



SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Last Revision Date 16.06.2023

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

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 substance or mixture and uses advised against

Identified uses: Personal Care Formulations, Laboratory chemicals, Manufacture of substances

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:	Physical Address:	Postal / Business Address:
	Inter-Agri Oils (Pty) Ltd Bushey Valley Farm	Inter-Agri Oils (Pty) Ltd P.O Box 1820
	P262 District Road, Oribi Flats	Port Shepstone
	Port Shepstone Rural District, KwaZulu-Natal 4240	KwaZulu-Natal 4240
	SOUTH AFRICA	SOUTH AFRICA
Telephone:	+27 10 823 2620	
Email:	sales@interagriols.com	

1.5 Emergency telephone number Emergency Phone #: +27 73 905 9574, +27 72 739 8642



2. HAZARDS IDENTIFICATION

2.1 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

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

Labelling according to Regulation (EC) No 1272/2008

Pictogram GHS07, GHS08, GHS09, GHS02



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%)



3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product Name: Tea Tree Oil

Synonyms: Melaleuca alternifolia

CAS-No.: 68647-73-4

EC Number: 285-377-1

Hazardous Components:

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 Flam Liq. 3 (H226)	no data available
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	no data available



					(H226)	
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
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

For the full text of the Hazard Statements mentioned in this Section, See Section 16.



4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

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

If inhaled

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. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

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

5. FIREFIGHTING 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.



6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
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.

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 uses

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

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 controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection



Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 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/freezing point	-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: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
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°



10. STABILITY AND REACTIVITY

10.1 Reactivity	Chemically stable, hazardous material. No significant reactivity hazard. 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	Light. Heat, flames, and sparks. Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods.
10.5 Incompatible materials	Strong oxidizing agents, strong acids, strong alkalis.
10.6 Hazardous decomposition products	May produce toxic gases (hydrocarbons, carbon oxide) upon burning.

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%)



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

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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 noncombustible 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



14. TRANSPORT INFORMATION

Sea (IMDG)

UN/ID No	1197
Proper shipping name	Extracts, Liquid
Hazardous class	3
Packing group	III

Land (ADR)

UN/ID No	1197
Proper shipping name	Extracts, Liquid
Hazardous class	3
Packing group	III

Air (IATA)

UN/ID No	1197
Proper shipping name	Extracts, Liquid
Hazardous class	3
Packing group	III

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).



16. OTHER INFORMATION

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

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Inter-Agri Oils (Pty) Ltd. and its partners shall not be held liable for any damage resulting from handling or from contact with the above product.