



SAFETY DATA SHEET (SDS)

Tea Tree Essential Oil (Melaleuca alternifolia) | GHS / WHMIS 2015 Compliant | Version 1.1
Issue Date: May 21, 2026

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION	
Product Name	Tea Tree Essential Oil (Melaleuca alternifolia)
Botanical Name	Melaleuca alternifolia
INCI Name	Melaleuca Alternifolia (Tea Tree) Leaf Oil
CAS Number	68647-73-4
EINECS Number	285-377-1
Batch Number	BR-260120
Report Number	BR-260122
Batch Date	September 20, 2025
Country of Origin	China
Product Use	Aromatherapy, cosmetics, and personal care products (domestic use)
Supplier / Distributor	Navy Heart Essential Oils
Address	Calgary, Alberta, Canada (full address available upon request)
Telephone	+1 (403) 901-6428
Email	navyheart.ca@gmail.com
Website	https://navyheart.ca
Emergency Telephone	Alberta Poison Centre: 1-800-332-1414 (24-hour) Canada Poison Centre: 1-844-764-7669

SECTION 2 — HAZARDS IDENTIFICATION
GHS / WHMIS 2015 Classification
Flammable Liquid — Category 3
Acute Toxicity, Oral — Category 4
Skin Corrosion/Irritation — Category 2
Serious Eye Damage/Irritation — Category 2
Skin Sensitization — Category 1
Aspiration Hazard — Category 1
Hazardous to Aquatic Environment — Chronic — Category 2
Signal Word: DANGER

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.
Precautionary Statements
P210 — Keep away from heat, sparks, open flames and other ignition sources. No smoking.
P233 — Keep container tightly closed.
P261 — Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264 — Wash skin thoroughly after handling.
P270 — Do not eat, drink or smoke when using this product.
P273 — Avoid release to the environment.
P280 — Wear protective gloves/clothing/eye protection/face protection.
P330 — Rinse mouth.
P331 — Do NOT induce vomiting.
P370+P378 — In case of fire: Use appropriate extinguishers to extinguish.
P403+P235 — Store in a well-ventilated place. Keep cool.
P501 — Dispose of contents/container in accordance with local, provincial, and federal regulations.
P240 — Ground/bond container and receiving equipment.
P241 — Use explosion-proof electrical/ventilating/lighting equipment.
P242 — Use only non-sparking tools.
P243 — Take precautionary measures against static discharge.
P272 — Contaminated work clothing should not be allowed out of the workplace.
P301+P310 — IF SWALLOWED: Immediately call a Poison Centre/doctor.
P302+P352 — IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 — IF ON SKIN (or hair): Remove contaminated clothing immediately. Rinse skin with water/shower.
P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present — continue rinsing.
P332+P313 — If skin irritation occurs: Get medical advice/attention.
P333+P313 — If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 — If eye irritation persists: Get medical advice/attention.
P362 — Take off contaminated clothing.
P363 — Wash contaminated clothing before reuse.
P391 — Collect spillage.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	EC Number	Concentration
Melaleuca Alternifolia (Tea Tree) Leaf Oil	68647-73-4	285-377-1	≤100% (Terpinen-4-ol 40%, γ-Terpinene 21%, α-Terpinene 10% ; BR 260122)

Note: Full constituent breakdown (GC/MS analysis) is currently in process and will be uploaded when it is available. Primary constituent: Terpinen-4-ol confirmed at 42.10% for this batch (standard ≥40%).

SECTION 4 — FIRST AID MEASURES

General Advice	Consult a physician. Show this SDS to the attending doctor. Move affected person out of dangerous area immediately.
If Inhaled	Move person to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms appear. In case of serious inhalation, loosen tight clothing and evacuate to a safe area.
Skin Contact	Remove contaminated clothing and shoes immediately. Flush skin with plenty of water. Cover irritated skin with an emollient. Wash clothing before reuse. Seek medical attention if discomfort continues. For serious skin contact, wash with disinfectant soap and apply an anti-bacterial cream.
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of cool water for at least 15 minutes. Seek medical attention if irritation occurs or persists.
If Swallowed	Do NOT induce vomiting. Rinse mouth with water. Do not give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately. Loosen tight clothing.
Note to Physician	Aspiration hazard — treat accordingly. Symptomatic and supportive treatment recommended. May cause damage to blood, skin, and central nervous system with repeated or prolonged exposure.

SECTION 5 — FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Small fires: dry chemical powder, alcohol foam, or carbon dioxide. Large fires: apply water from as far as possible as mist or spray — solid streams may be ineffective.
Special Hazards	Flammable in presence of open flames, sparks, and heat. Nature of decomposition products not fully known.
Protective Equipment	Wear self-contained breathing apparatus (SCBA) and full chemical protective gear. Cool affected containers with water spray to prevent pressure build-up, autoignition, or explosion.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all ignition sources. Ground all equipment. Wear appropriate PPE (splash goggles, gloves, full suit for large spills). Avoid breathing vapours. Ensure adequate ventilation.
Environmental Precautions	Prevent entry into sewers, basements, confined areas, or waterways. Notify authorities if product enters public waters. Dike if needed.
Containment & Cleanup	Small spill: Absorb with inert material and place in appropriate waste disposal container. Large spill: Keep away from heat and ignition sources. Absorb with dry earth, sand, or other non-combustible material. Do not get

	water inside containers. Do not touch spilled material. Transfer to sealed, labelled containers for disposal.
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SECTION 7 — HANDLING AND STORAGE

Safe Handling	Keep away from heat and all sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapours/spray. Wear suitable protective clothing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety procedures.
Storage Conditions	Store in a segregated, approved area away from heat and ignition sources. Keep container tightly closed in a cool, well-ventilated place. Ground all equipment containing material. Flammable materials should be stored in a separate storage cabinet or room.
Incompatibilities	Highly reactive with acids and alkalis. Reactive with oxidizing agents. Keep away from incompatible substances.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep airborne vapour concentrations below threshold limit values. Ensure eyewash stations and safety showers are accessible near the workstation.
Eye / Face Protection	Chemical safety goggles recommended. Splash goggles for large spill situations.
Skin Protection	Wear chemical-resistant gloves and lab coat. For large spills: full chemical-resistant suit, gloves, and boots.
Respiratory Protection	Use an approved/certified respirator. For large spills or insufficient ventilation, use self-contained breathing apparatus (SCBA).
Environmental Controls	Avoid discharging into drainage water. Do not let product enter drains.
HMIS Rating	Health: 2 Fire: 2 Reactivity: 0
NFPA Rating	Health: 2 Flammability: 2 Reactivity: 0
WHMIS Classification	WHMIS 2015 uses GHS-aligned hazard classes (see Section 2) rather than the legacy WHMIS 1988 class-letter system; flash point 56°C (confirmed CoA) supports Flammable Liquid Category 3.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless to pale yellow clear liquid
Odour	Fresh, characteristic camphoraceous aroma of tea tree
Flash Point	56°C / 133°F (confirmed CoA, Batch BR-260120)
Density	0.887 g/mL (Batch BR-260120 CoA) / Standard range: 0.885–0.906
Refractive Index (CoA)	1.478 (Batch BR-260120) / Standard range: 1.475 ~ 1.482
Optical Rotation	Conforming: +5° to +15° (Batch BR-260120 CoA)
Content	Terpinen-4-ol 40.31%, γ -Terpinene 21.40%, α -Terpinene 10.23% (Batch 260122 CoA)
Solubility	Soluble in 85% ethyl alcohol. Insoluble in water.
Specific Gravity	0.894 (supplier MSDS)

SECTION 10 — STABILITY AND REACTIVITY

Reactivity	No significant reactivity hazard under normal conditions.
Chemical Stability	Product is stable under normal recommended storage and handling conditions.
Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Heat, sparks, open flames, and other ignition sources.
Incompatible Materials	Highly reactive with acids and alkalis. Reactive with oxidizing agents.
Decomposition Products	Nature of decomposition products not fully known. Possibly hazardous long-term degradation products may arise.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Toxicity	No animal test data used. Based on known properties of Melaleuca alternifolia oil, classified as Acute Toxicity Oral Category 4 — harmful if swallowed. Handle with care.
Skin Irritation	May cause skin irritation. Classified as Category 2. Hazardous in case of skin contact (irritant).
Skin Sensitization	May cause allergic skin reactions in susceptible individuals (GHS Category 1).
Eye Irritation	Causes serious eye irritation (Category 2). Prevent by wearing appropriate chemical safety goggles.
Inhalation	May cause respiratory tract irritation. Ensure adequate ventilation when handling.
Ingestion	Harmful if swallowed. Aspiration hazard — do not induce vomiting. Seek immediate medical attention.
Chronic Effects	May cause damage to blood, skin, and central nervous system (CNS) with repeated or prolonged exposure.
Carcinogenicity	Classified 4 — no evidence of carcinogenicity by NTP. Not listed by OSHA. No component at $\geq 0.1\%$ identified as a known or probable carcinogen by IARC or ACGIH.
RTECS Number	RJ3697600

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic life with long-lasting effects (H411). Classified as hazardous to the aquatic environment — chronic Category 2. Classified as marine pollutant.
Degradability	Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.
Other Effects	Avoid any pollution of ground, surface, or underground water. Do not allow product to enter drains, sewers, or natural waterways.

SECTION 13 — DISPOSAL CONSIDERATIONS

Offer surplus and non-recyclable material to a licensed disposal company. Dispose of in accordance with local, provincial (Alberta), and federal Canadian regulations. Do not pour down drains or into waterways.

Contaminated Packaging: Triple-rinse containers and offer for recycling or reconditioning. Alternatively, puncture to make unusable and dispose of in a sanitary landfill in compliance with local regulations.

SECTION 14 — TRANSPORT INFORMATION	
Reference UN Number	1266
Reference Shipping Name	Extract, Aromatic, Liquid (Tea Tree Oil)
Reference Hazard Class	3 (Flammable Liquid)
Reference Packing Group	III
IMO/IMDG Marine Pollution	Yes — classified as marine pollutant (reference SDS)
Emergency Action	Notify police and fire department immediately in case of accident.

SECTION 15 — REGULATORY INFORMATION	
WHMIS 2015 (Canada)	This SDS complies with Canada's Hazardous Products Regulations (WHMIS 2015). Classifications (GHS-aligned per WHMIS 2015; the legacy WHMIS 1988 "Class B-2" designation does not apply under the current regulations): Flammable Liquid (Cat. 3), Skin Irritation (Cat. 2), Eye Irritation (Cat. 2), Skin Sensitization (Cat. 1), Aspiration Hazard (Cat. 1), Aquatic Toxicity — Chronic (Cat. 2).
TSCA	TSCA 8(b) inventory: Tea Tree Oil (<i>Melaleuca alternifolia</i>).
OSHA	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
SARA 302 Components	No chemicals in this material are subject to SARA Title III, Section 302 reporting requirements.
SARA 313 Components	This material does not contain chemicals with known CAS numbers exceeding De Minimis reporting levels under SARA Title III, Section 313.
Carcinogenicity	Classified 4 — no evidence by NTP. Not listed by OSHA.

SECTION 16 — OTHER INFORMATION	
SDS Version	1.1
Issue Date	May 21, 2026
Prepared By	Navy Heart Essential Oils, Calgary, Alberta, Canada
Source Documents	Supplier MSDS CoA Report No. BR-260122, Batch BR-260120

Version	Date	Summary of Changes
1.0	May 21, 2026	Initial issue.

Disclaimer: The information in this Safety Data Sheet is based on data provided by the raw material supplier and is believed to be accurate and reliable at the time of issue. Navy Heart Essential Oils makes no warranty, express or implied, as to the accuracy or completeness of this information. It is the responsibility of the user to ensure safe handling and use of this product in compliance with all applicable local, provincial, and federal regulations. This SDS is prepared in accordance with Canada's Hazardous Products Regulations (WHMIS 2015). Fields highlighted in yellow require verification against supplier documentation before finalizing.