SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product name: Tea Tree Essential Oil  
Product code: 302-105X

1.2 Intended use: Compound used in customer substance/mixture/product.

1.3 Supplier: Majestic Mountain Sage Inc  
2490 S 1350 W  
Nibley, 84321 - United States of America  
T 435.755.0863 - F 435.755.2108  
www.TheSage.com

1.4 Emergency telephone number  
No additional information available

SECTION 2: Hazards Identification

2.1 Hazard Classification  
Classified as Hazardous according to the criteria of NOHSC Australia. Classified as Dangerous Goods for the purpose of transport by road or rail. Hazardous in case of skin contact (irritant), of eye contact (irritant).

2.2 Label Elements

2.3 Risk Phrases  
R10 Flammable  
R22 Harmful if swallowed  
R36/37/38 Irritating to eyes, respiratory system and skin
2.4 Safety Phrases
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Center.
S36 Wear suitable protective clothing

2.5 HAG Phrases
(9) Form: Liquid
(15) Flammable
(18) Combustible
(51) Does not mix with water
(62) Avoid personal/skin contact
(83) Fire fighting: foam
(85) Fire fighting: dry agent

RTECS Number: RJ3697600

SECTION 3: Composition/information on ingredients

3.1 Chemical Identity Melaleuca Oil (tea-tree oil), ISO 4730:2004
3.2 Common Names Melaleuca oil, Tea tree (Melaleuca Alternifolia) Oil, T36-C7, teebaumol
3.3 CAS # / EINICS # 68647-73-4 / 285-3771

SECTION 4: First aid measures

Poison Information Centers can provide additional assistance.

4.1 Eye Contact Irrigate with copious amounts of water. Seek immediate medical attention.
4.2 Inhalation If over-exposure occurs, leave exposure area immediately. If other than minor symptoms are displayed seek immediate medical attention.
4.3 Skin Contact Gently flush affected areas with water. Remove contaminated clothing and wash thoroughly before reuse. Seek medical attention if irritation develops.
4.4 Ingestion If swallowed do NOT induce vomiting. Give a glass of water. Seek immediate medical attention.
4.5 Facilities Eye wash facilities and safety shower are recommended.

SECTION 5: Firefighting measures

5.1 Suitable Extinguishing Media
Dry agent, carbon dioxide, foam or water fog. Do not use full water jet.
5.2 Hazards from Combustion Products
Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3 Precautions and Special Protective Equipment
Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self-Contained Breathing Apparatus when combating fire. Use water fog to cool intact containers and nearby storage areas.

5.4 Hazchem Code
3(Y)

6.1 Spillage
In case of spillage (bulk), wear splash-proof goggles, PVC/rubber gloves, coveralls and rubber boots (see Section 8). Keep people away, evacuate area.

6.2 Containment and Clean up
Absorb spill with sand or similar, collect and place in sealable containers using non-sparking tools and transport outdoors for disposal. Ventilate area and wash spill site after material pickup is complete. Prevent spill from entering drains or waterways. Caution: surfaces are slippery after spill.

7.1 Handling
Measures should be taken to prevent materials from being splashed into the eyes or on the skin. Wear goggles and protective clothing. Smoking should not be permitted in work areas. Provide adequate ventilation.

7.2 Storage
Store in a cool, dry, well-ventilated area, away from oxidizing agents (e.g. hypochlorites), acids (e.g. sulfuric acid), heat and light sources, and foodstuffs. Ensure containers are adequately labeled, protected from physical damage and sealed when not in use. Keep only in original container. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation systems.
SECTION 8: Exposure controls/personal protection

8.1 National Exposure Standards
No exposure standard allocated

8.2 Biological Limits
No biological limit allocated

8.3 Engineering Controls
Ensure adequate ventilation. In poorly ventilated areas, mechanical explosion-proof extraction ventilation is recommended. Keep containers closed when not in use.

8.4 PPE
Wear coveralls, splash-proof goggles and PVC or rubber glove. Where an inhalation risk exists, wear a Type A (organic vapor) Respirator. In a laboratory situation, wear a laboratory coat.

SECTION 9: Physical and chemical properties

9.1 Physical and chemical properties
Appearance  Colorless to pale yellow liquid
Odor  Characteristic, myristic
Solubility  Insoluble in water, 1 part miscible with 2 parts ethanol (85% v/v) at 20°C
PH  Not applicable
Vapor Pressure  2100 Pa
Vapor Density  Not available
Boiling Point/Range  97°C - 220°C
Freezing Point  -22°C
Specific Density  0.885 - 0.906 at 20°C
Flash Point PMCC  57°C - 60°C (closed cup
(ASTM D93)
Flash Point COC  72°C (Cleveland open cup (IP36))
(ASTM D92)
Fire Point COC  72°C (Cleveland open cup (IP36))
(ASTM D92)
Upper Flammable Limit in air  Not available
Lower Flammable Limit in air  Not available
Autoignition Temperature  252°C
Partition Co-Efficient  Log 10 POW= 3.4 - 5.5
Specific Heat Value  Not available
Percent Volatile  100%
SECTION 10: Stability and reactivity

10.1 Chemical Stability
Stable

10.2 Conditions to Avoid
Heat, light, open flames and other sources of ignition.

10.3 Incompatible Materials
Strong oxidizing or reducing agents. Protect from air.

10.4 Hazardous Decomposition Products
Carbon monoxide and carbon dioxide (from combustion).

10.5 Hazardous Reactions
Hazardous polymerization will not occur.

SECTION 11: Toxicological information

11.1 Acute Effects

<table>
<thead>
<tr>
<th>Effect Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact</td>
<td>Severe irritant</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Potential irritant. May cause erythema, irritation, or oedema IF oil is oxidized. Repeated or prolonged skin contact may lead to allergic contact dermatitis.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Potential irritant. Over-exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed. Swallowing can result in allergic dermatitis, hallucinations, ataxia, diarrhea, central nervous system depression, sleep or coma.</td>
</tr>
</tbody>
</table>

11.2 Acute Toxicity

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ear TD (guinea pig)</td>
<td>100% (instilled for 30 min)</td>
</tr>
<tr>
<td>Toxic Effects</td>
<td>D40 (change in acuity) 11</td>
</tr>
<tr>
<td>Dermal LD50 (rabbit)</td>
<td>&gt;5 g/kg1</td>
</tr>
<tr>
<td>Dermal LDLo (rabbit)</td>
<td>5 g/kg1</td>
</tr>
<tr>
<td>Dermal TD (cat)</td>
<td>5-7 mL/kg2</td>
</tr>
<tr>
<td>Toxic Effects</td>
<td>F19 (ataxia); P72 (changes in leucocyte count)</td>
</tr>
<tr>
<td>Dermal TD (dog)</td>
<td>0.143 - 0.164 g/kg3</td>
</tr>
</tbody>
</table>
Toxic Effects F07 (somnolence), F19 (ataxia), partial paralysis
Dermal TD (human adult) >25% (in white soft paraffin, applied for 21 d) 4
Oral LD50 (rat) 1.9 g/kg (1.4 - 2.7 g/kg)1
Oral LD50 (rat) 1.9 - 2.6 g/kg13
Oral TD (rat) 1.5 g/kg5
Toxic Effects F07 (somnolence), F18 (muscle weakness), F19 (ataxia), partial paralysis
Oral TD (human adult) 21 mL/kg (after repeated low dose exposure) 6
Toxic Effects P20 (changes in cell count (unspecified)); R01 (dermatitis, allergic); R03 (dermatitis, other) 4
Oral TD (human adult) 0.5 - 1.0 mL/kg7
Toxic Effects F08 (hallucinations, distorted perceptions); F24 (coma); K12 (hypermotility, diarrhea)
Oral TD (human child) 0.5 mL/kg8
Toxic Effects F04 (sleep); F19 (ataxia)
Oral TD (human child) 0.5 mL/kg9
Toxic Effects F08 (hallucinations, distorted perceptions; F19 (ataxia)5
Oral TD (human child) 0.6 mL/kg (approx.) 10
Toxic Effects F07 (somnolence), F19 (ataxia), F24 (coma)

11.3 Chronic Toxicity
No information available

11.4 Sensitization Potential
Low (modified FCA method, guinea pig model) 12

11.5 Other
Not mutagenic as determined by the AMES test; Micronucleus Assay OECD474.
*see Toxic Effects Code from the Registry of Toxic Effects of Chemical Substances (RTECS).

SECTION 12: Ecological information

12.1 Ecotoxicity
Not acutely toxic to fish (LC50 > 100 mg/l OECD 206)

12.2 Persistence/Degradability
Readily biodegradable (OECD301F)

12.3 Mobility
Log 10 KOC= 2.3 - 5.0 EEC C19, OECD Method 12114
SECTION 13: Disposal considerations

13.1 Disposal Methods
Dispose of small amounts at an approved landfill site. For larger amounts contact a licensed professional waste disposal service.

13.2 Precautions
Prevent contamination of drains or waterways.

SECTION 14: Transport information

14.1 Transport Information
UN Number 2319
UN Proper Shipping Name Terpene Hydrocarbons, N.O.S. (Tea Tree Oil)
UN Packing Group III
ADG Proper Shipping Name Not listed in ADG code
Class and Subsidiary Risk(s) Class 3. No subsidiary risks listed.
Hazchem 3(Y)
EPG 3A1

14.2 Special Precautions for User
Classified as dangerous goods for the purpose of transport by road or rail. Class 3 Flammable Liquid. Do not transport with chemicals of class: 1 (Explosives), 2.1/2.3 (Flammable/Toxic gases), 4.2 (Spontaneously combustibles), 5.1 (Oxidizing agents), 5.2 (Organic peroxides), 6 (Toxics), 7 (Radioactives) and foodstuffs.

SECTION 15: Regulatory information

15.1 Poison Schedule 6
15.2 AICS This material is listed on the Australian Inventory of Chemical Substances.
15.3 EINECS This material is listed on the European Inventory of Existing Commercial Substances.

SECTION 16: Other information

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

16.2 Other Regulations
16.3 Other Classifications

DSCL (EEC): R10 - Flammable, R22 - Harmful if Swallowed, R36/38 - Irritating to eyes and skin.

**HMIS (USA):**
- Health Hazard: 2
- Fire Hazard: 2
- Reactivity: 0
- Personal Protection: J

**National Fire Protection Association (USA):**
- Health: 2
- Flammability: 2
- Reactivity: 0

Notes:
This safety data sheet is based on the properties of the material known at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment holds no responsibility. This document is not intended for quality assurance purposes.