



# Navy Heart Essential Oils

Calgary, Alberta, Canada

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## SAFETY DATA SHEET (SDS)

Sweet Orange Essential Oil | GHS / WHMIS 2015 Compliant | Version 1.0

Issue Date: May 22, 2026

### SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

|                        |                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------|
| Product Name           | Sweet Orange Essential Oil                                                              |
| Botanical Name         | Citrus sinensis                                                                         |
| INCI Name              | Citrus Sinensis Peel Oil Expressed                                                      |
| CAS Number             | 8008-57-9                                                                               |
| EINECS Number          | 232-433-8                                                                               |
| Lot Number             | BR-260120                                                                               |
| Report Number          | BR-260126                                                                               |
| 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                  | <a href="mailto:navyheart.ca@gmail.com">navyheart.ca@gmail.com</a>                      |
| 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 3                                      |        |
| Aspiration Hazard — Category 1                                     |        |
| Skin Corrosion/Irritation — Category 2                             |        |
| Skin Sensitization — Category 1                                    |        |
| Hazardous to the Aquatic Environment — Acute Hazard — Category 1   |        |
| Hazardous to the Aquatic Environment — Chronic Hazard — Category 1 |        |
| Signal Word                                                        | DANGER |

| <b>Hazard Statements</b>                                                                                             |
|----------------------------------------------------------------------------------------------------------------------|
| H226 — Flammable liquid and vapour.                                                                                  |
| H304 — May be fatal if swallowed and enters airways.                                                                 |
| H315 — Causes skin irritation.                                                                                       |
| H317 — May cause an allergic skin reaction.                                                                          |
| H400 — Very toxic to aquatic life.                                                                                   |
| H410 — Very toxic to aquatic life with long-lasting effects.                                                         |
| <b>Precautionary Statements</b>                                                                                      |
| P201 — Obtain special instructions before use.                                                                       |
| P202 — Do not handle until all safety precautions have been read and understood.                                     |
| P210 — Keep away from heat, hot surfaces, 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.                                                                         |
| 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.                                    |
| P281 — Use personal protective equipment as required.                                                                |
| P301+P310 — IF SWALLOWED: Immediately call a POISON CENTRE/doctor.                                                   |
| P302+P352 — IF ON SKIN: Wash with plenty of water.                                                                   |
| P303+P361+P353 — IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P308+P313 — If exposed: Call a POISON CENTRE or doctor.                                                              |
| P321 — Specific treatment (see Section 4 of this SDS).                                                               |
| P331 — Do NOT induce vomiting.                                                                                       |
| P332+P313 — If skin irritation occurs: Get medical advice/attention.                                                 |
| P333+P313 — If skin irritation or a 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 carbon dioxide to extinguish.                             |

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| 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                      |
|------------------------------------|-------------|-----------|------------------------------------|
| Citrus Sinensis Peel Oil Expressed | 8008-57-9 / | 232-433-8 | ≤100% (D-Limonene ≥90%, BR-260126) |

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>        | Move person to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Do not use mouth-to-mouth resuscitation if the person ingested or inhaled the substance. Seek medical attention if symptoms persist. |
| <b>Skin Contact</b>      | Remove contaminated clothing immediately. Wash area thoroughly with soap and plenty of 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 medical attention if irritation occurs.                                                                        |
| <b>If Swallowed</b>      | Rinse mouth with water. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Call a doctor or Poison Control Centre immediately.                                                                                                       |
| <b>Note to Physician</b> | Symptomatic and supportive treatment recommended. Risk of aspiration if vomiting occurs (Aspiration Hazard Category 1).                                                                                                                                           |

### SECTION 5 — FIRE FIGHTING MEASURES

|                                       |                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | Dry chemical, carbon dioxide (CO <sub>2</sub> ), sand, earth Alcohol-resistant foam may be used.                                         |
| <b>Unsuitable Extinguishing Media</b> | Water spray and water jets                                                                                                               |
| <b>Flash Point</b>                    | 53°C / 127°F                                                                                                                             |
| <b>Special Hazards</b>                | Hazardous decomposition products may form at extreme heat or if burned. Vapours can form explosive concentrations.                       |
| <b>Combustion Products</b>            | Carbon monoxide, carbon dioxide                                                                                                          |
| <b>Protective Equipment</b>           | Wear self-contained breathing apparatus (SCBA) and full chemical protective gear. Use water spray or fog for cooling exposed containers. |

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

|                                  |                                                                                                                                                                                                                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>      | Avoid breathing mist, gas, or vapours. Avoid contacting skin and eyes. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Wear chemical-impermeable gloves and appropriate PPE. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. |
| <b>Environmental Precautions</b> | Prevent entry into sewers and public waters. Notify authorities if product enters sewers or public waters. Do not allow product to enter drains. Note: This product as an environmental hazard / marine pollutant — manage accordingly.                                                        |
| <b>Containment &amp; Cleanup</b> | Contain spillage. Collect using an absorbent material. Keep in suitable, closed containers for disposal in accordance with local, provincial, and federal regulations. Reference Section 13.                                                                                                   |

## SECTION 7 — HANDLING AND STORAGE

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe Handling</b>                   | No direct lighting. No smoking. Handle in a well-ventilated place. Avoid inhalation of vapour or mist. Avoid contact with skin and eyes. Avoid formation of aerosols. Use non-sparking tools. Prevent electrostatic discharge. Ensure prompt removal from eyes, skin, and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures. |
| <b>Storage Conditions</b>              | Store container tightly closed in a dry, cool, well-ventilated place. Store apart from foodstuff containers or incompatible materials. Provide local exhaust or general room ventilation to minimize vapour concentrations. Keep container closed when not in use.                                                                                                                                                                                                                  |
| <b>Recommended Storage Temperature</b> | Cool place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Incompatibilities</b>               | Strong oxidizing agents, acid clays, and mineral acids.                                                                                                                                                                                                                                                                                                                                                                                                                             |

## SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                     |                                                                                                                                                                                                                     |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational Exposure Limits</b> | Citrus Terpene (D-Limonene primary constituent): 8-hour TWA = 30 ppm (AIHA Standard). No established OEL for sweet orange essential oil as a whole under Alberta OHS Regulation or NIOSH at time of issue.          |
| <b>Engineering Controls</b>         | Ensure adequate ventilation. Set up emergency exits and risk-elimination area. Handle in accordance with good industrial hygiene and safety practice.                                                               |
| <b>Eye / Face Protection</b>        | Wear tightly fitting safety goggles with side-shields conforming to EN 166 (EU) or NIOSH (US).                                                                                                                      |
| <b>Skin Protection</b>              | Wear fire/flame-resistant and impervious clothing. Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Gloves must satisfy specifications of EU Directive 89/686/EEC and standard EN 374. |
| <b>Respiratory Protection</b>       | If exposure limits are exceeded, irritation, or other symptoms are experienced, use a full-face respirator with appropriate organic vapour or multi-gas cartridges.                                                 |
| <b>Environmental Controls</b>       | Do not let product enter drains or waterways. Discharge into the environment must be avoided.                                                                                                                       |

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

|                                |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| <b>Colour</b>                  | Light yellow to light orange                                            |
| <b>Odour</b>                   | Sweet orange oil aroma                                                  |
| <b>Flash Point</b>             | 53°C / 127°F                                                            |
| <b>Boiling Point</b>           | 177°C                                                                   |
| <b>Relative Density</b>        | 0.85   (Lot BR-BR-260120 CoA) / Ref range: 0.840–0.890                  |
| <b>Refractive Index (20°C)</b> | 1.472   (Lot BR-BR-260120 CoA) / Ref range: 1.470–1.479                 |
| <b>Specific Rotation</b>       | +85° to +105°; lot result: +95° (BR-260126)                             |
| <b>D-Limonene Content</b>      | ≥90% standard; CoA lot result: 90.10% (BR-260126)                       |
| <b>Acid Value</b>              | CoA: ≤2; lot result: 1.6 — Conformity                                   |
| <b>Ester Value</b>             | CoA: ≥2; lot result: 2.1 — Conformity                                   |
| <b>Non-Volatile Matter</b>     | CoA: ≤5; lot result: 3 — Conformity                                     |
| <b>Solubility</b>              | Soluble in 75% ethanol and other organic solutions. Insoluble in water. |
| <b>Light Sensitivity</b>       | Protect 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>    | Avoid sparks, flames, and other heat sources                                |
| <b>Incompatible Materials</b> | Strong oxidizing agents, acid clays, and mineral acids                      |
| <b>Decomposition Products</b> | Carbon monoxide, carbon dioxide may form at extreme heat or upon combustion |

## SECTION 11 — TOXICOLOGICAL INFORMATION

|                           |                                                                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute Toxicity</b>     | Sweet orange essential oil is considered to have low acute toxicity under normal conditions of use based on known properties of cold-pressed citrus oils. |
| <b>Skin Irritation</b>    | Causes skin irritation. Classified as Skin Corrosion/Irritation Category 2                                                                                |
| <b>Skin Sensitization</b> | May cause allergic skin reactions. Classified as Skin Sensitization Category 1<br>D-Limonene is a known skin sensitizer at high concentrations.           |
| <b>Eye Contact</b>        | May cause eye irritation. No formal eye classification, but general irritation noted. Wear appropriate eye protection.                                    |
| <b>Inhalation</b>         | No specific inhalation toxicity data. High concentrations of citrus terpene vapour may cause irritation.                                                  |

|                                 |                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Ingestion</b>                | Do not ingest. Seek medical attention if swallowed.                                                                     |
| <b>Aspiration Hazard</b>        | Classified as Aspiration Hazard Category 1 — May be fatal if swallowed and enters airways                               |
| <b>Carcinogenicity</b>          | No component at $\geq 0.1\%$ is identified as a known or probable human carcinogen by IARC, ACGIH, NTP, or OSHA.        |
| <b>Reproductive Toxicity</b>    | No data available from either source.                                                                                   |
| <b>Mutagenicity</b>             | No data available from either source.                                                                                   |
| <b>STOT — Single Exposure</b>   | No data available from either source.                                                                                   |
| <b>STOT — Repeated Exposure</b> | No data available from either source.                                                                                   |
| <b>Photo-toxicity</b>           | Cold-pressed orange peel oil may be phototoxic. Avoid direct UV exposure or sunlight on skin after topical application. |

## SECTION 12 — ECOLOGICAL INFORMATION

|                                           |                                                                                                                                                                                                               |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                        | Very toxic to aquatic organisms with long-lasting effects. Classified as Aquatic Acute Category 1 (H400) and Aquatic Chronic Category 1 (H410). Avoid any pollution of ground, surface, or underground water. |
| <b>Aquatic Toxicity Data</b>              | Fish: LC50 between 0.1 and 1 mg/L; Daphnia: EC50 between 0.1 and 1 mg/L; Algae: EC50 between 0.1 and 1 mg/L                                                                                                   |
| <b>Persistence &amp; Biodegradability</b> | Citrus terpene (D-Limonene) is a biodegradable solvent occurring in nature as the main component of citrus peel oil                                                                                           |
| <b>Bioaccumulation Potential</b>          | Not available                                                                                                                                                                                                 |
| <b>Mobility in Soil</b>                   | Not available                                                                                                                                                                                                 |
| <b>Other Effects</b>                      | Do not allow product to enter drains, sewers, or natural waterways. MSDS notes product is an environmental hazard and marine pollutant.                                                                       |

## SECTION 13 — DISPOSAL CONSIDERATIONS

Dispose of product in accordance with local, provincial (Alberta), and federal Canadian regulations. This flammable 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 contaminate water, foodstuffs, feed, or seed by storage or disposal. Do not discharge to sewer systems. Check with local municipal authority to ensure compliance.

Contaminated Packaging: Triple-rinse containers (or equivalent) and offer for recycling or reconditioning. Alternatively, puncture to make unusable and dispose of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

| SECTION 14 — TRANSPORT INFORMATION |                                                                      |
|------------------------------------|----------------------------------------------------------------------|
| <b>TDG Canada (Land)</b>           | UN1197 — Extracts, Liquid — Class 3 — Packing Group III              |
| <b>UN Number</b>                   | 1197                                                                 |
| <b>Proper Shipping Name</b>        | Extracts, Liquid                                                     |
| <b>Hazard Class</b>                | 3 — Flammable Liquid                                                 |
| <b>Packing Group</b>               | III                                                                  |
| <b>US DOT (Land)</b>               | UN1197 — Extracts, Liquid — Class 3 — PG III                         |
| <b>IMO/IMDG (Sea)</b>              | UN1197 — Extracts, Liquid — Class 3 — PG III — Marine Pollutant: Yes |
| <b>IATA (Air)</b>                  | UN1197 — Extracts, Liquid — Class 3 — PG III                         |
| <b>Marine Pollutant</b>            | Yes                                                                  |
| <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. 3), Aspiration Hazard (Cat. 1), Skin Irritation (Cat. 2), Skin Sensitization (Cat. 1), Aquatic Acute (Cat. 1), Aquatic Chronic (Cat. 1). |
| <b>DSL / NDSL</b>                   | Included in the DSL inventory                                                                                                                                                                                                                                 |
| <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>         | No SARA Hazards. Fire and environmental hazard per classifications.                                                                                                                                                                                           |
| <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                                                                                                                       |

| 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>        | Supplier MSDS   CoA Report No. BR-260126, Lot No. 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).

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