



Section 1. Product and Company Identification

**Product Name** Hydrogenated Castor Oil  
**CAS Number** 8001-78-3

**Parchem - fine & specialty chemicals**

**415 Huguenot Street**  
**New Rochelle, NY 10801**

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EMERGENCY RESPONSE NUMBER  
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture:** Not classified

Hydrogenated Castor Oil is not a hazardous material and does not contain any hazardous ingredients.

**HMIS/NEPA**

**Health:** 0

**Fire:** 1

**Reactivity:** 0

**Personal Protection:** A

Section 3. Composition / Information on Ingredients

**Common Name** Hydrogenated Castor Oil  
**Synonym(s)** HCO; Triglyceride ester of hydrogenated fatty acid  
**CAS Number** 8001-78-3

COMPONENT	CONCENTRATION
12-hydroxyoleic acid	≥ 82%

Section 4. First Aid Measures

In case of ingestion, rinse mouth. In case of inhalation remove to fresh air immediately. In case of skin contact, wash with plenty of water and soap. In case of eye contact, rinse with plenty of water. If irritation persists, get medical attention.

Section 5. Firefighting Measures

**Extinguishing Media:** Foam, carbon dioxide, water, dry chemical powder

**Unsuitable Extinguishing Media:** No restrictions. In fire, carbon monoxide and carbon dioxide may form.



**Flash Point:** > 310°C

**Special Protective Equipment:** Not required, except regular fire-fighters equipment

Section 6. Accidental Release Measures

**Personal Precautions:** Wear suitable respiratory protection

**Environmental Precautions:** None

**Methods for Clean Up:** Sweep dry and flush with water. If melt is spilled, allow to solidify

Section 7. Handling and Storage

**Handling:** Avoid dust formation and keep away from sources of ignition

**Storage:** Keep containers closed and in dry area away from heat & light

Section 8. Exposure Controls / Personal Protection

**Engineering measures:** No special measures required

**Control Parameters:** Limit values of inert dust: max 6 mg/m<sup>3</sup>  
biological standards

**Personal Protection**

**Respiratory Equipment:** Dust mask

**Hand Protection:** Hand Savers

**Eye Protection:** Protective glasses

**Skin Protection:** None

Section 9. Physical and Chemical Properties

**Appearance:** White flakes or powder

**Odor:** Like hardened vegetable oil

**pH:** Neutral

**Boiling Point:** > 300°C

**Melting Point:** 82 - 87°C

**Flash Point:** Above 310°C

**Flammability (solid, gas):** None

**Auto flammability:** None

**Explosive Properties:** Dust explodable

**Oxidizing Properties:** None

**Vapor Pressure:** Not applicable

**Relative Density:** About 0.99 at 25°C

**Solubility - Water solubility:** Insoluble

**Fat solubility:** Insoluble in most organic solvents at room temperature

**Partition coefficient: n-octanol/water:** Not available



Section 10. Stability and Reactivity

**Conditions to avoid:** Temperatures more than 82°C leads to melting

**Materials to avoid:** Oxidizing materials & sources of ignition

**Hazardous decomposition products:** None if handled & stored according to prescription

Section 11. Toxicological Information

Expected LD50 oral-rate > 5000 mg/kg based on data taken from similar product. This product is not listed as a carcinogen by the following agencies: ACGIH, IARC, NTP and OSHA. It may cause eye irritation in case eye contact. Other data like neurological effects, reproductive toxicity, sensitization are not available.

Section 12. Ecological Information

**Mobility:** Not determined

**Degradability:** Readily biodegradable

**Accumulation:** Minimum biodegradability is 60% BSB30/CSB, resp. 70% DOC

**Short & long term effects on eco toxicity:** Acute fish toxicity LCO > 100 mg/L  
Bacteria toxicity ECO > 100 mg/L

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Not classified as hazardous (UN Hazard Code: NR)

Section 15. Regulatory Information

According to EEC Council Directive, castor oil is not a dangerous substance, but suitable precautions for handling chemicals should be taken. Registered with EINECS, AICS, ENCS, DSL, ECL, TSCA

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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