



A division of Rutherford Chemicals, LLC

CRYSTAL O® CASTOR OIL

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MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

Manufacturer: Rutherford Chemicals LLC - CasChem Site
40 Avenue A
Bayonne, NJ 07002

Information and Emergency Phone during business hours: 1-800CASCHEM

For use only in the event of chemical emergencies involving
a spill, leak, fire, or accident with this material:
Call CHEMTREC 800 424-9300

Trade Name.....: CRYSTAL O® CASTOR OIL
Chemical Name.....: Castor oil
Synonyms.....: Ricinus oil
.....: Tangantangan oil
.....:
CAS #.....: 8001-79-4
Chemical Family.....: Castor oil
Product Code.....: 71016
Product Use.....: Personal care
PIN#.....: None
WHMIS Class.....: None

SECTION 2. COMPOSITION/INFORMATION ON COMPONENTS

Table with 3 columns: COMPONENTS, CAS #, WEIGHT %. Row 1: Castor Oil, 8001-79-4, 100%

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview:
Pale yellow viscous liquid with a characteristic odor. Presents little
or no immediate significant hazard if spilled or involved in a fire.

Breathing:
Single exposure to vapors or mist is not likely to be hazardous.

Skin Contact:
Extended/repeated contact may cause irritation in some individuals.

Eye Contact:
Contact with eyes may cause slight eye irritation.

Swallowing:
Not expected to be toxic by ingestion.

Long Term Health Effects:
Not known.

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SECTION 3. HAZARDS IDENTIFICATION

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Conditions Aggravated By Exposure:
Not known.

SECTION 4. FIRST AID MEASURES

Breathing:

No specific treatment is necessary since the material is not likely to be hazardous by inhalation. If exposed to excessive levels of vapors or mists, remove to fresh air and get medical attention if cough or other symptoms develop.

Skin:

Wash with soap and water. Get medical attention if irritation develops or persists.

Eye:

Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart. Get medical attention if irritation or other symptoms occur.

Swallowing:

Get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point.....	540 deg F	282 deg C
Method.....	pmcc	
Lower Explosive Limit.....	N/A	
Upper Explosive Limit.....	N/A	
Auto Ignition Temperature....	840 deg F	
Extinguishing Media.....	CO2, dry chemical, alcohol foam, water spray	

Firefighting Procedure:

Evacuate area and fight fire from safe distance. Wear pressure-demand self-contained breathing apparatus (MSHA/NIOSH-approved or equivalent) and full protective gear.

Special Firefighting Procedure:

As with any fire, toxic gases, vapors, and fumes can be generated. Use pressure-demand self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Using water can cause frothing with increasing fire intensity.

Unusual Fire and Explosion Hazards:

None known.

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SECTION 5. FIRE FIGHTING MEASURES

... continued

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

General:

Minimize entry of material into sewers and drainage systems. Refer to permit discharge limitations if applicable. Isolate spill area, preventing entry by unauthorized persons. Prevent skin/eye contact.

Small/Large Spills:

Stop leak. Contain product. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

SECTION 7. HANDLING AND STORAGE

Handling:

Although this material does not present a significant skin or eye concern, skin and eye contact should be avoided as good industrial practice. Wearing of protective gloves and eye protection is recommended. Wash hands and contaminated skin after handling.

Storage:

Store in a cool dry place away from strong oxidizers and acids.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Levels:

None established.

Engineering Controls:

Source of fine spray, mist or vapor should be controlled with local exhaust ventilation.

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 (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

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SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION ... continued

Eye/Face Protection:

Use safety glasses. Where contact with the eyes is likely, use chemical goggles. Use a face shield as needed.

Skin Protection:

Use impervious gloves. Use clean protective body-covering clothing as needed to minimize contact with clothing and skin.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance.....	:	Pale yellow viscous liquid	
Odor.....	:	Characteristic	
Initial Boiling Point.....	:	595 deg F	313 deg C
Final Boiling Point.....	:	595 deg F	313 deg C
Specific Gravity (Relative to Water).....	:	0.959 @77F	
Vapor Density(relative to air).....	:	N/A	
Vapor Pressure (mm Hg).....	:	N/A	
pH.....	:	N/A	
Solubility in Water.....	:	N/A	
Freezing/Melting Point.....	:	-15 deg F	
Octanol/water Partition Coefficient.....	:	N/A	
Odor Threshold.....	:	N/A	
Viscosity.....	:	7.5 stokes @ 77F	
Evaporation Rate (relative to n-Butylacetate)	:	N/A	

SECTION 10. STABILITY AND REACTIVITY

Stable:

Yes.

Strong Oxidizer:

No.

Hazardous Polymerization:

Not prone to hazardous polymerization.

Incompatibility:

Can react vigorously with oxidizing materials.

Conditions to Avoid:

Keep from contact with oxidizing materials.

Hazardous Decomposition Products:

Products of incomplete combustion may include CO, CO₂, and dense smoke.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicology:

Castor Oil (Cas# 8001-79-4);

Oral 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

Ecotoxicological Information:

Not available.

Chemical Fate:

Not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal:

Dispose of in accordance with all federal, state, and local regulations.

Container Disposal:

Dispose of in accordance with all federal, state, and local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Shipping Name...: Not regulated

Hazard Class.....:

Packing Group.....:

UN/NA No.:

DOT Labels.....:

Subsidiary Label.....:

DOT Placards.....:

IMO Shipping Name...: Not regulated

Hazard Class.....:

Packing Group.....:

UN No.:

IMO Labels.....:

Subsidiary Label.....:

IATA Shipping Name...: Not regulated

Hazard Class.....:

Packing Group.....:

UN No.:

IATA Labels.....:

Subsidiary Label.....:

continued ...

SECTION 14. TRANSPORT INFORMATION

... continued

SECTION 15. REGULATORY INFORMATION

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 302 Extremely Hazardous:

Ingredients	CAS #	Weight %	TPQ
** None **			

CERCLA Hazardous Substances:

Ingredients	CAS #	Weight %	RQ
** None **			

Section 313 Toxic Chemicals:

Ingredients	CAS #	Weight %
** None **		

NJ Environmental Hazardous Substance List:

Ingredients	CAS #
** None **	

California Proposition 65 Ingredients:

Ingredients	CAS #	Weight %
** None **		

TSCA:

This substance is listed on the TSCA inventory.

DSL/EINECS:

This substance is listed on the Canadian Domestic Substances List & the European Inventory of Existing Commercial Chemical Substances, EINECS #232-293-8

WHMIS:

This product is not classified as a controlled product under Canadian Controlled Product Regulations.

SECTION 16. OTHER INFORMATION

NFPA Hazard Ratings:
Health..... : 1
Fire..... : 1
Reactivity..... : 0
Specific Hazard.... : None

HMIS Hazard Rating:
Health..... : 1
Fire..... : 1
Reactivity..... : 0

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SECTION 16. OTHER INFORMATION

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MSDS Revisions:

4/15/97; Updated regulatory information (sect 15)
5/21/99; Added EINECS# (sect 15)

NOTE:

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V/A = Not Available