

Material Safety Data Sheet (MSDS) According 91/155/ECC

Product: Refined Castor Oil First Special Grade

1. IDENTIFICATION

1. Name CASTOR OIL
2. Code Caso
3. Identity Ricinuscommunis
4. Company Name

5. CAS 8001-79-4
6. FEMA 2263
7. FDA 172.510
8. COE 401 n
9. EINECS 232-293-8

2. COMPOSITION / INFORMATION ON INGREDIENTS

Castor oil composition	CAS #	%	Limits
Ricinoleic Acid	141-22-0	86.62	85-90%
Linoleic Acid (C18:2)	60-33-3	0.09	≤1.0
Linolenic Acid (C18:3)	463-40-1	4.26	2.5-7.0%
Oleic Acid (C18:1)	112-80-1	4.88	2.5-6.0%
Steric Acid (C18)	57-11-4	1.61	≤2.5%
Palmitic Acid(C16)	57-10-3	1.16	≤2.0%
n-eicosanic acid(Arachidic acid)(C20:1)	506-30-9	0.76	≤1.0%
Other Fatty Acid	NA	0.62	<1.0%

3. NATURE OF HAZARD Not a primary hazard

4. FIRST AID

1. Inhalation: Not expected to require first aid measures.
2. Ingestion: If large amounts were swallowed, give water to drink and get medical advice.
3. Skin Contact: Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.
4. Eye Contact: Not expected to require first aid measures. Wash thoroughly with running water. Get medical advice if irritation develops.

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5. FIRE FIGHTING

- | | |
|------------------|---|
| 1. Extinguisher: | Carbon dioxide, dry powder or foam conventional fire fighting equipment |
| 2. Water: | Water may cool but not extinguish fire |
| 3. Decomposed: | Emits smoke, fumes, CO ₂ and CO; keep upwind |
| 4. Hazards: | Not a primary hazard |

6. ACCIDENTAL RELEASE

Stop engine, mark the road and warn other road users.
Keep public away while cleaning up

7. STORAGE

Store in cool, dry place

8. PERSONAL PROTECTION

- | | |
|----------|---|
| 1. Skin: | Not expected to be a health hazard from skin exposure. May cause mild irritation and redness. |
| 2. Eyes: | No adverse effects expected. May cause mild irritation, possible reddening. |

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---------------------------|--------------------------|
| 1. State: | Viscous liquid |
| 2. Odour: | Mild fatty |
| 3. pH | n/a |
| 4. Boiling Pt. C: | n/a |
| 5. Melting Pt. C: | minus 10 |
| 6. Flash Pt. C: | 230 |
| 7. Flammability: | Combustible |
| 8. Vapour pressure: | n/a |
| 9. Auto flammability: | 449 Deg C |
| 10. Explosive properties: | n/a |
| 11. Oxidising properties: | n/a |
| 12. Density at 20 C: | 0.96 |
| 13. Solubility in water: | Sparingly soluble |
| 14. Solubility in oil: | Soluble |
| 15. Exposure: | n/a |
| 16. Viscosity: | 6 to 8 poise at 25 Deg C |

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10. STABILITY Stable, does not discolour under normal conditions

11. TOXICOLOGY LD50> 5000 mg / Kg (Rat) oral

12. ECOLOGY Not a listed Marine Pollutant

13. DISPOSAL Sweep up carefully and transfer to another container and dispose in accordance with local regulations. Subsequently flush the area with water.

14. TRANSPORTATION

- | | |
|----------------------------|-----------|
| 1. UN number: | No number |
| 2. Road: | No class |
| 3. Sea: | No class |
| 4. Air: | No class |
| 5. UN packing: | No class |
| 6. Harmonized Tariff code: | 1515.30 |

15. REGULATIONS

BEOA CHIP guidance: No symbol

16. OTHER DATA

- | | |
|---------------|---|
| 1 Uses: | Solvent |
| 2 Dosage: | up to 20% |
| 3 References: | The Merck Index 12 th ed, mono 1946 (1996) |