

CASTOR OIL

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: castor oil
INCI Name: ricinus communis
Synonyms: ricinus oil, oleum ricini
CAS Number: 8001-79-4
EINECS Number: 232-293-8
Origin: natural

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: >78°C (>172°F)
Boiling Point: 313°C (595°F)
Vapor Density: +1
Vapor Pressure: not available
Specific Gravity: 0.85 at 25°C
Solubility in water: insoluble
pH Value: not available
Appearance & Odor: yellowish liquid, waxy odor

3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions
Incompatibility: strong oxidizers, caustic-inorganic acids, amines-alkanolamines
Hazardous Decomposition: biodegradable; burning can produce carbon monoxide, carbon dioxide and thick smoke
Hazardous Polymerisation: will not occur

4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: No respiratory protective equipment required.
Protective Clothing: Gloves recommended to prevent prolonged skin contact. Safety glasses, goggles, or face shield recommended for eye protection.
Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

7. HAZARDS IDENTIFICATION

General: not hazardous under normal conditions.
Inhalation: no known hazards to the respiratory system due to inhalation of vapors are expected.

Eye Contact: mild irritation may occur.
Skin Contact: irritation not expected.
Ingestion: no severe adverse effects expected but has laxative effect, may cause diarrhea and gastrointestinal cramps
Chronic Exposure: no data available

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 20 minutes. Seek medical attention if symptoms persist.
Skin: Wash exposed areas of the body with water.
Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion: Do not induce vomiting. Consult medical personnel. Never give anything by mouth to an unconscious person.

9. FIRE FIGHTING MEASURES

Flash Point: >450°C (>842°F), will ignite if overheated
Extinguishing Media: water spray, foam, carbon dioxide
Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

10. TOXICOLOGICAL INFORMATION

General: product is non-toxic
Acute LD50: not data available
Carcinogenicity: not data available
Mutagenicity: not data available

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

12. TRANSPORT INFORMATION

General: not regarded as hazardous material
DOT Shipping Name: no hazard classification
ADR/ R I C Code: no hazard classification
Sea Transport I M D G Code: no hazard classification
Air Transport I A T A: no hazard classification

13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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