



Tea Tree Essential Oil

Safety Data Sheet

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)

SECTION 6: Accidental release measures

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.

SECTION 7: Handling and storage

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 (ASTM D93)	57°C - 60°C (closed cup)
Flash Point COC (ASTM D92)	72°C (Cleveland open cup (IP36))
Fire Point COC (ASTM D92)	72°C (Cleveland open cup (IP36))
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%

Refractive Index	1,475 0 - 1,482 0 at 20°C
Viscosity - Kinematic	2.86 mm ² /s @ 20°C and 1.71 mm ² /s @ 40°C
Dynamic	2.54 mPa.s @ 20°C and 1.52 mPa.s @ 40°C
Optical Rotation	Between +5° and +15° at 20°C

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

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

11.2 Acute Toxicity

Ear TD (guinea pig)	100% (instilled for 30 min)
Toxic Effects	D40 (change in acuity) 11
Dermal LD50 (rabbit)	>5 g/kg ¹
Dermal LDLo (rabbit)	5 g/kg ¹
Dermal TD (cat)	5-7 mL/kg ²
Toxic Effects	F19 (ataxia); P72 (changes in leucocyte count)
Dermal TD (dog)	0.143 - 0.164 g/kg ³

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

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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

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

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.