



# Navy Heart Essential Oils

Calgary, Alberta, Canada

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## SAFETY DATA SHEET (SDS)

Lemongrass Essential Oil | GHS / WHMIS 2015 Compliant | Version 1.0

Issue Date: May 22, 2026

### SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

|                        |                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------|
| Product Name           | Lemongrass Essential Oil                                                                |
| Botanical Name         | Cymbopogon flexuosus                                                                    |
| INCI Name              | Cymbopogon Flexuosus Herb Oil                                                           |
| CAS Number             | 8007-02-1                                                                               |
| EINECS Number          | 281-161-9                                                                               |
| Lot Number             | BR-260120                                                                               |
| Report Number          | BR-260121                                                                               |
| 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                | <a href="https://navyheart.ca">https://navyheart.ca</a>                                 |
| Emergency Telephone    | Alberta Poison Centre: 1-800-332-1414 (24-hour)<br>Canada Poison Centre: 1-844-764-7669 |

### SECTION 2 — HAZARDS IDENTIFICATION

#### GHS / WHMIS 2015 Classification

Flammable Liquid — Category 4

Skin Corrosion/Irritation — Category 2

Skin Sensitization — Category 1

Serious Eye Damage/Irritation — Category 2A

Specific Target Organ Toxicity — Single Exposure — Category 3 (Respiratory)

Hazardous to Aquatic Environment — Chronic Hazard — Category 3

Signal Word      WARNING

## Hazard Statements

H227 — Combustible liquid.

H315 — Causes skin irritation.

H317 — May cause an allergic skin reaction.

H319 — Causes serious eye irritation.

H335 — May cause respiratory irritation.

H412 — Harmful to aquatic life with long-lasting effects.

## Precautionary Statements

P210 — Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 — Avoid breathing dust/fumes/gas/mist/vapours/spray.

P264 — Wash skin thoroughly after handling.

P271 — Use only outdoors or in a well-ventilated area.

P272 — Contaminated work clothing should not be allowed out of the workplace.

P273 — Avoid release to the environment.

P280 — Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 — IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do — continue rinsing.

P310 — Immediately call a POISON CENTRE or doctor.

P321 — Specific treatment (see Section 4 of this SDS).

P332+P313 — If skin irritation occurs: Get medical advice/attention.

P333+P313 — If skin irritation or rash occurs: Get medical advice/attention.

P362 — Take off contaminated clothing.

P363 — Wash contaminated clothing before reuse.

P370+P378 — In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P391 — Collect spillage.

P403+P235 — Store in a well-ventilated place. Keep cool.

P405 — Store locked up.

P501 — Dispose of contents/container in accordance with local, provincial, and federal regulations.

## SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

| Component                     | CAS Number | EC Number | Concentration                                              |
|-------------------------------|------------|-----------|------------------------------------------------------------|
| Cymbopogon Flexuosus Herb Oil | 8007-02-1  | 281-161-9 | ≤100% (Geranial 38%, Neral 29%, Geraniol 7% Lot BR-260120) |

Note: Full constituent breakdown (GC/MS analysis) is currently in process and will be uploaded when it is available.

## SECTION 4 — FIRST AID MEASURES

|                          |                                                                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Advice</b>    | Consult a physician. Show this SDS to the attending doctor. Move affected person out of dangerous area immediately.                                                                                    |
| <b>If Inhaled</b>        | Remove person to fresh air immediately. If symptoms appear or breathing is difficult, seek medical attention. Provide oxygen if available.                                                             |
| <b>Skin Contact</b>      | Remove contaminated clothing. Wash affected area thoroughly with soap and water. Seek medical attention if irritation develops or persists.                                                            |
| <b>Eye Contact</b>       | Immediately flush eyes with plenty of cool water for at least 15 minutes. Remove contact lenses if present and easy to do — continue rinsing. Seek immediate medical attention if irritation persists. |
| <b>If Swallowed</b>      | Rinse mouth with water. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention or contact poison control.                                    |
| <b>Note to Physician</b> | Symptomatic and supportive treatment recommended.                                                                                                                                                      |

## SECTION 5 — FIRE FIGHTING MEASURES

|                                       |                                                                                                                                                                       |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | Foam (alcohol-resistant), ABC dry chemical powder, carbon dioxide (CO <sub>2</sub> ). For large fires, apply water mist or spray from a safe distance.                |
| <b>Unsuitable Extinguishing Media</b> | Do not use direct water jet on burning material.                                                                                                                      |
| <b>Flash Point</b>                    | 70°C / 158°F                                                                                                                                                          |
| <b>Special Hazards</b>                | Combustible liquid. Hazardous fumes may be produced in case of fire. Containers may build pressure when exposed to heat.                                              |
| <b>Combustion Products</b>            | Carbon oxides and potentially toxic gases may form upon combustion.                                                                                                   |
| <b>Protective Equipment</b>           | Wear self-contained breathing apparatus (SCBA) and full chemical protective gear when fighting fire involving this product. Cool exposed containers with water spray. |

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

|                                  |                                                                                                                                                                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>      | Remove all sources of ignition. Wear appropriate PPE (chemical-resistant gloves, safety goggles, respirator if vapours are present). Ensure adequate ventilation. Keep people upwind and away from spill. Avoid inhalation of vapours. |
| <b>Environmental Precautions</b> | Prevent entry into drains, sewers, waterways, or onto the ground. Notify local authorities if product enters public waters or drainage systems.                                                                                        |
| <b>Containment &amp; Cleanup</b> | Cover spill with inert, non-combustible absorbent material such as dry sand, dry lime, or soda ash. Collect in closed, labelled containers. Dispose of in accordance with local, provincial, and federal regulations.                  |

## SECTION 7 — HANDLING AND STORAGE

|                                        |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe Handling</b>                   | Handle in a well-ventilated area. Keep away from heat, sparks, open flames, and other ignition sources. No smoking. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. No direct lighting. Wash hands and exposed skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety procedures. |
| <b>Storage Conditions</b>              | Store in tightly closed glass or aluminium containers in a cool, dry, well-ventilated place. Keep away from direct sunlight and sources of ignition. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.                                                                                         |
| <b>Recommended Storage Temperature</b> | 5°C (41°F) or below                                                                                                                                                                                                                                                                                                                           |
| <b>Incompatibilities</b>               | Strong oxidizing agents. Combustible materials.                                                                                                                                                                                                                                                                                               |

## SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                     |                                                                                                                                                                                                                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational Exposure Limits</b> | No established occupational exposure limit (OEL) for lemongrass essential oil under Alberta OHS Regulation or NIOSH at the time of issue. Apply general principles of good hygiene and engineering controls.       |
| <b>Engineering Controls</b>         | Ensure adequate ventilation. Use local exhaust ventilation where necessary to minimize vapour concentrations. Engineering methods to control or prevent exposure are preferred over personal protective equipment. |
| <b>Eye / Face Protection</b>        | Wear tightly sealed safety goggles with side-shields.                                                                                                                                                              |
| <b>Skin Protection</b>              | Wear chemical-resistant gloves. Inspect gloves before use. Wear solvent-resistant protective clothing or overalls where prolonged contact is likely.                                                               |
| <b>Respiratory Protection</b>       | Respiratory protection is not normally required if adequate ventilation is maintained. Where ventilation is insufficient, use a NIOSH-approved air-purifying respirator with organic vapour cartridges.            |
| <b>Environmental Controls</b>       | Prevent further leakage or spillage if safe to do so. Do not allow product to enter drains or waterways.                                                                                                           |
| <b>Hygiene Measures</b>             | Good personal hygiene practices are always advisable when working with essential oils. Wash hands and exposed skin before eating, drinking, or smoking and when leaving the work area.                             |

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

|                                |                                                                     |
|--------------------------------|---------------------------------------------------------------------|
| <b>Colour</b>                  | Slight yellow - clear liquid                                        |
| <b>Odour</b>                   | Sweet lemon and herb aroma; intense floral, citrus, slightly bitter |
| <b>Flash Point</b>             | 70°C / 158°F                                                        |
| <b>Boiling Point</b>           | 163°C / 325°F                                                       |
| <b>Relative Density (20°C)</b> | 0.915 (Lot BR-260121 CoA) / Ref range: 0.885–0.918                  |
| <b>Refractive Index (20°C)</b> | 1.475 (Lot BR-260121 CoA) / Ref range: 1.469–1.477                  |

|                            |                                             |
|----------------------------|---------------------------------------------|
| <b>Optical Rotation</b>    | CoA: +5° to +0° — Conformity                |
| <b>Solubility in Water</b> | Soluble in 85% ethanol. Insoluble in water. |
| <b>Light Sensitivity</b>   | Yes — store away from direct sunlight       |

## SECTION 10 — STABILITY AND REACTIVITY

|                               |                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------|
| <b>Reactivity</b>             | No significant reactivity hazard under normal conditions of use.                 |
| <b>Chemical Stability</b>     | Chemically stable under recommended storage conditions.                          |
| <b>Hazardous Reactions</b>    | Hazardous polymerization will not occur.                                         |
| <b>Conditions to Avoid</b>    | Heat, sparks, open flames, direct sunlight, sources of ignition.                 |
| <b>Incompatible Materials</b> | Strong oxidizing agents. Combustible materials may give rise to hazardous fumes. |
| <b>Decomposition Products</b> | Carbon oxides may form at extreme heat or upon combustion.                       |

## SECTION 11 — TOXICOLOGICAL INFORMATION

|                               |                                                                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute Toxicity</b>         | Lemongrass essential oil is considered to have low acute toxicity under normal conditions of use based on its known properties as a natural botanical product. |
| <b>Skin Irritation</b>        | May cause skin irritation in sensitive individuals. Classified as Skin Irritation Category 2.                                                                  |
| <b>Skin Sensitization</b>     | May cause allergic skin reactions. Classified as Skin Sensitization Category 1.                                                                                |
| <b>Eye Irritation</b>         | May cause serious eye irritation. Classified as Eye Irritation Category 2A. Prevent by wearing appropriate safety goggles.                                     |
| <b>Inhalation</b>             | May cause respiratory irritation. High concentrations of vapour may cause headache, nausea, dizziness, or irritation of the eyes, nose, and throat.            |
| <b>Ingestion</b>              | Do not ingest. Seek medical attention if swallowed.                                                                                                            |
| <b>Carcinogenicity</b>        | No component at ≥0.1% is identified as a known or probable human carcinogen by IARC or ACGIH.                                                                  |
| <b>STOT — Single Exposure</b> | Category 3 — Respiratory system (H335 — May cause respiratory irritation).                                                                                     |

## SECTION 12 — ECOLOGICAL INFORMATION

|                                           |                                                                                                                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                        | Harmful to aquatic organisms with long-lasting effects. Avoid any release to ground, surface, or underground water. Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. |
| <b>Persistence &amp; Biodegradability</b> | Biodegradable                                                                                                                                                                                                   |
| <b>Bioaccumulation Potential</b>          | No data available                                                                                                                                                                                               |
| <b>Mobility in Soil</b>                   | Insoluble in water and readily soluble in soil                                                                                                                                                                  |

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| <b>Other Effects</b> | Do not allow product to enter drains, sewers, or natural waterways. |
|----------------------|---------------------------------------------------------------------|

## SECTION 13 — DISPOSAL CONSIDERATIONS

Dispose of product in accordance with local, provincial (Alberta), and federal Canadian regulations. This combustible material may be incinerated in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable material to a licensed waste disposal company. Do not pour down drains or into waterways. Check with local municipal authority to ensure compliance.

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

|                                                |                                                                                                                      |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>TDG Canada (Land)</b>                       | Not regulated under TDG                                                                                              |
| <b>US DOT (Land)</b>                           | Not regulated                                                                                                        |
| <b>IMO/IMDG (Sea)</b>                          | Not regulated. Note: identifies product as an environmental hazard / marine pollutant — label packaging accordingly. |
| <b>IATA (Air)</b>                              | Not regulated                                                                                                        |
| <b>Environmental Hazard / Marine Pollutant</b> | Yes — product may be environmentally hazardous. Mark packaging as marine pollutant where applicable.                 |
| <b>Poison Inhalation Hazard</b>                | No                                                                                                                   |

## SECTION 15 — REGULATORY INFORMATION

|                             |                                                                                                                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WHMIS 2015 (Canada)</b>  | This SDS complies with Canada's Hazardous Products Regulations (WHMIS 2015). Classifications: Flammable Liquid (Cat. 4), Skin Irritation (Cat. 2), Skin Sensitization (Cat. 1), Eye Irritation (Cat. 2A), STOT SE (Cat. 3), Aquatic Chronic (Cat. 3). |
| <b>SARA 302 Components</b>  | No chemicals in this material are subject to SARA Title III, Section 302 reporting requirements.                                                                                                                                                      |
| <b>SARA 311/312 Hazards</b> | Fire Hazard; Health Hazard.                                                                                                                                                                                                                           |
| <b>SARA 313 Components</b>  | This material does not contain chemicals with known CAS numbers exceeding De Minimis reporting levels under SARA Title III, Section 313.                                                                                                              |
| <b>NFPA Rating</b>          | Health: 1   Fire: 2   Reactivity: 0                                                                                                                                                                                                                   |
| <b>HMIS Rating</b>          | Health: 1   Flammability: 2   Physical Hazard: 0                                                                                                                                                                                                      |

## SECTION 16 — OTHER INFORMATION

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| <b>SDS Version</b>      | 1.0                                                 |
| <b>Issue Date</b>       | May 22, 2026                                        |
| <b>Prepared By</b>      | Navy Heart Essential Oils, Calgary, Alberta, Canada |
| <b>Source Documents</b> | MSDS   CoA Report No. BR-260121, Lot BR-260120      |

| Version | Date         | Summary of Changes |
|---------|--------------|--------------------|
| 1.0     | May 22, 2026 | Initial issue.     |

Disclaimer: The information in this Safety Data Sheet is based on data provided by the raw material supplier and reference industry sources, 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).

**Navy Heart Essential Oils | Calgary, AB, Canada | [navyheart.ca](http://navyheart.ca) | [navyheart.ca@gmail.com](mailto:navyheart.ca@gmail.com) | +1 (403) 901-6428**