



## **Castor Oil U.S.P. CAS No.8001-79-4**

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### **1. Product Identification**

**Synonyms:** Ricinus Oil

**CAS No.:** 8001-79-4

**Molecular Weight:** Not applicable.

**Chemical Formula:** Not applicable.

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### **2. Composition/Information on Ingredients**

Ingredient	CAS No	Percent
Hazardous		
-----	-----	-----
-----		
Castor Oil	8001-79-4	99 - 100%
Yes		

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### **3. Hazards Identification**

#### **Emergency Overview**

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**As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.**

**SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)**

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Health Rating: 1 - Slight

Flammability Rating: 1 - Slight

Reactivity Rating: 0 - None  
Contact Rating: 1 - Slight  
Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES  
Storage Color Code: Green (General Storage)

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### **Potential Health Effects**

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**Inhalation:**

No adverse health effects expected from inhalation.

**Ingestion:**

No adverse effects expected. Large oral doses may cause spasmodic intestinal or abdominal pain.

**Skin Contact:**

Not expected to be a health hazard from skin exposure. May cause mild irritation and redness.

**Eye Contact:**

No adverse effects expected. May cause mild irritation, possible reddening.

**Chronic Exposure:**

No information found.

**Aggravation of Pre-existing Conditions:**

No information found.

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## **4. First Aid Measures**

**Inhalation:**

Not expected to require first aid measures.

**Ingestion:**

If large amounts were swallowed, give water to drink and get medical advice.

**Skin Contact:**

Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

**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 Measures**

**Fire:**

Flash point: 229C (444F) CC

Autoignition temperature: 449C (840F)

Not considered to be a fire hazard.

**Explosion:**

Not considered to be an explosion hazard.

**Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire. Water or foam may cause

frothing.

**Special Information:**

Use protective clothing and breathing equipment appropriate for the surrounding fire.

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## 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Small amounts of residue may be flushed to sewer with plenty of water.

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## 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Protect from excessive heat. Protect from freezing.

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## 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:**

None established.

**Ventilation System:**

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

**Personal Respirators (NIOSH Approved):**

Airborne exposure is not expected to be a problem under ordinary handling conditions.

**Skin Protection:**

Wear protective gloves and clean body-covering clothing.

**Eye Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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## 9. Physical and Chemical Properties

**Appearance:**

Light yellow viscous liquid.

**Odor:**

Slight characteristic odor.

**Solubility:**

Negligible (< 0.1%)

**Specific Gravity:**

0.961-0.963 @ 15.5C/15.5C

**pH:**

No information found.

**% Volatiles by volume @ 21C (70F):**

100

**Boiling Point:**

313C (595F)

**Melting Point:**

-10C (14F)

**Vapor Density (Air=1):**

Not applicable.

**Vapor Pressure (mm Hg):**

Not applicable.

**Evaporation Rate (BuAc=1):**

No information found.

**10. Stability and Reactivity****Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

Carbon dioxide and carbon monoxide may form when heated to decomposition.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Strong oxidizers.

**Conditions to Avoid:**

Excessive heat, freezing and incompatibles.

**11. Toxicological Information**

No LD50/LC50 information found relating to normal routes of occupational exposure.

Investigated as a tumorigen.

Ingredient Category	---NTP Carcinogen---		IARC
	Known	Anticipated	
Castor Oil (8001-79-4)	No	No	None

**12. Ecological Information****Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

**13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**14. Transport Information**

Not regulated.

**15. Regulatory Information**

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-----\Chemical Inventory Status - Part 1\-----
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Ingredient                                TSCA  EC   Japan
Australia
-----
Castor Oil (8001-79-4)                    Yes  Yes  No   Yes

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-----\Chemical Inventory Status - Part 2\-----
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Ingredient                                Korea  DSL  NDSL  Phil.
-----
Castor Oil (8001-79-4)                    Yes   Yes  No   Yes

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-----\Federal, State & International Regulations - Part 1\-----
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Ingredient                                -SARA 302-  -SARA 313-
Catg.                                     RQ   TPQ   List  Chemical
-----
Castor Oil (8001-79-4)                    No   No   No   No

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-----\Federal, State & International Regulations - Part 2\-----
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Ingredient                                -RCRA-  -TSCA-
CERCLA  261.33  8(d)
-----
Castor Oil (8001-79-4)                    No   No   No

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Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: No  
SARA 311/312: Acute: No    Chronic: No    Fire: No    Pressure: No

Reactivity: No (Pure / Liquid)

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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**16. Other Information**

**NFPA Ratings:** Health: **0** Flammability: **1** Reactivity: **0**

**Label Hazard Warning:**

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

**Label Precautions:**

None.

**Label First Aid:**

Not applicable.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

MSDS Section(s) changed since last revision of document include: 3.

**Disclaimer:**

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