The Essential Oil Company

SAFETY DATA SHEET

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

1.1 PRODUCT IDENTIFIER

PRODUCT NAME: AUSTRALIAN TEA TREE OIL
BOTANICAL/CHEMICAL NAME: Melaleuca alternifolia
MOLECULAR WEIGHT: N/A
MOLECULAR FORMULA: N/A
CLP REFERENCE NUMBER N/A
REACH REGISTRATION NUMBER N/A
REACH PREREGISTRATION NUMBER N/A
APPLICATION OF THE SUBSTANCE: Food/Flavor, Fragrance application
CAS No (TSCA) 8022-72-8; 68647-73-4
EINEC 285-377-1
FEMA No 3902
FDA No N/A

1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

The Essential Oil Company
9225 SE 7the Ave.
Portland, Oregon 97212
503-872-8772

FOR FURTHER INFORMATION, PLEASE CONTACT:

E-mail address: Robert Seidel: robert@essentialoil.com

EMERGENCY TELEPHONE NUMBER

800-729-5912
2. HAZARDS IDENTIFICATION

Classification
Classification of the substance / preparation
Classification according to Regulation (EC) No. 1272/2008
FL 3, ATO 4(1900), AH 1, SCI 2, EDI 2A, SS 1, EH A2, EH C3 -

Classification according to Directive 67/548/EEC or 1999/45/EC
Xn+N R10 – 22 – 38 – 43 - 51/53 - 65

Label elements, including precautionary statements

Label Elements
Label elements according to Regulation (EC) No. 1272/2008

Classification system:
The classification is according to the latest editions of EU lists, and extended by
company and literature data.

Additional Information:
See section 16 for the wordings of listed R-, S-phrases, H-statements and Hazard
codes.

Emergency Overview
**Precautionary Statements – Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed in workplace
Keep away from heat/sparks/open flames/hot surfaces. –No smoking

**Precautionary Statements – Response**
Specific treatment (see section 4 on this label)
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF SWALLOWED: Immediately call POISON CENTER or doctor/physician
Do not induce vomiting
In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements – Storage**
Store locked up
Store in well-ventilated place. Keep cool

**Precautionary Statements – Disposal**
Dispose of contents/container to an approved disposal plant

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th><strong>Product Description:</strong></th>
<th>Essential Oil; UVCB; Substance of biological origin with variable and partially unknown composition.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazard Impurities:</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Content of R65 classified products:</strong></td>
<td>50%</td>
</tr>
</tbody>
</table>
| **Dangerous components:** | TERPINENE – 4 - OL (CAS No 562 – 74 - 3)Xn,R22 - 38; Amount: min 30%
  |
|                          | ALPHA TERPINENE (CAS No 99 – 86 - 5) Xn+N,R (10) – 22 - 51/53 -65; Amount: 5 -13% 1,8 - CINEOL (CAS No 470 – 82 - 6) Xi,R10 - 43; Amount: max 15% |
First aid measures for different exposure routes

**General Advice**
If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or clothing.

**Eye contact**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin contact**
Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required.

**Inhalation**
Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Consult a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

**Ingestion**
Do not induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

**Protection of first-aiders**
Use personal protective equipment.

**Indication of immediate medical attention and special treatment needed, if necessary**
**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**
Use: Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol-resistant foam.

**Unsuitable Extinguishing Media**
Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from chemical**
Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Keep product and empty container away from heat and sources of ignition. Risk of ignition. Do not smoke. Do not expose to naked flame.

**Explosion Data**
- Sensitivity of Mechanical Impact: None
- Sensitivity to Static Discharge: None

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharge.

**Environmental precautions**
### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### Methods and materials for containment and cleaning up

#### Methods for containment

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges. Ensure adequate ventilation.

### Reference to other sections

Refer to section 7, 8 & 13

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### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling**

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Take necessary action to avoid static discharge (which might cause ignition of organic vapors).

**Conditions for safe handling**

**Technical measures/Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children. Keep away from heat and sources of ignition. Keep
containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from heat.

Incompatible products
None known based on information supplied.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters

Exposure guidelines
This product does not contain hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Exposure controls

Engineering measures
Showers
Eye wash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Tightly fitting goggles. Face-shield

Skin and body protection
Chemical resistant apron

Respiratory protection
If exposure limits are exceeded for irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures
When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work are and clothing. Remove and wash contaminated clothing before re-use.
Environmental exposure controls
Prevent entry into drains, ground/surface water or sewerage system

| 9. PHYSICAL AND CHEMICAL PROPERTIES |

**9.1 Information On Basic Physical And Chemical Properties**

- **Physical State @20°C**: Liquid
- **Appearance**: Colorless to pale yellow
- **Odor**: Characteristic
- **Odor Threshold**: No information available
- **pH**: No information available
- **Optical Rotation**: -5° to +15°
- **Melting point/range**: No information available
- **Freezing Point**: No information available
- **Initial boiling point**: No information available
- **Boiling point/boiling range**: No information available
- **Flashpoint**: 60°C
<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Specific Gravity</td>
<td>0.8850 – 0.9060 @20°C</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.475 – 1.482 @20°C</td>
</tr>
<tr>
<td>Evaporation Rate VALUE</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammable Properties</td>
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</tr>
<tr>
<td>Flammability limits in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive Properties</td>
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<tr>
<td>Oxidizing Properties</td>
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<tr>
<td>Vapor Pressure @20°C</td>
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<td>Vapor Density</td>
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<td>Water Solubility</td>
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<tr>
<td>Solubility</td>
<td>Soluble in Alcohol</td>
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<td>Partition coefficient:</td>
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</tr>
<tr>
<td>Autoignition temperature</td>
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<tr>
<td>Decomposition Temperature ºC</td>
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<tr>
<td>Viscosity, dynamic</td>
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<tr>
<td>Molecular Weight</td>
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</tr>
<tr>
<td>VOC Content</td>
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</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Not reactive, stable at room temperature

Chemical stability
Stable under recommended storage conditions

Possibility of hazardous reactions
Reactions with strong oxidizers

Conditions to avoid
Heat, flames and sparks
Incompatible materials
Avoid strong acids strong bases and all oxidizing agents

Hazardous decomposition products
No dangerous decomposition products expected by intended use

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product information
Product does not present an acute toxicity hazard based on known information

Inhalation
There is no data available for this product

Eye contact
There is no data available for this product

Skin contact
There is no data available for this product

Ingestion
There is no data available for this product

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LG50 inhalation</th>
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<tbody>
<tr>
<td>Tea Tree Oil</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization
No information available

Mutagenic effects
No information available

Carcinogenicity
No information available

Reproductive Toxicity
No information available

Specific target organ systemic toxicity (single exposure)
No information available
Specific target organ systemic toxicity (repeated exposure)

No information available

Chronic toxicity

Repeated exposure may cause allergic reactions in very susceptible persons. Avoid repeated exposure

Aspiration hazard

No information available

CMR Effects

Carcinogen

No information available

Mutagen

No information available

Reprotoxic

No information available

Exposure Limits

Note: There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been established

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
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</thead>
<tbody>
<tr>
<td>Tea Tree Oil</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Persistence and degradability

No information available

Bioaccumulation
13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste disposal methods
Dispose of in accordance with local regulations

Contaminated packaging
Do not re-use empty containers

Recommendations:
Empty contaminated packing thoroughly as they may be recycled.
Moistened solids to be disposed of adhering to necessary technical regulations after consulting concerned authorities

14. TRANSPORTATION INFORMATION

DOT

BULK PACKAGING

Marine Pollutant not regulated

DOT

NON BULK PACKAGING

Marine Pollutant not regulated

IMDG/IMO

UN Number 2319

Proper shipping name Terpene Hydrocarbons

Hazard Classification 3

Packaging Group III
Marine Pollutant: Yes

MEX
UN Number: 2319
Proper shipping name: Terpene Hydrocarbons
Hazard Classification: 3
Packaging Group: III

ICAO
UN Number: 2319
Proper shipping name: Terpene Hydrocarbons
Hazard Classification: 3
Packaging Group: III

ICAO/IATA
UN Number: 2319
Proper shipping name: Terpene Hydrocarbons
Hazard Classification: 3
Packaging Group: III

TDG
UN Number: 2319
Proper shipping name: Terpene Hydrocarbons
Hazard Classification: 3
Packaging Group: III

RID
UN Number: 2319
Proper shipping name: Terpene Hydrocarbons
Hazard Classification 3
Packaging Group III

**ADR/RID**
UN Number 2319
Proper shipping name Terpene Hydrocarbons
Hazard Classification 3
Packaging Group III

**AND**
UN Number 2319
Proper shipping name Terpene Hydrocarbons
Hazard Classification 3
Packaging Group III

**ADR/IMDG/IATA Labels:**

**Special precautions for users:**

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before re-use. Prevent entry into drains, ground/surface water or sewerage system.

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**15. REGULATORY INFORMATION**

**EU regulations**

This product has been classified and marked in accordance with the EU Directives/Ordinance on Hazardous Materials.

**Internal Inventories**
<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENCS</td>
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<td></td>
</tr>
<tr>
<td>IECSC</td>
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<tr>
<td>KECL</td>
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</tr>
<tr>
<td>PICCS</td>
<td></td>
<td></td>
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<tr>
<td>AICS</td>
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</tbody>
</table>

**Legend:**

- **TSCA** – United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** – Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS** – European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
- **ENCS** – Japan Existing and New Chemical Substances
- **IECSC** – China Inventory of Existing Chemical Substances
- **KECL** – Korean Existing and Evaluated Chemical Substances
- **PICCS** – Philippines Inventory of Chemicals and Chemical Substances
- **AICS** – Australian Inventory of Chemical Substances

**Sudden Release of Pressure Hazard**

<table>
<thead>
<tr>
<th></th>
<th>No</th>
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</thead>
<tbody>
<tr>
<td><strong>Reactive Hazard</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Clean Water ACT**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization ACT (SARA) (40 CFR 355). There may be specific reporting
requirements at the local, regional or state level pertaining to releases of this material.

**California Proposition 65**

This product does not contain any Proposition 65 Chemicals

### 16. OTHER INFORMATION

**Hazards**

Irritant, dangerous for the environment

**Symbols:**

Xn; N

**Relevant R – and S phrases**

- **R10** FLAMMABLE.
- **R22** HARMFUL IF SWALLOWED.
- **R38** IRRITATING TO SKIN.
- **R43** MAY CAUSE SENSITIZATION BY SKIN CONTACT.
- **R65** HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
- **R51/53** TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
- **S24** AVOID CONTACT WITH SKIN.
- **S61** AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.
- **S62** IF SWALLOWED, DO NOT INDUCE VOMITTING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.
- **S36/37** WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES

**Relevant H-, P Statements and Hazard Codes**

- **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
H401  TOXIC TO AQUATIC LIFE
H411  TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS
P210  KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES – NO SMOKING
P233  KEEP CONTAINER TIGHTLY CLOSED
P241  USE EXPLOSION - PROOF ELECTRICAL/VENTILATING/LIGHT/... /EQUIPMENT
P242  USE ONLY NON - SPARKING TOOLS
P243  TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE
P261  AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY
P264  WASH ... 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
P330  RINSE MOUTH
P331  DO NOT INDUCE VOMITING
P362  TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE
P363  WASH CONTAMINATED CLOTHING BEFORE REUSE
P391  COLLECT SPILLAGE
P301+310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

P301+312 IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL

P302+352 IF ON SKIN: WASH WITH SOAP AND WATER

P303+361+353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER

P305+351+338 IF IN EYES: RINSE CONTINUOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO – CONTINUE RINSING

P332+313 IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION

P333+313 IF SKIN IRRITATION OR A RASH OCCURS: GET MEDICAL ADVICE/ATTENTION

P405 STORE LOCKED UP

FL 3 FLAMMABLE LIQUID 3

ATO 4 ACUTE TOXICITY ORAL 4

SCI 2 SKIN IRRITANT 2

EDI 2A EYE IRRITANT 2A

SS 1 SKIN SENSITISATION 1

AH 1 ASPIRATION HAZARD CATEGORY 1

EH A2 ACUTE AQUATIC TOXICITY 2

EH C2 CHRONIC AQUATIC TOXICITY 2

Revision Date 7/25/15

Revision Note No information available

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this 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.

End of Safety Data Sheet