



Navy Heart Essential Oils

Calgary, Alberta, Canada

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SAFETY DATA SHEET (SDS)

Castor Carrier Oil (USP / Extra Virgin) | GHS / WHMIS 2015 Compliant | Version 1.1

Issue Date: August 12, 2026

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product Name	Castor Carrier Oil
Botanical Name	Ricinus communis
INCI Name	Ricinus Communis Seed Oil
CAS Number	8001-79-4
EC Number	232-293-8
Lot Number	BR-250606
Report Number	BR-250608
Batch Date	Jan. 20, 2026
Country of Origin	China
Product Use	Carrier oil for 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 Classification: NOT CLASSIFIED AS HAZARDOUS

Castor oil is not classified as a hazardous substance or mixture under GHS/WHMIS 2015.

Signal Word: Not applicable

Hazard Statements: Not applicable.

Precautionary Statements: Not applicable under GHS/WHMIS 2015. Standard good handling practices apply — see Sections 7 and 8.

Hazard Otherwise Not Classified (HNOC): May cause mild skin irritation with prolonged contact. May cause eye irritation. Ingesting large amounts may cause nausea and vomiting.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	EINECS Number	Concentration
Ricinus Communis Seed Oil (castor oil)	8001-79-4	232-293-8	≤100%

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.
If Inhaled	Remove person to fresh air. If not breathing, administer artificial respiration. Seek medical attention if symptoms appear.
Skin Contact	Remove contaminated clothing. Wash area thoroughly with soap and water. Seek medical attention if irritation persists. Prolonged contact may cause mild irritation.
Eye Contact	Immediately flush eyes with plenty of cool water for at least 15 minutes. Seek medical attention if irritation occurs.
If Swallowed	Rinse mouth with water. Do not give anything by mouth to an unconscious person. Seek medical attention. Large amounts may cause nausea and vomiting.
Note to Physician	Symptomatic and supportive treatment. Castor oil is a known laxative at high oral doses — treat gastrointestinal symptoms supportively.

SECTION 5 — FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry powder, carbon dioxide (CO ₂)
Unsuitable Extinguishing Media	Water spray, water jet
Flash Point	>235°C closed cup
Special Hazards	Hazardous decomposition products may form at extreme heat or if burned.
Combustion Products	Carbon oxides
Protective Equipment	Wear SCBA and full chemical protective gear. Use water spray or fog for cooling exposed containers.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation.
Environmental Precautions	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Do not let product enter drains.
Containment & Cleanup	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal per local regulations. Reference Section 13.

SECTION 7 — HANDLING AND STORAGE

Safe Handling	No direct lighting. No smoking. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety procedures.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep container closed when not in use.
Recommended Storage Temperature	Cool, dry place.
Incompatibilities	Strong oxidizing agents

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits	No specific OELs established for castor oil by NIOSH, OSHA, or ACGIH. Apply general principles for oil mist: NIOSH REL (oil mist) TWA 5 mg/m ³ .
Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at end of workday.
Eye / Face Protection	Safety glasses with side-shields (EN 166 / NIOSH). Use tightly sealed goggles
Skin Protection	Wear standard protective gloves as a general precaution against prolonged or repeated skin contact. Wear protective clothing where prolonged contact is likely.
Respiratory Protection	Full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) cartridges where risk assessment indicates. Supplied air respirator if sole means of protection.
Environmental Controls	Do not let product enter drains or waterways.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale yellow to golden yellow - thick liquid
Odour	Characteristic odour
Flash Point	235°C closed cup
Boiling Point	313°C / 595°F
Melting Point / Freezing Point	No data available
Relative Density (20°C)	0.958 (Lot BR-250606 CoA) / Ref range: 0.952–0.965
Refractive Index (20°C)	1.479 (Lot BR-250606 CoA) / Ref range: 1.477–1.481
Optical Rotation	3.9° (Lot BR-250606 CoA) / Ref range: +3.5° to +6.0° — Conform
Acid Value	1.1 mg KOH/g (Lot BR-250606 CoA) / Limit: ≤1.2 — Conform

Hydroxyl Value	156 mg KOH/g (Lot BR-250606 CoA) / Limit: ≥ 155 — Conform (indicator of ~90% ricinoleic acid content)
Saponification Value	181 mg KOH/g (Lot BR-250606 CoA) / Ref range: 176–187
Iodine Value	83 g I ₂ /100g (Lot BR-250606 CoA) / Ref range: 82–90
Peroxide Value	2 mEq/kg (Lot BR-250606 CoA) / Limit: ≤ 5.0 — Conform
Humidity	0.1% (Lot BR-250606 CoA) / Limit: $\leq 0.2\%$ — Conform
Unsaponifiables Content	1.0% (Lot BR-250606 CoA) / Limit: $\leq 1.0\%$ — Conform
Solubility	Soluble in oil. Insoluble in water
Viscosity	Very viscous oil — characteristic of castor oil.

SECTION 10 — STABILITY AND REACTIVITY

Reactivity	No significant reactivity hazard
Chemical Stability	Chemically stable under recommended storage conditions
Hazardous Reactions	Hazardous polymerization will not occur
Conditions to Avoid	Avoid sparks, flames, and other heat sources
Incompatible Materials	Strong oxidizing agents
Decomposition Products	Nature of decomposition products not fully known under fire conditions

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Toxicity	Product is not classified as acutely toxic under GHS.
Skin Irritation	May cause mild skin irritation with prolonged or concentrated exposure (HNOC). Not classified as a skin irritant under GHS.
Skin Sensitization	No data available
Eye Contact	May cause mild eye irritation (HNOC). Not formally classified under GHS. Wear appropriate eye protection.
Inhalation	Not expected to present significant inhalation hazard at ambient temperatures.
Ingestion	Large amounts may cause nausea and vomiting. Castor oil is a known pharmaceutical laxative at oral doses.
Aspiration Hazard	No data available
Carcinogenicity	No component at $\geq 0.1\%$ is identified as a carcinogen by IARC, ACGIH, NTP, or OSHA (MSDS).
RTECS Number	FI4100000

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity	Avoid any pollution of ground, surface, or underground water
Persistence & Biodegradability	No data available
Bioaccumulation Potential	Not available
Mobility in Soil	Not available
Other Effects	Prevent entry into sewers and public waters. Do not let product enter drains.

SECTION 13 — DISPOSAL CONSIDERATIONS

Offer surplus and non-recyclable material to a licensed disposal company. Dispose of product in accordance with local, provincial (Alberta), and federal Canadian regulations. Do not discharge to sewer systems. Check with local municipal authority to ensure compliance.

Contaminated Packaging: Triple-rinse containers and offer for recycling, or dispose of as unused product in compliance with local regulations.

SECTION 14 — TRANSPORT INFORMATION

TDG Canada (Land)	Not regulated
US DOT (Land)	Not regulated
IMO/IMDG (Sea)	Not regulated
IATA (Air)	Not regulated
Marine Pollutant	No marine pollutant designation
Poison Inhalation Hazard	No

SECTION 15 — REGULATORY INFORMATION

WHMIS 2015 (Canada)	This SDS complies with Canada's Hazardous Products Regulations (WHMIS 2015). Castor oil is not classified as a controlled product under WHMIS 2015. No GHS hazard classifications apply.
SARA 302 Components	No chemicals in this material are subject to SARA Title III, Section 302 reporting requirements
SARA 311/312 Hazards	No SARA Hazards
SARA 313 Components	This material does not contain chemicals with known CAS numbers exceeding De Minimis reporting levels
NFPA Rating	Health: 0 Fire: 0 Reactivity: 0
HMIS Rating	Health: 0 Flammability: 0 Physical Hazard: 0

SECTION 16 — OTHER INFORMATION

SDS Version	1.1
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Issue Date	August 12, 2026
Prepared By	Navy Heart Essential Oils, Calgary, Alberta, Canada
Source Documents	Supplier MSDS CoA Report No. BR-250608, Lot BR-250606

Version	Date	Summary of Changes
1.0	May 23, 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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