



Humco Holding Group, Inc.
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24-Hour Emergency Number (CHEMTREC)
USA- 800-424-9300
All non-emergency calls should be directed to
Customer Service at 800-662-3435

NAME: TEA TREE OIL

SDS NO. 4817

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tea Tree Oil

Synonyms: Melaleuca oil, *Melaleuca alternifolia* oil

Recommended Use: Topical antibacterial, antiseptic and anti-inflammatory agent

Manufacturer by: Humco Holding Group, Inc.

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2. HAZARD IDENTIFICATION

Pictogram:	
Classification:	Flammable Liquid: Category 3 Acute toxicity: Category 4 Mildly irritating to eyes: Category 2B Irritating to skin: Category 2
Signal Word:	Warning
Hazard Statements:	H226: Flammable liquid and vapor; H302: Harmful if swallowed; H320: Causes eye irritation; H315: Causes skin irritation
Precautionary Statements Prevention:	P210: Keep away from heat/sparks/open flames/hot surfaces.-No Smoking P233: Keep container tightly closed P240: Ground/bond container and receiving equipment

<u>Response:</u>	<p>P242: Use only non-sparking tools</p> <p>P241: Use explosion proof electrical/venting/lighting equipment</p> <p>P243: Take precautionary measures against static discharge</p> <p>P270: Do not eat, drink or smoke when using this product</p> <p>P264: Wash thoroughly after handling</p> <p>P280: Wear protective gloves/eye protection/face protection</p> <p>P301+P312: IF SWALLOWED: call a POISON Center or doctor/physician if you feel unwell</p> <p>P303+P361+P353: IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously for several minutes, remove contact lenses, if present & easy to do, continue rinsing.</p> <p>P313+P317: If eye irritation persists, get medical attention, P330: Rinse mouth</p> <p>P370+P378: In case of fire: Use [appropriate media] for extinction</p>
<u>Storage:</u>	P403+P235: Store in a well-ventilated place, keep cool.
<u>Disposal:</u>	P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Health Hazards or Risks from Exposure:

Acute:	Prolonged contact with this product may cause irritation to the skin. Contact with eyes may cause mild irritation or redness. This product may be harmful if swallowed.
Chronic:	None known

3. COMPOSITION / INGREDIENTS

CHEMICAL NAME	CAS#
TEA TREE OIL	68647-73-4

The exact percentage has been withheld as a trade secret

4. FIRST-AID MEASURES

Individuals contaminated by chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention if necessary. Take a copy of the label and SDS to the health professional with contaminated individual.

Symptoms caused by exposure

Human adult: Hallucination, distorted perception, coma, diarrhea, allergic dermatitis

Human child: Hallucination, distorted perception, sleep, ataxia, coma, somnolence, diarrhea

ROUTE	COMMON SYMPTOMS	FIRST AID
Eye Contact	Causes mild eye irritation	If in the eyes, open victims' eyes while under gentle running water. Use sufficient force to open eyelids. Flush for a minimum of fifteen (15) minutes. Remove contact lenses if worn and accessible. Seek immediate medical attention if irritation persists.
Skin Contact	Not determined	Wash contacted area thoroughly with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops.
Inhalation	Not determined	If fumes or vapors are inhaled, or breathing difficulty is experienced, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek immediate medical attention if breathing difficulty persists.
Ingestion	Not determined	If the chemical is swallowed, call a physician or poison control center for the most current information. If no professional advice is available, DO NOT induce vomiting, rinse the mouth. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions or who cannot swallow. Victims of chemical exposure must be taken for medical attention. Take a copy of the label and SDS with the victim to a health professional.

Medical Conditions aggravated by exposure: Pre-existing skin, eye or respiratory problems may be aggravated by prolonged contact

Recommendation to Physicians: Treat symptoms and eliminate exposure

5. FIRE-FIGHTING MEASURES

Flash Point:	59°C (138°F)
Auto Ignition:	Not determined
Suitable fire extinguishing materials:	Carbon dioxide, foam, dry chemical, halon or water fog/mist
Unsuitable fire extinguishing materials:	Do not use full water jet
Unusual fire and explosion hazards:	This product is flammable & vapors may travel some distance and flash back if ignited
Explosion sensitivity to mechanical impact:	Not sensitive
Explosion sensitivity to static discharge:	Sensitive

Specific hazards arising from the substance:	May produce toxic fumes of carbon monoxide and/or carbon dioxide and hydrocarbons if burning.
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Special firefighting procedures: Incipient fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise keep containers cool with carefully applied water spray/mist. If possible, prevent runoff water from entering storm drains, bodies of water from entering storm drains, bodies of water or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Proper protective equipment should be used (see Section 8: Personal Protection). Personnel should be trained for spill response operations.
Emergency Procedures:	Trained personnel following pre-planned procedures should handle non-incident releases.
Spill Containment/Cleanup:	Contain spilled material using poly-pads or other suitable absorbent material. Avoid generating mists or sprays. Place all spill residues in an appropriate container and seal. Ventilate area and wash spill area after material pickup is complete.
Environmental Precautions:	Prevent run-off into drains and waterways. Decontaminate area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State and Local procedures (see Section 13).

7. HANDLING AND STORAGE

Work Practices and Hygiene Practices: Read all labels before use. As with all chemicals; avoid getting this product on you or in you. Wear personal protective equipment (see Section 8) and wash thoroughly after handling this product. Do not eat, drink, smoke or apply cosmetics while handling this product. Avoid breathing mists or sprays generated by this product. Use in a well ventilated location. Remove contaminated clothing immediately.

Storage and Handling Practices: Observe all Federal and State regulations pertaining to the storage and handling of flammable liquids. Store in a cool, dry, well ventilated area away from direct sunlight. Keep containers tightly closed when not in use. Store away from sources of heat or ignition (sparks, open flame, hot surfaces). Store away from incompatible materials (oxidizing agents and acids). Inspect regularly for damage and leaks. Take precautionary measures against static discharge: Ground container and receiving equipment, use only non-sparking tools and use explosion-proof electrical and other equipment.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and Engineering Controls:	Normal room ventilation is usually adequate under
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	normal use.
Personal Protective Equipment (PPE):	
Eye/Face Protection:	Splash goggles or safety glasses with side shields are recommended. If necessary, refer to US OSHA Standard 29 CFR 1910.133.
Hand Protection:	Compatible protective gloves are recommended. Wash hands after removing gloves. If necessary, refer to US OSHA 29 CFR 1910.138.
Body Protection:	Use body protection appropriate to the task. Coveralls, rubber aprons or chemical protective clothing made from natural rubber are generally acceptable depending on the task. If a hazard of injury to the feet exists due to falling objects, rolling objects or where objects may pierce the soles of the feet or where an employee's feet may be exposed to electrical hazards, use foot protection in accordance with US OSHA 29 CFR 1910.136.
Respiratory Protection:	None needed under normal use. If exposure limits are exceeded, use only respiratory protection authorized in the US Federal OSHA Respiratory Standard 29 CFR 1910.134.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale to light yellow liquid	Upper/Lower Flammability:	Not determined
Odor:	Characteristic tea tree oil odor; warm, spicy odor	Vapor Pressure	2100 Pa
Odor Threshold:	Mild	Vapor Density:	Not determined
pH:	Not determined	Relative Density:	0.891 at 20°C
Melting point /Freezing Point:	Not applicable (liquid at room temperature); -22°C	Solubilities:	Insoluble in water, 1 part miscible with 2 parts ethanol (85% v/v) at 20°C
Boiling point/range:	97°C — 220°C	Partition coefficient: n-octanol/water:	Log ₁₀ P _{OW} = 3.4 — 5.5
Flash point	59°C (Pensky-Martens closed cup)	Auto-ignition temperature	269°C
Evaporation rate	Not determined	Decomposition Temperature:	Not determined
Flammability:	55°C (Cleveland open cup)	Viscosity	2.86 mm ² /s at 20°C and 1.71 mm ² /s at 40°C

10. STABILITY AND REACTIVITY

Reactivity:	None known
Chemical stability:	Stable under ordinary conditions of use and storage [normal ambient temperatures (70°F)]
Conditions to avoid:	Excessive heat, sparks, flames and other sources of ignition
Incompatible materials:	Strong oxidizing or reducing agents. Protect from air
Hazardous depolymerisation:	Will not occur
Hazardous decomposition products:	When heated, decomposition may produce hydrocarbons, CO and/or CO ₂

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure and symptoms related to exposure

Eye contact:	Mild irritant. May cause redness, irritation or edema
Skin contact:	Potential irritant. May cause erythema, irritation or edema 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 overdose:	May be harmful if swallowed. May result in allergic dermatitis, hallucination, ataxia, diarrhea, central nervous system depression, sleep or coma

Measures of toxicity

Acute oral toxicity:	Oral LD ₅₀ rat:	1900 mg/kg
Skin corrosion/irritation:	Dermal LD ₅₀ rabbit:	>5000 mg/kg
Eye damage/irritation	HET-CAM	Mild irritant
Dermal Toxic Dose:	Feline:	5-7 mL/kg
Dermal Toxic Dose:	Canine:	0.143-0.164g/kg
Dermal Toxic Dose:	Human adult:	>25% (in white paraffin applied for 21 days)
Oral Toxic Dose:	Human adult:	0.5-1.0mL/kg after repeated low dose exposure
Oral Toxic Dose (1):	Human child:	0.5mL/kg
Oral Toxic Dose (2):	Human child:	Approx. 0.6mL/kg

Toxic effects

Rat:	Somnolence, muscle weakness, ataxia, partial paralysis
Feline:	Ataxia, change to leucocyte count
Canine:	Somnolence, ataxia, partial paralysis
Human adult:	Hallucination, distorted perception, coma, diarrhea, allergic dermatitis
Human child:	Hallucination, distorted perception, sleep, ataxia, coma, somnolence, diarrhea

Carcinogenicity: The components of this product are not listed by agencies tracking the carcinogenic potential of chemical compounds as follows:

NTP Regulated: No

IARC Regulated: No

OSHA Regulated: No

Reproductive Toxicity Effects of this product and its components on the human reproductive system:

Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans

Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans

Teratogenicity: The components of this product are not reported to produce teratogenic effects in humans

Reproductive

Toxicity: The components of this product are not reported to produce reproductive effects in humans

STOT: single exposure: No valid data

STOT: repeated exposure: No valid data

Aspiration hazard: No valid data

12. ECOLOGICAL INFORMATION

All work practices must be aimed at eliminating environmental contamination

Environmental Toxicity:	Not acutely toxic to fish LC ₅₀ > 100mg/L (OECD 203)
Environmental Fate:	May cause adverse side effects in an aquatic environment, biodegradable in seawater
Persistence and Degradability:	This product is readily biodegradable (OECD 301F)
Mobility in Soil:	No data available
Other Adverse Effects:	None known

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local laws and regulations. Avoid release into environment. Prevent contamination of drains and/or waterways.

14. TRANSPORT INFORMATION

UN Proper Shipping Name:	Terpenes, Hydrocarbons, N.O.S. (Tea Tree Oil)
UN Number:	2319
UN Transport Hazard Class(es):	Flammable liquids category 3
UN Packing Group:	III
Environmental Hazards:	May cause adverse effects in aquatic environments. This product is biodegradable.
Special precautions:	Do not freeze, avoid extreme heat

IATA and IMO Labelling Requirements: Flammable Label (Flame pictogram)
Aircraft Restrictions: Passenger Aircraft 60 liters, Cargo Aircraft 220 Liters

US Dept. of Transport (DOT) Shipping Regulations: This product is classified as **Dangerous Goods** per DOT regulations under 49 CFR 172.101.

Transport Canada, Transport of Dangerous Goods Regulations: This product is classified as **Dangerous Goods** as per regulations of Transport Canada (Canadian Transport of Dangerous Goods).

International Air Transport Association (IATA): This product is classified as **Dangerous Goods requirements under IATA DG Regulations which are based in part on the UN Recommendations for the Transport of Dangerous Goods.**

International Maritime Organization (IMO) Designation: This product is classified as **Dangerous Goods** under IMO DG Code which is based in part on the UN Recommendations for the Transport of Dangerous Goods.

15. REGULATORY INFORMATION

SARA Reporting Requirements: None
Marine Pollutant: This product contains no component listed as a Marine Pollutant under 49 CFR 172.101 Appendix B
TSCA: All components in this product mixture are listed on the US TSCA inventory of chemicals or are exempt from listing
SARA 31/312: Acute Health: Yes; Chronic Health: No; Fire: Yes; Reactivity: No
US CERCLA (RQ): None
California (Proposition 65): This product does not contain any component above 0.1% level which is listed as a California Proposition 65 Chemical

16. OTHER INFORMATION

The information in this SDS is considered current and reliable. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal are beyond Humco's control, it is the responsibility of the user to determine safe conditions for use and to assume liability for loss, damage, or expenses arising from improper use. No warranty expressed or implied regarding

the product described herein will be created by or inferred from any statement or omission. Various agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.