





Transport Symbol	WHMIS	NFPA	Personal Protective Equipment
Not controlled	Not controlled		  

Revision Number: 1.0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:**

Castor Oil

**Use of the Substance / Preparation:**

Food Ingredient Animal Feed Industrial use

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Spontaneous combustion (fire) may result from oil soaked materials such as rags, steel wool, paper, and clothing. Place soaked materials in a sealed, metal container to prevent this. The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance**

Yellow to Clear

**Physical State**

Liquid

**Odor**

Bland

This product is NOT classified as hazardous according to 29 CFR 1910, amended to conform to the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (OSHA / GHS); SOR/88-66, the Canadian Controlled Products Regulations (CPR); and/or NOM-002-SCT-2003 (Mexico). However, vegetable oil (in mist form) is known to be listed as an OSHA 29 CFR 1910.1000 Air Contaminant. Occupational exposure limits are subsequently provided in section 8 of this SDS.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Family**

Oil

**Non-hazardous Components**

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Castor Oil	8001-79-4	99-100	None Known

## 4. FIRST AID MEASURES

**Description of first aid measures**

**General Advice** No hazards which require special first aid measures. When symptoms persist or in all cases of doubt seek medical advice.

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids.

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**Skin Contact** Wash off with warm water and soap.

**Inhalation** Move to fresh air.

**Ingestion** No special measures required. Health injuries are not known or expected under normal use.

### Most important symptoms and affects, both acute and delayed

**Eyes** Not expected to pose health issues for the eye.

**Skin** Prolonged or excessive contact with skin may result in mild irritation, however, significant health injuries are not expected under normal use.

**Inhalation** Health injuries are not known or expected under normal use. When in the form of an airborne mist, refer to section 8 of this sheet for exposure limits pertaining to "vegetable oil mist". Excessive inhalation of mist may result in respiratory irritation.

**Ingestion** Health injuries are not known or expected under normal use. Overexposure may cause: Gastrointestinal disturbance.

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Flammable Properties

Material may pose fire hazard because it is dispersed (or spread) by water.

### Extinguishing media

**Suitable Extinguishing Media** Dry chemical. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Foam. Sand. Fog. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

### Special hazards arising from the substance or mixture

**Hazardous Combustion Products** Thermal decomposition can lead to release of irritating gases and vapors, Acrolein, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Smoke, Fumes.

**Specific Hazards Arising from the Chemical** Risk of ignition. Rags and other materials containing this product may heat and spontaneously ignite, if exposed to air. Store wiping rags and similar materials in metal cans with tightly fitting lids. Cool closed containers exposed to fire with water spray.

**Sensitivity to mechanical impact** No information available.

**Sensitivity to static discharge** No information available.

### Advice for fire-fighters

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### NFPA

Health 0  
Flammability 1

Stability and Reactivity 0  
Physical hazard None known



## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Avoid high pressure washing or generation of aerosols. Material can create slippery conditions.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not allow product to reach soil, sewage system or any water course.

### Methods for Clean-up

Dam up. Soak up with inert absorbent material. Use dry spill kit material or sand, collect in appropriate containers. For disposal information see section 13. Clean contaminated surface thoroughly.

### Other Information

Oil soaked materials may spontaneously combust



**7. HANDLING AND STORAGE**

**Handling**

Ensure adequate ventilation. Do not use pressure to empty drums. Keep away from open flames, hot surfaces and sources of ignition.

**Storage**

Keep in a cool sheltered place. To maintain product quality, do not store in heat or direct sunlight.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits**

As an airborne mist containing vegetable oil, exposure limits pertaining to "vegetable oil mist" have been provided below

Chemical Name	ACGIH TLV	OSHA PEL	MEXICO	NIOSH
vegetable oil mist	TVL: 10 mg/m(3)	TWA: 5 mg/m <sup>3</sup> mist, respirable fraction TWA: 15 mg/m <sup>3</sup> mist, total	TWA: 10 mg/m <sup>3</sup> except irritant oils	TWA: 10 mg/m <sup>3</sup> total mist TWA: 5 mg/m <sup>3</sup> respirable mist

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**Personal Protective Equipment**

**Eye/face Protection.**

If exposed to airborne mist, or if splashing is possible, appropriate safety glasses with side-shields or safety goggles are recommended.

**Skin and Body Protection**

Oil resistant gloves are recommended. Appropriate body protection should be selected based on activity and possible exposure. Also take into consideration the specific local conditions under which the product is used.

**Respiratory Protection**

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection.



**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Yellow to Clear
<b>Physical State</b>	Liquid
<b>Odor</b>	Bland
<b>Odor Threshold</b>	Not applicable
<b>pH</b>	Not applicable
<b>Flash Point</b>	Greater than 232 °C
<b>Autoignition Temperature</b>	Not auto-flammable
<b>Boiling point</b>	Not applicable
<b>Melting/Freezing Point</b>	Not applicable
<b>Decomposition temperature</b>	No information available
<b>Oxidizing Properties</b>	Not expected to be oxidizing
<b>Water Solubility</b>	Insoluble
<b>Solubility(ies)</b>	Soluble in many organic solvents
<b>Evaporation Rate</b>	No information available
<b>Vapor Pressure</b>	No information available
<b>Vapor Density</b>	No information available
<b>Specific Gravity / Relative Density</b>	Approx. 0.9 (H <sub>2</sub> O=1)
<b>Partition Coefficient (n-octanol/water)</b>	No information available

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions.

**Possibility of Hazardous Reactions** None under normal processing.

**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible Materials** No materials to be especially mentioned.

**Hazardous Decomposition Products** Thermal decomposition leads to formation of acrolein, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Smoke, Fumes.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

<b>Acute toxicity</b>	Based on available data, no evidence of acute toxicity.
<b>Skin corrosion/irritation</b>	Based on available data, not, or only slightly irritating.
<b>Serious eye damage/eye irritation</b>	Based on available data, no evidence of serious eye damage / irritation.
<b>Respiratory or skin sensitisation</b>	Based on available data, not expected to be a skin or respiratory sensitiser.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, no evidence of carcinogenicity.
<b>Reproductive toxicity</b>	Based on available data, no evidence of reproductive toxicity
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, no known aspiration hazard.

### Potential health effects

<b>Eyes</b>	Not expected to pose health issues for the eye.
<b>Skin</b>	Prolonged or excessive contact with skin may result in mild irritation, however, significant health injuries are not expected under normal use.
<b>Inhalation</b>	Health injuries are not known or expected under normal use. When in the form of an airborne mist, refer to section 8 of this sheet for exposure limits pertaining to "vegetable oil mist". Excessive inhalation of mist may result in respiratory irritation.
<b>Ingestion</b>	Health injuries are not known or expected under normal use. Overexposure may cause: Gastrointestinal disturbance.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Not classified for aquatic toxicity.

### **Persistence/Degradability Mobility**

Readily biodegradable.  
The product is insoluble and floats on water.

## 13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

### **Waste Disposal Methods**

Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. Oil soaked materials may spontaneously combust and should be properly managed to avoid ignition and heat sources or oxygen rich environments. Collect and store soaked materials in closed, metal containers to help prevent combustion.

### **Contaminated Packaging**

Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION



## Castor Oil

### Domestic transport regulations (USA)

DOT Not regulated

### Domestic transport regulations (Canada)

TDG Not regulated

### Domestic transport regulations (Mexico)

MEX Not regulated

### International transport regulations

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS ISHL	CHINA	PICCS	KECL	NZIoC
Castor Oil	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes

## USA

### Federal Regulations

#### Ozone Depleting Substances:

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

#### CERCLA/SARA 103-302

Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302.

#### SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)

This product is not known to contain any HAPS.

### State Regulations

#### California Proposition 65

Proposition 65 chemicals are not expected to be found in this product above those naturally present in their agricultural source. Proposition 65 exempts naturally occurring listed chemicals from an obligation to label.

#### State Right-to-Know

Component Information.

Chemical Name	Weight %	Massachusetts	Minnesota	New Jersey	Pennsylvania
Castor Oil	99-100	No	No	No	Yes

## Canada

### WHMIS Product Classification

Not a WHMIS controlled product.

### WHMIS Ingredient Disclosure List IDL

No known component is listed on the WHMIS ingredients disclosure list.

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### (NPRI) Canadian National Pollutant Release Inventory

No known component is listed on NPRI.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.**

### Mexico

Mexico - Grade

Slight risk, Grade 1

## 16. OTHER INFORMATION

**Reason for revision:** New SDS format. This version replaces all previous versions.

### **Abbreviations and acronyms**

ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values

AICS - Australian Inventory of Chemical Substances (Australia)

CAS - Chemical Abstract Service

CHINA - Chinese Inventory of Existing Chemical Substances (China)

DOT - U.S. Department of Transportation

DSL - Domestic Substance List (Canada)

EINECS - European Inventory of Existing Commercial Chemical Substances (EU)

ELINCS - European List of Notified Chemical Substances (EU)

ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan)

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

IATA - International Air Transport Association Dangerous Goods Regulations

ICL - In Commerce List (Canada)

IMDG - International Maritime Dangerous Goods Code

IMO - International Maritime Organization

KECL - Korean Existing and Evaluated Chemical Substances (Korea)

LC50 - Lethal concentration that produces fatalities in 50% of a given test population

LD50 - Median lethal dose of a given test population

MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported

MEXICO - Mexico Occupational Exposure Limits

NDSL - Non Domestic Substances List (Canada)

NFPA - National Fire Protection Association

NIOSH - National Institute of Occupational Safety and Health

NZIoC - New Zealand Inventory of Chemicals (New Zealand)

OSHA - Occupational Safety & Health Administration

OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits

PICCS - Inventory of Chemicals and Chemical Substances (Philippines)

STOT - Specific Target Organ Toxicity

TDG - Transportation of Dangerous Goods (Transport Canada)

TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA)

TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)

WHMIS - Workplace Hazardous Materials Information System

**The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.**



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