

## MATERIAL SAFETY DATA SHEET

### Section 1- Product Information

#### 1.1 Product Identifier:

Product name: Castor Oil  
Botanical Nomenclature: *Ricinus communis*  
CAS number: 8001-79-4

### Section 2- Composition / information on ingredients

#### Main components:

- Palmitic
- Palmitoleic
- Stearic
- Oleic
- Linoleic (e.g., carriers, preservatives, antioxidants): Nil.

### Section 3- Hazards identification

Inhalation: None identified.  
Skin: Concentrated liquid and vapors irritating to skin by prolonged exposure.  
Eyes: Irritating to eyes with possible damage.  
Ingestion: Harmful if swallowed.

### Section 4-First Aid Measures

Inhalation: If Discomfort is felt, remove person to a well-ventilated area with plenty of fresh air.  
Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water.  
Eyes: Flush immediately with plenty of cool water for 10 to 20 minutes. Seek Medical advice from a medical Doctor.  
Ingestion: Seek immediate medical care.

## Section 5-In Case of Fire

Extinguishing Media: Foam, Carbon dioxide.  
Do not use: Water.  
Special Precautions: Wear breathing apparatus as toxic vapors may be released during fire.

## Section 6- Spill and Leak Procedure

Individual precautions: Eliminate sources of ignition. Keep area well-ventilated and isolate the spill  
Environmental protection: Prevent the liquid from entering the drains and sewers.  
Cleaning Methods: Soak up the spill using inert absorbents. For large spills, use pumps.

## Section 7-handling and Storage

Store in a cool, dry, and dark place in suitable containers (aluminium cans or lacquer lined steel drums.  
Handle in a well-ventilated area.  
Keep away from sources of heat and ignition.

## Section 8-Personal Protection / Exposure Control

Respiratory protection: Wear breathing apparatus when working in an area of high vapor Concentration.  
Skin protection: Use protective glove. Wear protective clothing when possibility exists of contact.  
Eye protection: Goggles should be worn.  
General Precautions: Use good industrial hygiene practice

## Section 9- Physiochemical properties

Appearance:	Clear, yellow brown liquid.
Odor:	Charismatic, fatty.
pH:	Neutral.
Flash point:	250°C.
Autoignition Temperature:	Not available.
Explosion limits:	Not available.
Vapor pressure (25°C)	Not available.
Vapor Density:	>1 (air=1)
Specific Gravity:	0.905 @ 25°C
Solubility:	insoluble in water.
Partition: Coefficient log P o/w:	Not available.
Evaporation Rate:	<1 (Butyl Acetate=1)

## Section 10- Stability and Reactivity

Chemical Stability:	Stable
Conditions to avoid:	Normally stable. Not reactive with water.
Hazardous Decomposition products:	Not available.

## Section 11-Toxicological Information

### According to RIMF- Monograph:

Acute Toxicity:	Oral LD <sub>50</sub> : 5g/kg in rats.
Dermal LD <sub>50</sub> :	5g/kg in rabbits.
Irritation:	Tested without sensitization at 4%.
Phototoxicity:	No Phototoxic reaction reported.

## Section 12- Ecotoxicological information

Fish Toxicity: LCO/EC<sub>50</sub>: Not available.  
Bacteriotocity: ECO/EC<sub>50</sub>: Not available.

## Section 13-Disposable Method

Check federal, State and Local Regulations.

## Section 14- Transport Information

Non-hazardous material transport in suitable containers, "As per IATA/ICAO shipment is safe Transport".

## Section 15- Regulatory Information

### The British Essential Oil Association Chip Regulations-2002:

Hazard Symbols: Xn  
Risk Phrases: R65  
H/C%: 15 Safety Phrases: S62  
"UN NUMBER IS NOT APPLICABLE"

## Section 16- Other information

N/A