Safety Data Sheet · OSHA HCS 2024

# 100% Pure Castor Oil Technical Grade

Technical · 100%

| Standard | Revised | Emergency |
|---|---|---|
| OSHA HCS 2024 · GHS Rev. 7 | 2026-11-12 | Chemtel 1-800-255-3924 (24/7) |

## 1 Identification

| | |
|---|---|
| Product Identifier | 100% Pure Castor Oil Technical Grade |
| Grade | Technical |
| Concentration | 100% |
| CAS Number | 8001-79-4 |
| Manufacturer | Alliance Chemical<br>204 South Edmond Street, Taylor, TX 76574 |
| Emergency Phone | Chemtel 1-800-255-3924 (24/7) |
| Synonyms | Ricinus communis (castor) seed oil; ricinus oil; oleum ricini |
| Recommended Use | Industrial lubricant and hydraulic-fluid base; plasticizer; feedstock for coatings, inks, resins and soaps. |
| Restrictions on Use | Technical grade: not for food, drug or cosmetic use. |

## 2 Hazard Identification

| | |
|---|---|
| Signal Word | Not applicable |
| Hazard Statements | Not classified as hazardous under GHS based on available data. |
| Precautionary Statements | No specific GHS precautionary statements required. |

## 3 Composition / Information on Ingredients

| Component | CAS No. | Formula | Concentration |
|---|---|---|---|
| Castor oil (Ricinus communis seed oil) | 8001-79-4 | – | 100% (w/w) |

Concentrations are nominal; lot-specific values appear on the Certificate of Analysis. Components not contributing to classification are omitted.

## 4 First-Aid Measures

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|---|---|
| Eyes | Rinse with water. Get medical attention if irritation develops or persists. |
| Skin | Wash with soap and water. Get medical attention if irritation develops. |
| Inhalation | Move to fresh air if discomfort occurs. |
| Ingestion | Rinse mouth with water. Get medical attention if you feel unwell. |
| Most Important Symptoms and Effects | No specific symptoms are expected from the hazards identified in Section 2. |
| Immediate Medical Attention and Special Treatment | Treat symptomatically. Get medical attention if symptoms develop or persist. |

## 5 Fire-Fighting Measures

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| Suitable Extinguishing Media | Use water spray, alcohol-resistant foam, dry chemical, or CO2. Use measures appropriate to local circumstances. |
| Unsuitable Extinguishing Media | Do not use a solid water stream as it may scatter and spread fire. |
| Specific Hazards Arising from the Chemical | Containers may rupture when heated. |
| Protective Equipment | Wear self-contained breathing apparatus and full protective clothing. |
| Hazardous Combustion Products | Carbon monoxide, carbon dioxide, low-molecular-weight hydrocarbons and acrid smoke when burned or overheated. |

## 6 Accidental Release Measures

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| Personal Precautions | Wear safety glasses and gloves for cleanup. Spills can make floors slippery. |
| Environmental Precautions | Avoid releasing large quantities to drains or waterways. |
| Containment & Cleanup | Absorb or wipe up, then rinse the area with water. Dispose of according to local regulations. |

## 7 Handling and Storage

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|---|---|
| Safe Handling | Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use. |
| Safe Storage | Store in a cool, dry, well-ventilated area. Keep away from incompatible materials (see Section 10). Keep containers tightly closed. |
| Specific Storage Precautions | Keep closed in a cool, dry place out of direct sunlight to slow rancidity. Store away from oxidizers. |

## 8 Exposure Controls / Personal Protection

### Occupational Exposure Limits

| Limit | Value |
|---|---|
| Other Limits | No OSHA, ACGIH or NIOSH limit established |

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| Engineering Controls | General ventilation is normally adequate. |
| Eye/Face Protection | Safety glasses are recommended. |
| Skin Protection | Gloves are recommended for prolonged or repeated contact. |
| Respiratory Protection | Not normally required. |

Exposure limits sourced from NIOSH Pocket Guide, OSHA 29 CFR 1910.1000 and ACGIH TLVs.

## 9 Physical & Chemical Properties

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|---|---|
| Appearance | Pale yellow viscous liquid, translucent smooth |
| Odor | Faint, characteristic vegetable-oil odor |
| Odor Threshold | No data available |
| pH | No data available |
| Melting Point / Freezing Point | About -10 °C (14 °F); thickens and begins to solidify below this |

| | |
|---|---|
| Boiling Point | About 313 °C (595 °F), with decomposition |
| Flash Point | 229 °C (444 °F), closed cup |
| Evaporation Rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper/Lower Flammability or Explosive Limits | No data available |
| Vapor Pressure | Negligible at 20 °C |
| Vapor Density | No data available |
| Relative Density | 0.958–0.969 at 15–25 °C (water = 1) |
| Solubility | Insoluble in water; soluble in ethanol |
| Partition Coefficient (n-octanol/water) | No data available |
| Auto-ignition Temperature | 449 °C (840 °F) |
| Decomposition Temperature | No data available |
| Viscosity | 600–800 cSt at 25 °C |
| Particle Characteristics | Not applicable |
| Form | Liquid |
| Density | 0.954 – 0.960 g/cm$^3$ at 20 °C |
| Refractive Index | 1.477 - 1.481 |

Values shown reflect product-specific canonical data. Lot-specific ranges may vary; see the Certificate of Analysis for the shipped lot.

## 10 Stability and Reactivity

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| Reactivity | Not reactive under normal conditions of use and storage. |
| Chemical Stability | Stable under recommended storage conditions. |
| Possibility of Hazardous Reactions | None under normal processing conditions. |
| Conditions to Avoid | Excessive heat, open flame and direct sunlight; contact with strong oxidizers. |
| Incompatible Materials | Strong oxidizing agents; strong acids and bases. |
| Hazardous Decomposition Products | Carbon monoxide, carbon dioxide, low-molecular-weight hydrocarbons and acrid smoke when burned or overheated. |

## 11 Toxicological Information

See below for route-specific acute toxicity data.

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|---|---|
| Likely Routes of Exposure | Inhalation, skin contact, eye contact, ingestion. |
| Symptoms | No specific symptoms are expected from the hazards identified in Section 2. |
| Delayed and Chronic Effects | No delayed or chronic effects identified beyond the classification in Section 2. |

| Route | Value |
|---|---|
| LD50 Oral | > 5,000 mg/kg (rat, read-across) |

### Carcinogen Classification

| Agency | Status |
|---|---|

| Agency | Status |
|---|---|
| IARC | Not listed as carcinogen. |
| NTP | Not listed as carcinogen. |
| OSHA | Not listed as carcinogen. |

## 12 Ecological Information

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|---|---|
| **Ecotoxicity** | Data not available. Avoid release to the environment. |
| **Persistence & Degradability** | Not Available |
| **Bioaccumulative Potential** | Not Available |
| **Mobility in Soil** | Not Available |

## 13 Disposal Considerations

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

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| **EPA RCRA Waste Codes** | Not a listed or characteristic hazardous waste. Oily absorbents and rags should be collected in closed metal containers. |

## 14 Transport Information

**Not regulated** for transport under US DOT 49 CFR Subchapter C, IMDG, or IATA DGR.

## 15 Regulatory Information

| Inventory / List | Status |
|---|---|
| California Proposition 65 | Not listed |
| US EPA TSCA Active Inventory | Listed |
| EPCRA SARA 313 (TRI) | Not listed |
| **CERCLA Reportable Quantity (RQ)** | Not a CERCLA hazardous substance (no RQ); not an EPCRA Section 313 chemical. |

SARA 311/312 hazard categories correspond to the GHS classification in Section 2. Data retrieved as of: California Proposition 65 2026-11-02; US EPA TSCA Active Inventory 2026-11-02; EPCRA SARA 313 (TRI) 2026-11-02.

## 16 Other Information

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|---|---|
| **Revision Date** | 2026-11-12 |
| **Format** | 16-section format per OSHA HCS 2024 (29 CFR 1910.1200, Appendix D), aligned with GHS Rev. 7. |

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