



Safety Data Sheet

For INDIA, According to GHS (Rev. 8)



CASTOR OIL

Date of compilation: 16-08-2026 | Revised: 16-08-2026 | Version: 1

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

CASTOR OIL
Ricinus communis oil; Castor seed oil
CAS: 8001-79-4

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Raw material for soaps, lubricants, cosmetics, paints & coatings, polyurethanes, pharmaceuticals and chemical intermediates (e.g. sebacic acid, dehydrated castor oil). For industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3. Not for unsupervised food or oral/pharmaceutical use without further processing and regulatory clearance.

1.3 Supplier's details:

SURAJ CHEMICALS
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281
Email: sales@surajchemicals.com | Website: www.surajchemicals.com
GST No: 33ACEPV8190L1ZZ

1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:
Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Based on available data, Castor Oil is **not classified** as hazardous under GHS criteria.

Not Classified	No hazard class meets GHS classification criteria based on available data
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2.2 GHS label elements, including precautionary statements:

GHS: No signal word required

Hazard statements:

None required under GHS.

Precautionary statements:

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/eye protection when handling in bulk.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of contents/container in accordance with local regulations.

2.3 Other hazards which do not result in classification:

Oil-soaked rags, fibrous packing or absorbents may self-heat/auto-oxidise on storage and present a latent fire risk if not handled correctly (see Section 7). Slip hazard on spillage.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Vegetable oil – glyceryl triester predominantly of ricinoleic acid, obtained by pressing/extraction of castor seeds (Ricinus communis).
In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 8001-79-4	Castor Oil – Not classified	≥ 99%

To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Generally regarded as a low-hazard product; no special first-aid measures normally required. If symptoms persist, seek medical attention showing the SDS of this product.

By inhalation:

Not a normal route of exposure under intended use. If mist/vapour is inhaled during heating, remove to fresh air and keep at rest.

By skin contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water. Seek medical attention if irritation persists.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes, lifting upper and lower eyelids. Remove contact lenses if present and easy to do. Seek medical advice if irritation persists.

By ingestion/aspiration:

Rinse mouth with water. Do not induce vomiting. Castor oil has a known laxative/purgative action; seek medical attention if large quantities are ingested or if discomfort persists.

4.2 Most important symptoms/effects, acute and delayed:

Mild eye/skin irritation possible on prolonged contact. Ingestion in quantity may cause gastrointestinal upset/purgative effect. See Sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not relevant

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:
Suitable: Water fog/spray, foam (AFFF), dry chemical powder (ABC), carbon dioxide (BC)
Unsuitable: High-pressure water jet (may splash and spread burning oil)

5.2 Specific hazards arising from the chemical:
Combustible liquid at elevated temperature. On heating/burning may produce irritating smoke, carbon monoxide and carbon dioxide. Oil-contaminated absorbents/rags are subject to spontaneous self-heating.

5.3 Special protective actions for fire-fighters:
Evacuate non-essential personnel. Use self-contained breathing apparatus (SCBA) and full protective clothing in enclosed/confined fire situations. Cool exposed containers with water spray.

Additional provisions:
Contain fire-fighting water run-off to prevent environmental contamination.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:
For non-emergency personnel:
Avoid slipping on spilled product. Use appropriate PPE (Section 8). Ventilate area if heated/fuming.
For emergency responders:
Wear suitable protective equipment. Prevent material from entering drains/watercourses.

6.2 Environmental precautions:
Prevent entry into drains, sewers and watercourses. Bund/contain large spills. Notify the relevant authority in case of significant release to the environment.

6.3 Methods and materials for containment and cleaning up:
Contain spill, absorb with inert absorbent material (sand, earth, vermiculite), sweep/shovel into suitable closed containers for disposal or reclamation. Wash residual area with detergent and water; avoid creating a slip hazard.

6.4 Reference to other sections:
See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:
A. General precautions for safe use:
Avoid prolonged skin contact. Use with adequate ventilation when heated. Avoid contamination with strong oxidising agents.
B. Technical recommendations for the prevention of fires and explosions:
Keep away from open flame/sources of ignition when heated above flash point. Dispose of oil-soaked rags/absorbents in metal containers with lids to prevent self-heating.
C. Technical recommendations on general occupational hygiene:
Wash hands after handling. Do not eat or drink while handling the product.
D. Technical recommendations to prevent environmental risks:
Prevent spillage from entering drains or watercourses. Store in banded areas where large volumes are held.

7.2 Conditions for safe storage, including any incompatibilities:
A. Specific storage requirements:

Minimum Temp.	5°C
Maximum Temp.	35°C
Maximum time	12 Months (in original sealed packaging, cool/dry place)

B. General conditions for storage:
Store in tightly closed containers, away from direct sunlight, strong oxidisers and heat sources. Keep containers properly labelled.

7.3 Specific end use(s):
Industrial raw material for soap, lubricant, coatings, polymer and chemical intermediate manufacture; see Section 1.2. Except for the instructions already specified, no special recommendations are required.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:
No specific occupational exposure limit (OEL) has been established for Castor Oil under the Factories Act, 1948 (as amended). General oil mist exposure limits (where applicable) should be referred to for aerosol/mist-generating operations.

Identification	Occupational Exposure Limit Type	Value
Castor Oil CAS: 8001-79-4	Not established	Typical value – refer to current specification sheet

8.2 Appropriate engineering controls:
General ventilation is normally adequate. Use local exhaust ventilation where mist/vapour is generated (heating, spraying operations).

B. Respiratory protection:
Not normally required under ambient conditions. Use an organic vapour/mist respirator for heated or spraying operations.

C. Specific protection for the hands:
Chemical-resistant gloves (nitrile or neoprene) recommended for prolonged/repeated contact.

D. Eye and face protection:
Safety glasses/goggles recommended where splashing is possible.

E. Bodily protection:
Chemical-resistant apron/overalls for bulk handling. Safety footwear recommended.

F. Additional emergency measures:
Eyewash station and washing facilities should be available in the work area.

Environmental exposure controls:
Avoid release to the environment. See subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Liquid
Appearance	Viscous oily liquid
Color	Pale yellow to colourless
Odor	Mild, characteristic
Odour threshold	Not established

Volatility	
Boiling point at atmospheric pressure	> 300°C (decomposes)
Vapour pressure at 20°C	Negligible
Evaporation rate at 20°C	Negligible
Product Description	
Density / Relative density at 20°C	0.955 – 0.965 g/cm³
Dynamic / Kinematic viscosity at 25°C	650 – 750 cP (Typical value – refer to current specification sheet)
Concentration	Non-applicable (single substance)
pH	Not relevant (water-insoluble oil)
Vapour density at 20°C	Not relevant
Partition coefficient n-octanol/water	> 4 (estimated, triglyceride ester)
Solubility in water at 20°C	Insoluble; soluble in alcohol, chloroform, ether
Decomposition temperature	Not established
Melting point/freezing point	-10 to -18°C (pour point)
Flammability	
Flash Point	> 225°C (Cleveland Open Cup, typical)
Flammability (solid, gas)	Non-applicable (liquid)
Autoignition temperature	> 440°C (typical for vegetable oils)
Lower / Upper flammability limit	Not established
Particle Characteristics	
Median equivalent diameter	Non-applicable (liquid)

Values are typical for commercial-grade Castor Oil – refer to current specification sheet for batch-specific figures.

9.2 Other information:

Explosive properties	Not relevant
Oxidising properties	Not an oxidiser
Corrosive to metals	Not corrosive
Heat of combustion	Typical value – refer to current specification sheet
Surface tension at 20°C	Typical value – refer to current specification sheet
Refraction index	1.473 – 1.477 (typical)
Iodine value	82 – 90 (typical)
Saponification value	176 – 187 (typical)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Stable under normal conditions of use. May react with strong oxidising agents, generating heat.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use. May undergo slow oxidative polymerisation/rancidity on prolonged exposure to air and light.

10.3 Possibility of hazardous reactions:

Under specified conditions, hazardous reactions are not expected. Oil-soaked absorbents/rags may self-heat and ignite spontaneously if not disposed of correctly.

10.4 Conditions to avoid:

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Avoid prolonged exposure (oxidation)	Avoid prolonged heating >flash point	Avoid prolonged direct exposure	Not applicable

10.5 Incompatible materials:

Strong Oxidisers	Strong Acids/Alkalis	Heat Sources
Avoid contact	Avoid contact (hydrolysis/saponification)	Avoid prolonged exposure

10.6 Hazardous decomposition products:

Thermal decomposition/combustion may generate carbon monoxide, carbon dioxide and irritating aldehyde/acrolein-type fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Castor Oil is of low acute toxicity. Based on available data, classification criteria for GHS hazard classes are not met.

A. Ingestion (acute effect):

Low acute oral toxicity. Known purgative/laxative effect at higher doses; may cause gastrointestinal discomfort, diarrhoea.

B. Inhalation (acute effect):

Not a normal route of exposure. Mist/vapour from heating may cause mild respiratory irritation.

C. Contact with skin and eyes (acute effect):

Generally considered non-irritating to mildly irritating to skin and eyes; may cause mild transient irritation on prolonged/repeated contact.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):

Classification criteria for carcinogenicity, mutagenicity and reproductive toxicity are not met based on available data. IARC: Not listed.

E. Sensitizing effects:

Classification criteria for respiratory or skin sensitisation are not met based on available data.

F. Specific target organ toxicity (STOT) – single exposure:

Classification criteria are not met based on available data.

G. Specific target organ toxicity (STOT) – repeated exposure:

Classification criteria are not met based on available data.

H. Aspiration hazard:

Classification criteria are not met based on available data.

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
Castor Oil CAS: 8001-79-4	LD50 oral: > 15000 mg/kg	Rat
	LD50 dermal: > 5000 mg/kg	Rabbit

SECTION 12: ECOLOGICAL INFORMATION

Not expected to be hazardous to the aquatic environment under GHS criteria; readily biodegradable natural oil.

12.1 Toxicity:

Acute Toxicity	Species	Genus
LC50: > 1000 mg/L (96h) (Typical value – refer to current specification sheet)	Non-applicable	Fish

12.2 Persistence and degradability:

Readily biodegradable (natural triglyceride oil).

12.3 Bioaccumulative potential:

Low bioaccumulation potential expected; not established.

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
Not established	Not relevant	Low mobility (viscous oil)	Low mobility

12.5 Results of PBT and vPvB assessment:

Does not meet PBT/vPvB criteria.

12.6 Other adverse effects:

May cause physical fouling (coating) of aquatic organisms/birds in case of large spills.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Collect for recycling/reprocessing where possible, or dispose of via a licensed waste disposal contractor in accordance with national and local regulations. Do not discharge to drains or watercourses. Empty containers may retain residue; dispose of as per label instructions.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

14.1 UN number	Non-applicable – not classified as dangerous goods
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22):

14.1 UN number	Non-applicable – not classified as dangerous goods
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	N/A
14.5 Marine pollutant	No
14.6 Special precautions for user	Non-applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024):

14.1 UN number	Non-applicable – not classified as dangerous goods
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	Non-applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989
The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
Food Safety and Standards Act, 2006 (where applicable to edible/pharma-grade material)

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

Not applicable – product not classified as hazardous.

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

The United Nations Economic Commission for Europe (UNECE); publicly available GHS classification references for vegetable oils.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | Koc: Partition coefficient of organic carbon | IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET