



Navy Heart Essential Oils
Calgary, Alberta, Canada
Tel: +1 (403) 901-6428 | navyheart.ca@gmail.com | navyheart.ca

SAFETY DATA SHEET (SDS)

Lemon Essential Oil | GHS / WHMIS 2015 Compliant | Version 1.0
Issue Date: May 21, 2026

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION	
Product Name	Lemon Essential Oil
Botanical Name	Citrus limon
INCI Name	Citrus Limon (Lemon) Peel Oil
CAS Number	8008-56-8
EINECS Number	284-515-8
Lot Number	BR-260110
Report Number	BR-260112
Batch Date	January 20, 2026
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
Skin Corrosion/Irritation — Category 2
Skin Sensitization — Category 1
Serious Eye Damage/Irritation – Category 2
Aspiration Hazard — Category 1
Hazardous to Aquatic Environment — Acute — Category 1
Hazardous to Aquatic Environment — Chronic — Category 1

Signal Word: DANGER			
Hazard Statements			
H226 — Flammable liquid and vapour.			
H315 — Causes skin irritation.			
H317 — May cause an allergic skin reaction.			
H319 — May cause serious eye irritation.			
H304 — May be fatal if swallowed and enters airways.			
H400 — Toxic to aquatic life.			
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.			
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.			
P261 — Avoid breathing dust/fumes/gas/mist/vapours/spray.			
P264 — Wash hands thoroughly after handling.			
P273 — Avoid release to the environment.			
P280 — Wear protective gloves/clothing/eye protection/face protection.			
P303+P361+P353 — IF ON SKIN (or hair): Remove contaminated clothing immediately. Rinse skin with water/shower.			
P305+P351+P3388 — IF ON EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing.			
P337+P313 — If eye irritation persists: Get medical advice/attention.			
P370+P378 — In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.			
P403+P235 — Store in a well-ventilated place. Keep cool.			
P501 — Dispose of contents/container in accordance with local, provincial, and federal regulations.			
P301+P310 — IF SWALLOWED: Immediately call a Poison Centre/doctor.			
P302+P352 — IF ON SKIN: Wash with plenty of water.			
P391 — Collect spillage.			

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS			
Component	CAS Number	EC Number	Concentration
Lemon Peel Oil, Natural	8008-56-8	284-515-8	≤100% (Limonene 65%, b-pinene 13%, γ-terpinene 9%, Lot 260110)
Note: Full constituent breakdown (GC/MS analysis) is currently in process and will be uploaded when it is available.			

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. Seek medical attention if discomfort occurs or symptoms appear.
Skin Contact	Remove contaminated clothing immediately. Wash affected area thoroughly with soap and water. Seek medical attention if any discomfort continues.
Eye Contact	Immediately flush eyes with plenty of cool water for at least 15 minutes. Remove contact lenses. Seek medical attention if discomfort continues. Continue rinsing.
If Swallowed	Rinse mouth and drink plenty of water. Do NOT induce vomiting — aspiration hazard. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.
Note to Physician	Aspiration hazard — treat accordingly. Symptomatic and supportive treatment recommended.

SECTION 5 — FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Carbon dioxide (CO ₂), dry chemical powder, chemical foam, alcohol-resistant foam.
Unsuitable Extinguishing Media	Do not use direct water jet on burning material.
Special Hazards	In case of fire, hazardous fumes may be produced. Avoid inhalation of vapours.
Combustion Products	Carbon oxides and hazardous gases upon combustion.
Protective Equipment	Wear self-contained breathing apparatus (SCBA) and full chemical protective gear. Containers may be cooled with water spray to avoid pressure increase.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all ignition sources. Wear appropriate PPE (gloves, goggles, respirator). Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes.
Environmental Precautions	Do not discharge into drains, watercourses, or onto the ground. Notify authorities if product enters public waters. Dispose of in line with local authority guidelines.
Containment & Cleanup	Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry lime, sand, soda ash). Place in covered, labelled containers and dispose of in accordance with current laws and regulations.

SECTION 7 — HANDLING AND STORAGE

Safe Handling	Use in accordance with good industrial/laboratory procedures. Keep containers leak-proof, closed, and dry. Protect against sunlight, heat, and open flame. No direct lighting. No smoking. Prevent spills and leakages. Avoid inhalation of vapours and contact with skin and eyes. Wash hands and exposed areas before eating, drinking, or leaving work.
Storage Conditions	Store in a cool (5°C), well-ventilated environment in closed glass or aluminium containers. Keep away from sources of ignition. Provide local

	exhaust or general room ventilation. Keep container closed when not in use. Avoid intrusion into soil.
Light Sensitivity	Yes — protect from direct sunlight.
Container Type	Glass or aluminium containers recommended.
Incompatibilities	Combustible — may give rise to hazardous fumes. Strong oxidizing agents.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Engineering methods to prevent or control exposure are preferred, including personnel segregation, mechanical ventilators, and control of process conditions. Ensure adequate ventilation.
Eye / Face Protection	Wear approved safety glasses or tightly sealed goggles.
Skin Protection	Wear chemical-resistant (solvent-resistant) gloves. Wear solvent-resistant overalls where splashing is possible.
Respiratory Protection	No special measures required providing good ventilation is maintained. If vapour concentrations become high, use an approved respirator.
Hygiene	Good personal hygiene practices should always be maintained when working with essential oils.
Environmental Controls	Avoid discharging into drainage water. Do not let product enter drains.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to yellow liquid
Odour	Intense, fresh, floral citrus aroma characteristic of lemon peel
Flash Point (Supplier)	50°C
Boiling Point	163°C
Relative Density	0.8488 (Lot BR-260110 CoA) / Ref range: 0.840–0.860
Refractive Index (20°C)	1.474 (Lot BR-260110 CoA) / Ref range: 1.467–1.4770
Optical Rotation	Conforming: +57° to +65° (Lot 260110 CoA)
Limonene Content	65.38% (Lot 260110 CoA)
b-Pinene Content	13.24% (Lot 260110 CoA)
γ-Terpinene	9.81% (Lot 260110 CoA)
Solubility	Soluble in 75% ethanol and fixed oils. Insoluble in water.
Light Sensitivity	Yes — store away from direct sunlight

SECTION 10 — STABILITY AND REACTIVITY

Reactivity	No significant reactivity hazard under normal conditions of use.
Chemical Stability	Stable under normal storage and handling conditions.
Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Heat, sparks, open flames, direct sunlight, and other ignition sources.
Incompatible Materials	Combustible — may give rise to hazardous fumes. Strong oxidizing agents.
Decomposition Products	Carbon oxides and hazardous gases may form upon combustion.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Toxicity	Based on known properties of lemon peel oil, this product should be handled with the highest possible caution.
Skin Irritation	May cause skin irritation. Classified as Category 2. Prevent by normal care and personal hygiene.
Skin Sensitization	May cause allergic skin reactions in susceptible individuals (GHS Category 1).
Inhalation	Inhalation of high concentrations of vapour may cause irritation of the eyes, nose, and throat, headache, nausea, and dizziness.
Eye Contact	Classified as Serious Eye Irritation Category 2 (H319). May cause eye irritation. Prevent by wearing appropriate safety goggles.
Ingestion	Do not ingest. Aspiration hazard — may be fatal if swallowed and enters airways. Do not induce vomiting. Seek immediate medical attention.
Photo-Toxicity	Cold-pressed lemon peel oil is known to be phototoxic. Avoid direct UV exposure or sunlight on skin after topical application. This is a general advisory based on the known properties of expressed lemon oil.
Carcinogenicity	No component at $\geq 0.1\%$ identified as a known or probable carcinogen by IARC, ACGIH, NTP, or OSHA.

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic to aquatic life (H400). Toxic to aquatic life with long-lasting effects (H411). Classified as hazardous to the aquatic environment — Acute Category 1 and Chronic Category 1.
Other Effects	Avoid any pollution of ground, surface, or underground water. Do not allow product to enter drains, sewers, or natural waterways. Product remainders should not intrude into soil or waters.

SECTION 13 — DISPOSAL CONSIDERATIONS

Collect and dispose of waste product at an authorized disposal facility in accordance with local, provincial (Alberta), and federal Canadian regulations. Product remainders should not intrude into soil or waters. 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	1169
Reference Shipping Name	Extracts, Aromatic, liquid
Reference Hazard Class	3 (Flammable Liquid)
Reference Packing Group	III
TDG Canada / US DOT (Land)	UN1169 — Extracts, liquid — Class 3 — PG III
IMO/IMDG (Sea)	UN1169 — Extracts, liquid — Class 3 — PG III
IATA (Air)	UN1169 — Extracts, liquid — Class 3 — PG III
Environmental Hazard	Classified as environmentally hazardous substance/marine pollutant per supplier.

SECTION 15 — REGULATORY INFORMATION

WHMIS 2015 (Canada)	This SDS complies with Canada's Hazardous Products Regulations (WHMIS 2015). Classifications: Flammable Liquid (Cat. 3), Skin Irritation (Cat. 2), Skin Sensitization (Cat. 1), Serious Eye Irritation (Cat. 2) Aspiration Hazard (Cat. 1), Aquatic Acute (Cat. 1), Aquatic Toxicity — Chronic (Cat. 1).
----------------------------	--

SECTION 16 — OTHER INFORMATION

SDS Version	1.0
Issue Date	May 21, 2026
Prepared By	Navy Heart Essential Oils, Calgary, Alberta, Canada
Source Documents	Supplier MSDS CoA Report No. BR-260112, Lot 260110

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).