

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

PRODUCT NAME	JAMAICAN BLACK CASTOR OIL
SYNONYMS	Castor Oil, Ricinus Oil.
INCI NAME	Ricinus communis

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	EEC
EINECS (EUROPE) NO.	232-293-8
WHMIS CLASS	None
ORIGIN	Natural
CONTENT	100%

SECTION 3 - HAZARDS IDENTIFICATION

GENERAL	Not hazardous under normal conditions.
EMERGENCY OVERVIEW	Presents little or no immediate significant hazard if spilled or involved in a fire.
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 but extended/repeated contact may cause irritation in some individual.
INGESTION	No severe adverse effects expected but has laxative effect, may cause diarrhea and gastrointestinal cramps
LONG TERM HEALTH EFFECTS	No data available.
CONDITIONS AGGRAVATED BY EXPOSURE	No data available.
CHRONIC EXPOSURE	No data available

SECTION 4 - 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 and soap.
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.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (COC)	605°F (318°C)
EXPLOSIVE LIMITS	Lower: No data available upper: No data available
AUTO IGNITION TEMPERATURE	840°F / 449°C
EXTINGUISHING MEDIA	Water spray, foam, carbon dioxide
FIRE FIGHTING PROCEDURES	Firefighters should wear full firefighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.
SPECIAL FIRE FIGHTING PROCEDURES	As with any fire, toxic, gases, vapors and fumes can be generated therefore use pressure-demand, self-contained breathing apparatus (MSHA/NIOHS approved or equivalent) and full protective gear. Using water can cause frothing with increasing fire intensity.
UNUSUAL FIRE & EXPLOSION HAZARDS	None known.
SENSITIVITY TO EXPLOSION	None expected by mechanical impact or static discharge.
CONDITIONS OF FLAMMABILITY	Material may burn, but does not ignite readily. Avoid high temperatures.

SECTION 6 - 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.

PERSONAL PRECAUTIONS Wear protective clothing and equipment. An appropriate NIOSH/MSHA approved respirator should be used if a mist or vapor is generated.

SECTION 7 - HANDLING AND STORAGE

HANDLING	Handle in accordance with good hygiene and safety procedures. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep away from sources of ignition.
STORAGE	Can be stored in most common storage vessels. Keep away from heat, sparks or open flames. Keep away from possible contact with incompatible substances. Keep the container tightly closed and in a cool, dry and well-ventilated place.
SPECIFIC USE(S)	Follow bulk handling and storage procedures as noted above.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION	Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use and limitations. Use a positive pressure air supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respiratory protection program requirements for air respirator use.
SKIN / EYE PROTECTION	Gloves recommended preventing 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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Dark color, Viscous, Clear liquid
ODOR	Characteristic (Burnt/Roasted)
BOILING POINT	595°F / 313°C
SPECIFIC GRAVITY	0.959 at 25°C (Related to water)
VAPOR DENSITY	Heavier (Related to air)
VAPOR PRESSURE	Not available
pH	Not available
WATER SOLUBILITY	Insoluble
FREEZING POINT	-9.5 °C
VISCOSITY	6.5 to 7.5 stokes at 25°C
EVAPORATION RATE	Slower (relative to n-butyl acetate)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY	Stable under normal operational conditions
INCOMPABILITY	Strong oxidizers, caustic-inorganic acids, amines- alkanolamines
HAZARDOUS DECOMPOSITION	Biodegradable; burning can produce carbon monoxide, carbon dioxide and thick smoke
HAZARDOUS POLYMERIZATION	Will not occur.
CONDITIONS TO AVIOD	Keep away from oxidizing material.

SECTION 11 - TOXICOLOGICAL INFORMATION

GENERAL	Product is non-toxic
ACUTE LD50	Rat; > 5,000 mg/kg.
EYE IRRITATION	Rabbit; 500 mg – mild
SKIN IRRITATION	Rabbit; mild
SKIN IRRITATION	Human; 48-hour patch test – not irritating

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARD No information available

SECTION 13 - 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.

SECTION 14 - TRANSPORT INFORMATION

GENERAL	Not regarded as hazardous material
DOT SHIPPING NAME	No hazard classification
ADR/RIC CODE	No hazard classification
SEA TRANSPORT IMDG CODE	No hazard classification
AIR TRANSPORT IATA	No hazard classification

SECTION 15 - ADDITIONAL REGULATORY INFORMATION

GENERAL This product when tested as a whole is not a controlled substance within the meaning of the Hazardous Products Act. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

SARA 311/312 Chronic Health Hazard No

SARA 311/312 Acute Health Hazard No

SARA 311/312 Fire Hazard No

SARA 311/312 Sudden pressure No

SARA 311/312 Reactivity Hazard No

SECTION 16 - OTHER INFORMATION

NEPA Hazards Ratings

Health	1
Fire	1
Reactivity	0
Specific Hazard	None

HMIS Hazards Ratings

Health	1
Fire	1
Reactivity	0