



3940 Quebec Avenue North
 Minneapolis, MN 55427
 Tel: (763) 546-4676

Emergency Assistance:
CHEMTREC® (24-hour)
1-800-424-9300

Paddock Technical Assistance:
1-800-328-5113

MATERIAL SAFETY DATA SHEET

Castor Oil, USP

Creation Date: 12-11-1990

Revision Date: 05-01-2006

SECTION 1: PRODUCT IDENTIFICATION

Product Name	Castor Oil, USP
Common Name/Trade Name	Castor Oil, USP
Manufacturer	Paddock Laboratories, Inc.
Synonyms	Ricinus Oil, Oleum Ricini
Chemical Name	NA
Chemical Family	Fixed vegetable oil (triglyceride of fatty acids).
Chemical Formula	NA

SECTION 2: COMPOSITION AND INGREDIENTS

CHEMICAL NAME	CAS#	%	OSHA PEL	ACGIH TLV	IDLH
Castor Oil, USP	8001-79-4	100	NA	NA	NA

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute and Chronic Health Effects

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion and of inhalation.

Pregnancy Comments

Use only when clearly needed.

SECTION 4: FIRST AID MEASURES

Skin Exposure

Wash with soap and water. Cover the irritated skin with an emollient. If irritation persists or develops seek medical attention.

Eye Exposure

Flush with water for at least 15 minutes. If irritation persists or develops, seek medical attention.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

Seek medical attention or contact a poison medical center immediately.

SECTION 5: FIRE / EXPLOSION HAZARDS & FIREFIGHTING MEASURES

Flammability of the Product

Maybe combustible at high temperature.

Auto-ignition Temperature

449°C (840.2°F)

Flash Points

230°C (446°F)

Flammable Limits (in air by volume, %)

Lower: NA Upper: NA

Fire Extinguishing Equipment

Use extinguishing agent suitable for type of surrounding fire.

Water Spray: OK

Foam: OK

Carbon Dioxide: OK

Dry Chemical: OK

Other: NA

Unusual Fire and Explosion Hazards

This product may produce toxic carbon monoxide and carbon dioxide fumes if heated to decomposition.

Explosion Hazards in presence of Various substances

NA

Firefighting Procedures

Wear full protective gear and safe contained breathing apparatus.

SECTION 6: SPILL AND LEAK PROCEDURES

Spills

Wear all protective gear including: respirator, goggles, and gloves. Mop up spillage with an absorbent material and place into a tight container. Wash and ventilate spill site.

SECTION 7: HANDLING AND STORAGE

Work and Hygiene Practices

Do not eat, drink or smoke near this material. Wash any contaminated clothing before use.

Storage and Handling Practices

Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F). To avoid rancidity, do not expose to temperatures above 40°C. Prevent from freezing.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor below their respective threshold limit value.

Personal Protection

Respiratory Protection

Use of a NIOSH/MSHA approved respirator recommended if airborne mists are generated.

Eye Protection

Safety glasses or goggles.

Hand Protection

Gloves.

Body Protection

Appropriate laboratory apparel.

SECTION 9: PHYSICAL / CHEMICAL PROPERTIES

Physical state and appearance

Liquid.

Molecular Weight

NA

Boiling Point

313°C (595.4°F)

Vapor Density (AIR=1)

NA

Vapor Pressure (mm Hg)

NA

Melting/Freezing Point

NA

pH

NA

Water Solubility	Insoluble in cold water.
Specific Gravity (Water =1)	0.962 @ 15°C
Water Reactivity	NA
Volatility	NA
Odor	Characteristic.

SECTION 10: STABILITY AND REACTIVITY

Stability	Stable.
Incompatible Temperature	NA
Incompatible Materials	Oxidizing agents.
Conditions of Instability	Excess heat, incompatible materials.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition	This product may produce toxic carbon monoxide and carbon dioxide fumes if heated to decomposition.
Conditions to Avoid	NA

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity	LD ₅₀ : NA
Suspected Cancer Agent	No

SECTION 12: ECOLOGICAL INFORMATION

Environmental Stability	NA
Ecotoxicity	NA
Products of Biodegradation	NA
Special Remarks	NA

SECTION 13: WASTE DISPOSAL

Dispose of material according to local, state, federal and environmental disposal regulations or company operating procedures.

SECTION 14: TRANSPORTATION INFORMATION

DOT classification	Not a DOT controlled material (US).
Identification	NA
DOT Label(s) Required	NA

SECTION 15: REGULATORY INFORMATION

SARA	NA
Federal and State Regulations	NA
U.S. TSCA Inventory Status	NA

SECTION 16: OTHER INFORMATION

DEFINITIONS OF ABBREVIATIONS USED:

ACGIH	American Conference of Governmental Industry Hygienists
CAS	Chemical Abstract Service
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health Level
LC₅₀	Medial Lethal Concentration
LD₅₀	Medial Lethal Dose
MSHA	Mine Safety and Health Administration
NA	Not Available
ND	No Data
NE	Not Established
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

SECTION 17: DISCLAIMER

The information contained in this Material Safety Data Sheet has been compiled from reliable sources and is believed to be correct as of the date issued. It is the responsibility of the user to determine the appropriateness and applicability to their situation. Paddock Laboratories, Inc. disclaims any expressed or implied warranty as to the accuracy of the above information and shall not be held liable for any direct, incidental, or consequential damages from use or reliance on the above information.