

Section 1: Product name and Identification

1.1 Product Name Tea tree oil

Trade names and synonyms Melaleuca oil, Melaleuca alternifolia oil, Melasol

EC-No: 285-377-1
CAS-No EU: 85085-48-9
CAS-No US: 68647-73-4
FEMA-No: 3902

1.2 Relevant identified uses of the substances or mixture Personal Care Formulations, Laboratory chemicals

1.3 Biological definition: Tea tree oil is an essential oil obtained from hydrodistillation of the leaves of the plant, *Melaleuca alternifolia*.

1.4 Details of the supplier of the safety data sheet

Company Name: Ayanda African Oils (Pty) Ltd
 Company Address: Windermere Farm, Emoyeni, 3800, South Africa
 Date Issued: 02/06/2015
 Emergency Telephone Number: +27 353407008, +27 84 4071570, +27 84 6228811
 E-mail: mat@ayandoils.com

Section 2: Hazard Identification

2.1.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008	Category	
Flammable liquids Flam. Liq. 3 (FL 3)	Category 3	H226
Acute Tox. 4 (ATO 4)	Category 4	H302
Asp. Tox. 1 (AH 1)	Category 1	H304
Skin Irrit. 2 (SCI 2)	Category 2	H315
Skin Sens. 1 (SS 1)	Category 1	H317
Eye Irrit. 2 (EDI 2)	Category 2	H319
Aquatic Chronic 2 (EH C2)	Category 1	H411





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2.1.2 - Additional information

CLP* classification system : According to Regulation (EC) n° 1272/2008 and appendices, and the current version of IFRA* / IOFI* Labelling Manual.

Information taken from specialist publications and information in the company's possession is also taken into account. Other hazards :See the recommendations concerning the storage of classified products .

For the full text of risk phrases, hazard classes and categories, and H and EUH hazard statements, see section 16.

2.2 Label elements (EC 1272/2008):

Hazardous pictogram(s)



GHS07



GHS08



GHS09



GHS02

Ayanda African Oils (Pty)
Reg No: 2017/655786/07
VAT no: 4040281596
Tel. Number: +27 +35 3407008



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 skin reaction
H319 – Causes serious eye irritation
H411 - Toxic to aquatic life with long-lasting effects

Signal word

DANGER

Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 - Avoid release to the environment
P270 - Do not eat, drink or smoke when using this product
P301 + P312 - IF SWALLOWED: Call a POISON centre or doctor/ physician if you feel unwell
P330 - Rinse mouth
P264 - Wash face, hands and any exposed skin thoroughly after handling
P332 + P313 - If skin irritation occurs: Get medical advice/ attention
P362 - Take off contaminated clothing and wash before reuse
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention
P321 - Specific treatment (see supplemental first aid instructions on this label)
P363 - Wash contaminated clothing before reuse
P273 - Avoid release to the environment
P301 + P310 - IF SWALLOWED: Immediately call a POISON centre or doctor/ physician
P331 - Do NOT induce vomiting
P405 - Store locked up
P391 – Collect spillage
P501 - Dispose of contents/ container to an approved waste disposal plant
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing



ADDITIONAL HAZARD INFORMATION(S)

Not regulated

2.3 - Other hazards

CMR* substances not requiring classification

Methyl eugenol (< 0,02%), See also section 11

Allergens (according to Annex III of Regulation(EC) N°1223/2009):

D-Limonene (0,50 to 4,00%), Linalool (<= 1,00%)

Section 3: Composition/Information on ingredients

Chemical name	EC-No	CAS-No	Weight percent	Classification (67/548/EEC)	GHS Classification (EC 1272/2008)	REACH Registration Number
Terpinene-4-ol	209-235-5	562-74-3	30-48	Xn;R22 Xi;R38	Skin Irrit. 2 (H315) Acute Tox. 4 (H302)	no data available
Gamma Terpinene	202-794-6	99-85-4	10-28	FL;R10 Xn;R65 Xi;R38 R43 N;R50/53;	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam Liq. 3 (H226)	no data available
Eucalyptol	207-431-5	470-82-6	1-15	FL;R10 Xi,Xn;R36;N	H303 H316 H319	no data available





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					Flam Liq. 3 (H226)	
Alpha Terpinene	202- 795-1	99-86-5	5-15	FL;R10 Xn;R65 Xi;R38 R43 N;R51/53;	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411) Flam Liq. 3 (H226)	no data available
Terpinolene	209- 578-0	586-62- 9	1-5	FL;R10 Xn;R65 N;R51/53	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam Liq. 3 (H226)	no data available
Para cymene	202- 796-7	99-87-6	1-5	FL;R10 Xn;R65 N;R51/53	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam Liq. 3 (H226)	no data available
Alpha Terpineol	202- 680-6	98-55-5	1-8	Xi;R38	Skin Irrit. 2 (H315)	no data available
Limonene	227- 813-5	5989- 27-5	0-2.5	FL;R10 Xn;R65 Xi;R38 R43 N;R50/53;	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam Liq. 3 (H226)	no data available





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Alpha Pinene	201- 291-9	80-56-8	1-6	FL;R10 Xn;R65 Xi;R43 N;R50/53	Asp. Tox. 1 (H304) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam Liq. 3 (H226)	no data available
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For the full text of the Hazard Statements mentioned in this Section, See Section 16

Section 4: First Aid measures

4.1 Discription of First aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance

Eye contact: Wash eyes by normal first aid procedures for at least 15 minutes and consult a physician

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes

Ingestion: Clean mouth with water, call a POISON CENTRE or physician. If swallowed, do not induce vomiting

Inhalation: Inhalation may cause coughing, tightness of chest and irritation of the respiratory system. Remove person to ventilated area and follow normal first aid procedures. Perform artificial respiration if breathing has stopped

Notes to physician: Treat symptomatically

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in labelling see section 2.2 and/or section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

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5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substances or mixtures

Forms carbon monoxide and/or dioxide upon burning

5.3 Unusual fire and Explosion Hazards

None, material is not pyrophoric, does not react with water, not an oxygen donor, material is shock stable

5.4 Advice for fire-fighters

Cool container exposed to the flame with water fog. Fire fighters should wear positive pressure self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains, water courses or onto the ground.

See Section 12 for additional Ecological Information



6.3 Methods and materials for containment and cleaning up

Small spills can be wiped up with paper rags (placed in closed metal waste container). Large spill: contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Large spills can also be collected with non combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and placed in metal container for disposal according to local/National regulations (see section 13).

7. Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Handle in accordance with good industrial hygiene and safety practise. For precautions see section 2.5

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place, keep container tightly closed in a dry and well-ventilated place. Store away from direct sunlight.

Store in stainless steel container, opaque glass container or Fluorinated HDPE container.
Stabilizers : Store under a nitrogen blanket if possible.

Air and light sensitive.

Storage class (TRGS 510): Combustible liquids

7.3 Specific end use(s)

Apart from the mentioned in section 1.2 no other specific uses are stipulated



Section 8. Exposure controls/ Personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure control

Engineering measures: Ensure adequate ventilation, especially in confined areas

Eye protection: Tightly fitting safety goggles

Hand protection: Protective gloves

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In cases of insufficient ventilation wear suitable respiratory equipment, otherwise none under normal use conditions

Hygiene measures: Handle in accordance with good industrial hygiene and safety practise

Environmental exposure controls The product should not be allowed to enter drains, water courses or the soil

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

a) Appearance	Form: liquid Colour: clear to light yellow
b) Odour	Characteristic piney odour
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezingpoint	-22 °C
f) Initial boiling point and boiling range	97-220°C
g) Flash point	55 °C (closed cup)
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	2100 Pa
l) Vapour density	Greater than air
m) Relative density	0,898 g/cm ³
n) Water solubility	insoluble
o) Partition coefficient: noctanol/water	No data available
p) Auto-ignition temperature	No data available





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q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available
u) Specific gravity (@ 20°C)	0.885 – 0.906
v) Refractive Index (@ 20°C)	1.475 – 1.482
w) Optical rotation (@ 20°C)	+5° to +15°

Section 10: Stability and reactivity:

10.1 Reactivity	Material does not react with water
10.2 Chemical stability	Stable under normal circumstances
10.3 Possibility of hazardous reactions:	No data available
10.4 Conditions to avoid	Heat, flames and sparks. Exposure to air or moisture over prolonged periods
10.5 Incompatible materials	Strong oxidising agents
10.6 Hazardous decomposition products	May produce toxic gases (hydrocarbons, carbon oxide) upon burning

Section 11: Toxicological information

Potential health effects

<i>Inhalation</i>	None known
<i>Eye contact</i>	None known
<i>Skin contact</i>	BEOA CHIP guidance (1997) gives hazard codes as R22 and R38 (some evidence of skin irritation above 75% concentration)
<i>Ingestion</i>	Harmful if swallowed. Potential for aspiration if swallowed Lethal dose 15kg (child) 32mL Lethal dose 70kg (adult) 148mL
<i>Germ cell mutagenicity</i>	None known

Information on toxicological effects

Acute toxicity:
LD50 Oral – Rat – 1900mg/kg
LD50 Dermal – Rabbit – 5000mg/kg

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC



Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

Inhalation May cause respiratory irritation

Specific target organ toxicity – repeated exposure

No data available

Information on ingredients

CMR* : Methyl eugenol (<= 0,02%)

Section 12: Ecological information

Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

Other adverse effects

No data available



Section 13 Disposal considerations

Product

Small spills can be wiped up with paper rags (placed in closed metal waste container). Large spill: contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Large spills can also be collected with non combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and placed in metal container for disposal according to local/National regulations. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solution to a licensed disposal company.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal

Section 14 Transport information

Sea (IMDG)

Proper shipping name	Extract, aromatic, Liquid
Hazardous class	3
UN/ID No	1169
Packing group	III

Land (ADR)

Proper shipping name	Extract, aromatic, Liquid
Hazardous class	3
UN/ID No	1169
Packing group	III

Air (IATA)

UN/ID No	1169
Proper shipping name	Extract, aromatic, Liquid
Hazardous class	3
Packing group	III



Section 15 Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
China	Complies
AICS	Complies
KECL	-

Legend

IATA

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

Federal and State Regulations: TSCA 8(b) inventory: Tea Tree Oil (Melaleuca Alternifolia)
Australian

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).



Section 16

Xn: Harmful

Xi: Irritant

N: Substances or preparation that are dangerous for the environment

R10: Flammable

R22: Harmful if Swallowed

R36/37/38: Irritating to Eyes, respiratory system and skin

R43 - May cause sensitisation by skin contact

R65 - Harmful: may cause lung damage if swallowed

FL – Flammable liquid

Risk Combination Phrases

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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 skin reaction

H319 – Causes serious eye irritation

H411 - Toxic to aquatic life with long-lasting effects

Issuing date: 12/09/2018

Revision Date:

Revision Note: not applicable

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

