Products applied to unshaved skin (EdT range). Ingredients of Perfume Kits. Scent Strips for Hydroalcoholic Products, "scratch and sniff", other paper products not mentioned elsewhere for which skin exposure is only incidental (e.g. spectacle cleaning tissues).	Class 4.A
Hydroalcoholic Products applied to unshaved skin (Fine Fragrance range).	Class 4.B
Hair Styling Aids and Hair Sprays of all types (pumps, aerosol sprays, etc...); Hair Deodorant. Body Creams, Oils, Lotions of all types (including baby creams, lotions, oils). Fragrance Compounds for Cosmetic Kits, Foot Care Products	Class 4.C
Fragrancing Cream	Class 4.D
Women's Facial Creams/Facial Make-up (excluding eye cream); Facial Masks; Hand Cream	Class 5
Wipes or refreshing tissues for Face, Neck, Hands, Body.	Class 6
Mouthwash, Toothpaste.	Class 6
Intimate Wipes; Baby Wipes.	Class 7 A
Insect Repellent (intended to be applied to the skin).	Class 7 B
Make-up Removers of all types (not including face cleansers). Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners etc...). Nail Care. All Powders & Talcs (including baby powders and talcs).	Class 8
Liquid Soap, Bar Soap (toilet soap); Depilatory; Conditioner (rinse-off), Shampoos of all types (including baby shampoos).Face Cleansers of all types (washes, gels, scrubs, etc...).Shaving Creams of all types (stick, gels, foams, etc...).Body Washes of all types (including baby washes).Shower Gels of all types; Bath Gels, Foams, Mousses, Salts, Oils and other products added to bathwater	Class 9.A
Feminine hygiene pads / liners.	Class 9.B
'Other' Aerosols (including air fresheners sprays but not including deodorant/antiperspirants, hair styling aids spray).	Class 9.C
Hand wash/Machine wash Laundry Detergents of all types (liquid, powder, tablet, etc...) including Laundry Bleaches. Other Household Cleaning Products (fabric cleaners, soft surface cleaners, carpet cleaners etc...) . Dry Cleaning Kits. Fabric Softeners of all types including fabric softener sheets. Hand Dishwashing Detergent. Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish etc...). Shampoos for pets	Class 10.A
Diapers. Toilet seat wipes.	Class 10.B
All non-skin contact, including: Air Fresheners and fragrancing of all types (excluding aerosol products): plug-ins, solid substrate, membrane delivery; Toilet blocks; Joss Sticks, Incense; Insecticides (mosquito coil, paper, electrical, etc...excluding aerosols); Plastic articles (excluding toys); Candles; Fuels; Paints; Floor wax; Liquid refills for air fresheners (cartridge system)	Class 11.A
All incidental skin contact, including: Machine Dish wash Detergents and Deodorizers. Machine only Laundry Detergents (e.g. liquid tabs). Deodorizers/Maskers (e.g. fabric drying machine deodorizers, carpet powder). Pot pourri, fragrancing sachets, liquid refills for air fresheners (non-cartridge systems), etc... Shoe polishes; Cat Litter; Animal Sprays (excluding aerosols); Treated Textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics, tights with moisturizers); Odored Distilled Water (that can be added to steam irons).	Class 11.B

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## Material Safety Data Sheet

EU Regulation: 1907/2006

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

1.1 PRODUCT IDENTIFICATION					
<b>PRODUCT NAME</b>	TEA TREE (SOUTH AFRICAN), ESSENTIAL OIL				
<b>BIOLOGICAL DEFINITION</b>	MELALEUCA ALTERNIFOLIA LEAF OIL IS THE OIL DISTILLED FROM THE LEAVES OF THE TEA TREE, MELALEUCA ALTERNIFOLIA, MYRTACEAE.				
<b>INCI NAME</b>	MELALEUCA ALTERNIFOLIA LEAF				
<b>SYNONYMS &amp; TRADE NAMES</b>	TEA TREE OIL				
<b>INTERNAL PRODUCT CODE</b>	OCTEATRE				
<b>CAS-No</b>	85085-48-9 / 68647-73-4	<b>EC No.</b>	285-377-1	<b>EINECS No.</b>	285-377-1
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
<b>COMPANY ADDRESS</b>	MADAR CORPORATION LIMITED 19-20 SANDLEHEATH INDUSTRIAL ESTATE, FORDINGBRIDGE, HAMPSHIRE, SP6 1PA				
<b>EMAIL</b>	SALES@MADARCORPORATION.CO.UK				
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
<b>EMERGENCY CONTACTS</b>	01425 655555 DURING OFFICE HOURS				



SECTION 2: HAZARDS IDENTIFICATION	
<b>2.1</b> <b>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE</b>	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 1 6.
<b>CLASSIFICATION (67/548/EEC)</b>	NO ADDITIONAL DATA AVAILABLE.
<b>CLASSIFICATION (EU 1272/2008)</b>	<p>PHYSICAL AND CHEMICAL HAZARDS: FLAM. LIQ. 3 - H226</p> <p>HUMAN HEALTH: ACUTE TOX. 4 - H302. SKIN IRRIT. 2 - H315. EYE IRRIT. 2 - H319. SKIN SENS. 1 - H317. ASP. TOX. 1 - H304.</p> <p>ENVIRONMENT: AQUATIC ACUTE 2 - H401. AQUATIC CHRONIC 2 - H411.</p>
<b>2.2</b> <b>LABEL ELEMENTS</b>	LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.
<b>GHS LABEL</b>	    <p>GHS02                      GHS07                      GHS08                      GHS09</p>
<b>SIGNAL WORD</b>	DANGER.
<b>CONTAINS</b>	ALPHA PINENE NATURAL, A-TERPINENE, BETA PINENE, G-TERPINENE, LIMONENE, TERPINEN-4-OL
<b>HAZARDS STATEMENT</b>	<p>H226 FLAMMABLE LIQUID AND VAPOUR.</p> <p>H302 HARMFUL IF SWALLOWED.</p> <p>H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.</p> <p>H315 CAUSES SKIN IRRITATION.</p> <p>H317 MAY CAUSE AN ALLERGIC SKIN REACTION.</p> <p>H319 CAUSES SERIOUS EYE IRRITATION.</p> <p>H401 TOXIC TO AQUATIC LIFE.</p> <p>H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.</p>
<b>PRECAUTIONARY STATEMENTS</b>	<p>P273 AVOID RELEASE TO THE ENVIRONMENT.</p> <p>P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.</p> <p>P262 DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.</p> <p>P301+310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.</p> <p>P305+351+338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.</p> <p>P331 DO NOT INDUCE VOMITING.</p> <p>P391 COLLECT SPILLAGE.</p>
<b>SUPPLEMENTARY PRECAUTIONARY STATEMENTS</b>	<p>P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.</p> <p>P233 KEEP CONTAINER TIGHTLY CLOSED.</p> <p>P240 GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT.</p> <p>P241 USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/.../EQUIPMENT.</p> <p>P242 USE ONLY NON-SPARKING TOOLS.</p> <p>P243 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE.</p> <p>P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY.</p> <p>P264 WASH ... THOROUGHLY AFTER HANDLING.</p> <p>P270 DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.</p> <p>P272 CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE.</p> <p>P301+312 IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.</p> <p>P302+352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.</p> <p>P303+361+353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER.</p> <p>P313 GET MEDICAL ADVICE/ATTENTION.</p> <p>P321 SPECIFIC TREATMENT (SEE ... ON THIS LABEL).</p> <p>P330 RINSE MOUTH.</p> <p>P332+313 IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.</p> <p>P333+313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.</p> <p>P337 IF EYE IRRITATION PERSISTS:</p> <p>P362 TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE.</p> <p>P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.</p>

P370+378 IN CASE OF FIRE: USE ... FOR EXTINCTION.  
P403+235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL.  
P405 STORE LOCKED UP.  
P501 DISPOSE OF CONTENTS/CONTAINER TO ...

SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.

### 2.3 OTHER HAZARDS

ADVERSE PHYSIO-CHEMICAL PROPERTIES NO DATA

ADVERSE EFFECTS ON HUMAN HEALTH NO DATA

PBT OR VPVB ACCORDING TO ANNEX XIII NO DATA

## SECTION 3: COMPOSITION OF INGREDIENTS

### 3.2 MIXTURES

**1.0 – 5.0% ALPHA PINENE NATURAL** CAS-No: 80-56-8 EC No: 201-291-9  
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304

**1.0 – 5.0% A-TERPINEOL (P-MENTH-1-EN-8-OL)** CAS-No: 98-55-5 EC No: 202-680 6 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319

**1.0 – 5.0% BETA-PINENE** CAS-No: 127-91-3 EC No: 204-872-5  
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304

**10.0 – 30.0% r-TERPINENE** CAS-No: 99-85-4 EC No: 202-794-6  
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ASP. TOX. 1 - H304

**10.0 – 30.0% A-TERPINENE** CAS-No: 99-86-5 EC No: 202-795-1  
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ACUTE TOX. 4 - H302, ASP. TOX. 1 - H304, AQUATIC CHRONIC 2 - H411

**1.0 – 5.0% D-LIMONENE** CAS-No: 5989-27-5 EC No: 227-813-5  
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410

**5.0 – 10.0% P-CYMENE** CAS-No: 99-87-6 EC No: 202-796-7  
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410

**30.0 – 60.0% TERPIN-4-OL** CAS-No: 562-74-3 EC No: 209-235-5  
CLASSIFICATION (EC 1272/2008) ACUTE TOX. 4 - H302, SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, AQUATIC ACUTE 3 - H402

**1.0 – 5.0% TERPINOLENE** CAS-No: 586-62-9 EC No: 209-57-0  
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ASP. TOX. 1 - H304, AQUATIC CHRONIC 2 - H411

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

**GENERAL INFORMATION** ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.

**INHALATION** GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL

	ATTENTION.
<b>INGESTION</b>	GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.
<b>SKIN CONTACT</b>	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.
<b>EYE CONTACT</b>	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.
<b>4.2</b> MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)	INHALATION MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING. INGESTION IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM. SKIN CONTACT TOXIC IN CONTACT WITH SKIN. EYE CONTACT MAY CAUSE EYE IRRITATION.
<b>4.3</b> INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	NONE EXPECTED, SEE SECTION 4.1 FOR FURTHER INFORMATION.

## SECTION 5: FIRE FIGHTING MEASURES

<b>5.1</b> EXTINGUISHING MATERIAL	FOAM, CO <sub>2</sub> , DRY CHEMICAL POWDER.
<b>5.2</b> SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
<b>5.3</b> ADVICE FOR FIRE-FIGHTERS	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.

## SECTION 6: ACCIDENTAL RELEASE MEASURES




<b>6.1</b> PERSONAL PRECAUTIONS	ENSURE ADEQUATE VENTILATION OF THE WORKING AREA, EVACUATE PERSONNEL TO SAFE AREA, WEAR SUITABLE PROTECTIVE EQUIPMENT. NO SMOKING, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION NEAR SPILLAGE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
<b>6.2</b> ENVIRONMENTAL PRECAUTIONS	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.
<b>6.3</b> METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP	REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN SPILLAGE IMMEDIATELY BY USE OF SAND OR INERT POWDER. DISPOSE OF ACCORDING TO LOCAL REGULATIONS.
<b>6.4</b> REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.

## SECTION 7: HANDLING & STORAGE

<b>7.1</b> PRECAUTIONS FOR SAFE-HANDLING	HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AND HOT SURFACES. - NO SMOKING. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. USE IN ACCORDANCE WITH GOOD MANUFACTURING AND INDUSTRIAL HYGIENE PRACTICES. USE IN AREAS WITH ADEQUATE VENTILATION DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
<b>7.2</b> CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM POTENTIAL SOURCES OF IGNITION AND PROTECTED FROM LIGHT. MAINTAIN LIMITED CONTACT WITH OXYGEN.
<b>7.3</b> SPECIFIC END USE(S)	NO DATA.

## SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

<b>8.1</b> CONTROL PARAMETERS	P-CYMENE (CAS: 99-87-6)      CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.
<b>8.2</b> EXPOSURE CONTROLS	

			
<b>EYE PROTECTION</b>	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.		
<b>HAND PROTECTION</b>	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.		
<b>RESPIRATORY EQUIPMENT</b>	UNDER NORMAL CONDITIONS OF USE AND WHERE ADEQUATE VENTILATION IS AVAILABLE TO PREVENT BUILD UP OF EXCESSIVE VAPOUR, THIS MATERIAL SHOULD NOT REQUIRE SPECIAL ENGINEERING CONTROLS. HOWEVER, IN CONDITIONS OF HIGH OR PROLONGED USE, OR HIGH TEMPERATURE OR OTHER CONDITIONS WHICH INCREASE EXPOSURE, THE FOLLOWING ENGINEERING CONTROLS CAN BE USED TO MINIMISE EXPOSURE TO PERSONNEL: A) INCREASE VENTILATION OF THE AREA WITH LOCAL EXHAUST VENTILATION. B) PERSONNEL CAN USE AN APPROVED, APPROPRIATELY FITTED RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGE OR CANISTERS AND PARTICULATE FILTERS. C) USE CLOSED SYSTEMS FOR TRANSFERRING AND PROCESSING THIS MATERIAL. ALSO REFER TO SECTIONS 2 AND 7.		
<b>HYGIENE MEASURES</b>	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.		
<b>ENGINEERING MEASURES</b>	NONE.		
<b>SKIN PROTECTION</b>	WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.		
<b>PERSONAL PROTECTION</b>	AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.		
<b>OTHER PROTECTION</b>	WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOURS.		
<b>PROCESS CONDITIONS</b>	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.		
<b>ENVIRONMENTAL EXPOSURE CONTROLS</b>	AVOID DISCHARGING INTO DRAINAGE WATER.		

## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

<b>9.1</b> PHYSICAL & CHEMICAL PROPERTIES	
<b>APPEARANCE</b>	LIQUID
<b>COLOUR</b>	COLOURLESS TO PALE YELLOW.
<b>ODOUR</b>	CHARACTERISTIC – POWERFUL, WARM, SPICY.
<b>RELATIVE DENSITY</b>	0.885 - 0.906 @ 20 °C
<b>FLASH POINT (°C)</b>	57°C
<b>REFRACTIVE INDEX @ 20 °C</b>	1.473 - 1.482 @ 20°C
<b>SOLUBILITY IN WATER @ 20 °C</b>	INSOLUBLE IN WATER
<b>9.2</b> OTHER INFORMATION	NO DATA.

## SECTION 10: STABILITY & REACTIVITY

<b>10.1</b> REACTIVITY	PRESENTS NO SIGNIFICANT REACTIVITY HAZARDS, BY ITSELF OR IN CONTACT WITH WATER. STABLE UNDER NORMAL TEMPERATURE AND STORAGE CONDITIONS AND RECOMMENDED USE.
<b>10.2</b> CHEMICAL STABILITY	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).
<b>10.3</b> POSSIBILITY OF HAZARDOUS REACTIONS	NO.
<b>10.4</b> CONDITIONS TO AVOID	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C.
<b>10.5</b> INCOMPATIBLE MATERIALS	STRONG ACIDS, ALKALI OR OXIDISING

**10.6**  
**HAZARDOUS DECOMPOSITION PRODUCTS**

THIS PRODUCT DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE A MIXTURE OF IRRITATING FUMES & SMOKE & CARBON MONOXIDE.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1**  
**TOXICOLOGICAL EFFECTS**



<b>ACUTE TOXICITY</b>	TOXIC DOSE 1 - LD 50 TOXIC DOSE 2 - LD 50	1.9 (1.4 - 2.7) MG/KG (ORAL RAT) 1.9 - 2.6 G/KG 13 MG/KG (ORAL RAT)
<b>SKIN IRRITATION</b>	MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. MAY BE HARMFUL IF SWALLOWED.	
<b>EYE DAMAGE OR IRRITATION</b>	MAY CAUSE EYE IRRITATION.	
<b>RESPIRATORY OR SKIN SENSITIVITY</b>	POTENTIAL IRRITANT IF INHALED.	
<b>GERM CELL MUTAGENICITY</b>	NO DATA	
<b>CARCINOGENICITY</b>	NO DATA	
<b>REPRODUCTIVE TOXICITY</b>	NO DATA	
<b>STOT – SINGLE EXPOSURE</b>	NO DATA	
<b>STOT – REPEATED EXPOSURE</b>	NO DATA	
<b>ASPIRATION HAZARD</b>	NO DATA	
<b>OTHER INFORMATION</b>	NO DATA.	

**SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1</b> <b>TOXICITY</b>	NOT ACUTELY TOXIC TO FISH (LC50>100MG/L OECD 203).
<b>12.2</b> <b>PERSISTENCE &amp; DEGRADABILITY</b>	THE PRODUCT IS NOT READILY BIODEGRADABLE.
<b>12.3</b> <b>Bio- ACCUMULATIVE POTENTIAL</b>	PARTITION COEFFICIENT 3.4 - 5.5
<b>12.4</b> <b>MOBILITY IN SOIL</b>	MOBILITY: LOG10KOC = 2.3-5.0
<b>12.5</b> <b>RESULTS OF PBT &amp; VPVB ASSESSMENT</b>	THIS SUBSTANCE DOES NOT MEET THE PBT/VPVB CRITERIA OF REACH, ANNEX XIII.
<b>12.6</b> <b>OTHER ADVERSE EFFECTS</b>	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.

**SECTION 13: DISPOSAL INFORMATION**

<b>13.1</b> <b>WASTE TREATMENT METHODS</b>	ALWAYS RECOVER SPILLED PRODUCT. DISCARD WASTE MATERIAL WITH AUTHORIZED WASTE MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.
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<b>SECTION 14: TRANSPORT INFORMATION</b>	
<b>14.1</b> TRANSPORT INFORMATION	
<b>UN NUMBER</b>	<b>ROAD: 1169</b> <b>RAIL: 1169</b> <b>AIR: 1169</b>
14.2 UN SHIPPING NAME	UN1169 EXTRACTS, AROMATIC, LIQUID (TEA TREE)
<b>14.3</b> TRANSPORT HAZARD CLASS(ES)	ADR/RID/ADN CLASS: 3 FLAMMABLE LIQUID. IMDG CLASS: 3 FLAMMABLE LIQUID. ICAO CLASS/DIVISION: 3 FLAMMABLE LIQUID.  TRANSPORT LABELS 
<b>14.4</b> PACKING GROUP	ADR/RID/ADN PACKING GROUP III IMDG PACKING GROUP III ICAO PACKING GROUP III
<b>14.5</b> ENVIROMENTAL HAZARDS	ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT  
<b>14.6</b> SPECIAL PRECAUTIONS FOR USER	EMS: F-E, S-D EMERGENCY ACTION CODE: 3YE HAZARD No (ADR): 30 FLAMMABLE LIQUID (FLASH-POINT BETWEEN 23°C AND 60°C, INCLUSIVE) OR FLAMMABLE LIQUID OR SOLID IN THE MOLTEN STATE WITH A FLASH-POINT ABOVE 60°C, HEATED TO A TEMPERATURE EQUAL TO OR ABOVE ITS FLASH-POINT, OR SELF HEATING LIQUID. TUNNEL RESTRICTION CODE: (D/E)
<b>14.7</b> TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NO ADDITIONAL DATA.
<b>SECTION 15: REGULATORY INFORMATION</b>	
<b>15.1</b> PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION	
<b>EU DIRECTIVES</b>	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 <sup>TH</sup> DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) No793/93 & COMMISSION REGULATION (EC) No1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).
<b>STATUTORY INSTRUMENTS</b>	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 No 716).

<b>APPROVED CODE OF PRACTICE</b>	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.
<b>GUIDANCE NOTES</b>	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
<b>15.2 CHEMICAL SAFETY ASSESSMENT</b>	-

## SECTION 16: OTHER INFORMATION

HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL	<p>H319 CAUSES SERIOUS EYE IRRITATION.  H315 CAUSES SKIN IRRITATION.  H226 FLAMMABLE LIQUID AND VAPOUR.  H302 HARMFUL IF SWALLOWED.  H402 HARMFUL TO AQUATIC LIFE.  H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.  H317 MAY CAUSE AN ALLERGIC SKIN REACTION.  H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.  H401 TOXIC TO AQUATIC LIFE.  H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.  H400 VERY TOXIC TO AQUATIC LIFE.</p>
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**TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.**

<b>ABBREVIATIONS &amp; ACRONYMS:</b>	
<b>MSDS</b>	MATERIAL SAFETY DATA SHEET.
<b>INCI</b>	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
<b>CAS</b>	CHEMICAL ABSTRACT SERVICE.
<b>IMDG</b>	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.
<b>ADR</b>	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).
<b>RID</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.
<b>ICAO</b>	INTERNATIONAL CIVIL AVIATION ORGANIZATION.
<b>ADN</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS.
<b>GHS</b>	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.
<b>TREM CARD</b>	TRANSPORT EMERGENCY CARD.
<b>STOT</b>	SPECIFIC TARGET ORGAN TOXICITY.

<b>DOCUMENTATION REVISION</b>	
DATE	CHANGE DESCRIPTION
10 <sup>TH</sup> APRIL 2018	DATA LAUNCH

*The attached information is considered to be correct at the time the client received this information. Please be aware that detail can change and we encourage clients to update their records with MADAR regularly. The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations. The information is not to be disclosed to others, reproduced or transmitted in whole or in part without permission from MADAR.*

## SPECIFICATION SHEET

**PRODUCT NAME:** TEA TREE (AFRICAN), ESSENTIAL OIL ORGANIC

**PRODUCT INCI:** MELALEUCA ALTERNIFOLIA LEAF

**PRODUCT CODE:** OCTEATREE

**CAS NUMBER:** 85085-48-9 / 68647-73-4

**EINECS NUMBER:** 285-377-1

**MANUFACTURING METHOD:** STEAM DISTILLED

### ANALYTICAL DETAILS

### RANGE

ANALYTICAL DETAILS	RANGE
APPEARANCE	LIQUID
COLOUR	COLOURLESS – PALE YELLOW
ODOUR	CHARACTERISTIC
SPECIFIC GRAVITY @ 20°C	0.885 – 0.906
REFRACTIVE INDEX @ 20°C	1.470 – 1.482
OPTICAL ROTATION (°C)	+5.0 TO +15.0
1.8 CINEOLE CONTENT (%)	MAX 5.0
TERPINENE-4-OL (%)	MIN 35.0

### STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

### DOCUMENTATION REVIEW DATE:

24<sup>TH</sup> MAY 2018

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## **Vegetarian & Vegan Suitability Statement**

PRODUCT NAME: TEA TREE (SOUTH AFRICAN), ESSENTIAL OIL

MADAR Corporation Limited can confirm that the above listed product has not been tested in animals and does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.

01/08/19