Safety Data Sheet · OSHA HCS 2024

100% Pure Castor Oil ACS Grade

ACS Grade · 100%

Standard	Revised	Emergency
OSHA HCS 2024 · GHS Rev. 7	2026-11-20	Chemtel 1-800-255-3924 (24/7)

1 Identification

Product Identifier	100% Pure Castor Oil ACS Grade
Grade	ACS Grade
Concentration	100%
CAS Number	8001-79-4
Manufacturer	Alliance Chemical 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	Laboratory reagent; research and formulation work.
Restrictions on Use	Laboratory 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

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

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

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

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

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

Appearance	Pale yellow viscous liquid
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
Color	NMT 2
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

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.

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

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.

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

Revision Date	2026-11-20
Format	16-section format per OSHA HCS 2024 (29 CFR 1910.1200, Appendix D), aligned with GHS Rev. 7.

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