

SAFETY DATA SHEET
Last Revision Date: 06-12-2019

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Castor Seed Oil
Synonyms: Castor Bean Oil, Ricinus Communis Oil, Palma Christa, Palm of Christ Oil
Recommended use: *Castor Oil is used in the medical industry as an ingredient in drugs, in the cosmetics and skin care industries, and in industrial applications for lubricants, plastics, rubbers, synthetic resins.*
Claims: Kosher Pareve
Halal Compliant (not certified)
CAS #: 8001-79-4
Origin: Castor oil (USP Grade) is extracted from the seed of Ricinus Communis. Refined.

SECTION: 1.2 COMPANY IDENTIFICATION

Company: Essential Depot Greener Life Essentials
2029 US Hwy 27 S
Sebring, Florida 33870
Phone: 866-840-2495
Emergency Phone: CHEMTREC, Inside the USA: **1-800-424-9300**

SECTION: 2. Hazard(s) identification

Physical hazards: Not classified.
Health hazards: Not classified.
Environmental hazards: Not classified.
OSHA defined hazards: Not classified.
Label elements:
Hazard symbol: None.
Signal word: None.
Hazard statement: The substance does not meet the criteria for classification.
Precautionary statements:
Prevention: Observe good industrial hygiene practices.

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Response: Wash hands after handling.
Storage: Store at 65° - 75° F in a dry and odor-free environment. The shelf-life is 2 years from date of manufacture in unopened containers.
Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC): None known.

Food Grade Statement: Castor Oil is Generally Recognized as Safe (GRAS) as per 21CFR 182.1; it is manufactured to Good Manufacturing Practices and is safe for its intended use in foods.

SECTION: 3. Composition/information on ingredients

Substances

<u>Property</u>	<u>Typical Analysis</u>	<u>Method</u>
Appearance @ 25°C	Light Yellow Viscous Liquid	Visual
Free Fatty Acid	Passes the test (USP-33)	AOCS Standard Methods
Distinction from most other Fixed Oils	Passes the test (USP-33)	AOCS Standard Methods
Hydroxyl Value	160 – 168 (USP-33)	AOCS Standard Methods
Specific Gravity @ 25°C	0.957 – 0.961 (USP-33)	AOCS Standard Methods
Iodine Value	83 - 88 cg/g (USP-33)	AOCS Cd 1d-92
Saponification Value	176 - 182 mg KOH/gr	AOCS Cd 3-25
Heavy Metals:		
Lead (Pb)	0.001% Max (USP-33)	AOCS Standard Methods
Cadmium (Cd)	0.001% Max (USP-33)	AOCS Standard Methods
Arsenic (As)	0.001% Max (USP-33)	AOCS Standard Methods
Mercury (Hg)	0.001% Max (USP-33)	AOCS Standard Methods
Detection Limits: 0.1mg/kg		

Nutritional Information

	Per 100 gm	Per 14 gm	% DV per 14 gm
Calories	900	120	--
Fat Grams	100	14	22
Total Carbohydrate (g)	0	0	0
Dietary Fiber (g)	0	0	0
Sugars (g)	0	0	0
Protein (g)	0	0	0

Not a significant source of Vitamin A, Vitamin C, dietary fiber, or sugars. Percent Daily Values are based on a 2,000 calorie diet.

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The FDA does not recommend as a nutritional supplement because Castor Oil has no nutritional benefits and is a strong stimulant laxative.

Ingredients Statement:	Castor Oil Contains Vitamin E
Country of Origin:	India
Applications:	Castor Oil is used in the medical industry as an ingredient in drugs, in the cosmetics and skin care industries, and in industrial applications for lubricants, plastics, rubbers, synthetic resins.
Claims:	Kosher Pareve Halal Compliant (not certified)
Process Flow:	Castor oil (USP Grade) is extracted from the seed of Ricinus Communis. Refined.
Status of Ingredient Statement:	Castor Oil is considered suitable for Vegan diets, Lactose Free, Gluten Free, Glutamate Free, BSE Free.
Food Grade Statement:	Castor Oil is Generally Recognized as Safe (GRAS) as per 21CFR 182.1; it is manufactured to Good Manufacturing Practices and is safe for its intended use in foods.
Non-GMO Statement:	Castor Oil is a non-GMO product; it does not contain any ingredients, additives, or processing aids derived from commodities that have commercially grown GMO varieties in the supply chain.
Quality:	Finest quality
Uses:	Soapmaking and Skin Care, increases lathering. Too much castor oil in recipe may cause soft and sticky product.
Spoilage:	Not for internal use. When in contact with water. Contact with water may give rise to soluble lower fatty acids and glycerol which causes rancidity together with changes in: Color (yellow to brown), odor, and taste as well as gelling and thickening.

SECTION: 4. FIRST AID MEASURES

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Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact:	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact:	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed:	Headache. Nausea, vomiting.
Indication of immediate medical attention and special treatment needed:	Treat symptomatically.
General information:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION: 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide (CO2).
Unsuitable extinguishing media:	Nature of decomposition products not known.
Special protective equipment and precautions for firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting equipment/instructions:	Move containers from fire area if you can do so without risk.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

SECTION: 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

SECTION: 7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage, including any incompatibilities: Store at 65° - 75° F in a dry and odor-free environment. Store in original container and away from light. The shelf-life is 2 years from date of manufacture in unopened containers.

Precautions and safe clean up: Oily cleaning rags should be collected regularly and immersed in water, or spread to dry in safe-place away from direct sunlight or immersed in solvents in a suitably closed container.

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Castor oil	8001-79-4	TWA	10 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits

Occupational exposure limits: No exposure limits noted for ingredient(s).

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain

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airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment:

The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

- Eye/face protection:** Wear safety glasses with side shields (or goggles).
- Skin protection:** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Wear appropriate chemical resistant clothing.
- Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.
- Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.
- General hygiene considerations:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:**
- Physical state:** Liquid.
 - Form:** Liquid.
 - Color:** Pale Yellow
- Odor:** Characteristic
- Odor threshold:** Not available
- pH:** Not available.
- Melting point/freezing point:** -18 °C (-10 °F)
- Initial boiling point and boiling range:** 313 °C (595 °F)
- Flash point:** > 113.00 °C (> 235.40 °F) - closed cup
- Evaporation rate:** Not available
- Flammability (solid, gas):** Not applicable

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**Upper/Lower flammability
or explosive limits:**

**Flammability limit -
lower(%):** Not available

**Flammability limit -
upper(%):** Not available

**Explosive limit -
lower(%):** Not available

**Explosive limit -
upper(%):** Not available

Vapor pressure: Not available

Vapor density: Not available

Relative density: (water = 1): 0.96; 0.961 g/mL at 25 °C (77 °F)

Solubility (water): Miscible

**Partition coefficient
(n-octanol/water):** -1.76

Auto-ignition temperature: Not available

**Decomposition
temperature:** Not available

Viscosity: Viscous

Other information:

Density: 0.961 g/mL at 25 °C (77 °F) : 8.02 lbs/gal

Dynamic viscosity: Not available

Explosive properties: Not explosive

Flammability class: Combustible

SECTION: 10. STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Material is stable under normal conditions.

**Possibility of hazardous
reactions:** No dangerous reaction known under conditions of normal use.

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Conditions to avoid:	Open flame, contact with incompatible materials. Wet/soaked materials may auto-oxidize, generate heat, and in-time smolder and ignite. Avoid oil-soaked materials being folded, bunched, or piled together.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. Other decomposition products - No data available

SECTION: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:	No adverse effects due to inhalation are expected.
Skin contact:	Repeated or prolonged contact with skin may cause dermatitis.
Eye contact:	Direct contact with eyes may cause temporary Irritation.
Ingestion:	The substance is irritating to the gastrointestinal tract.
Symptoms related to the physical, chemical and toxicological characteristics:	Headache. Nausea, vomiting.
Acute toxicity:	Not known.
Skin corrosion/irritation:	Prolonged skin contact may cause temporary irritation
Serious eye damage/eye irritation:	Direct contact with eyes may cause temporary irritation.
Respiratory sensitization:	Not a respiratory sensitizer.
Skin sensitization:	This product is not expected to cause skin sensitization.
Germ cell mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	Not classifiable as to carcinogenicity to humans.

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.OSHA Specifically Regulated Substances (29 CFR 1910.1001-1062)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure:	Not classified.
Specific target organ toxicity - repeated exposure:	Not classified.
Aspiration hazard:	Not an aspiration hazard

SECTION: 12. ECOLOGICAL INFORMATION

Ecotoxicity:	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability:	No data is available on the degradability of this substance.
Mobility in soil:	No data available.

SECTION: 13. DISPOSAL CONSIDERATION

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations:	Dispose in accordance with all applicable regulations.
Hazardous waste code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging:	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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SECTION: 14. TRANSPORT INFORMATION

DOT: Not regulated as dangerous goods.
DOT information on packaging may be different from that listed.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

SECTION: 15. REGULATORY INFORMATION

US federal regulations: This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Castor oil CAS-No. 8001-79-4 Revision Date 1989-08-11

New Jersey Right To Know Components

Castor oil CAS-No. 8001-79-4 Revision Date: 1989-08-11

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SOWA)

Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

GLYCEROL (CAS 56-81-5) Other Flavoring Substances with OSHA PEL's

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SECTION: 16. OTHER INFORMATION

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