



# Material Safety Data Sheet

Product name	Castor Oil
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## 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product name	Castor oil
1.2. CAS-No.	8001-79-4
1.3. Relevant identified uses of the substance or mixture and uses advised against	
Identified uses	Laboratory chemicals, Synthesis of substances
1.4. Details of the supplier of the safety data sheet	
Company	Glory Global CO.,LTD
Address	C-208, 10, Nowon-ro 15-gil, Nowon-gu, Seoul, Korea
Emergency Phone	+82 2 6223 0862

## 2. Hazards identification

2.1. Classification of the substance or mixture	Not a hazardous substance or mixture.
2.2. GHS Label elements, including precautionary statements	Not a hazardous substance or mixture.
2.3. Hazards not otherwise classified (HNOC) or not covered by GHS	None

## 3. Composition/information on ingredients

3.1. Substances	
EC No.	232-293-8
CAS-No.	8001-79-4
Component	Castor oil
Concentration	≤ 100 %

## 4. First aid measures

4.1. Description of first aid measures	
General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2. Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3. Indication of any immediate medical attention and special treatment needed	No data available

## 5. Firefighting measures

5.1. Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2. Special hazards arising from the substance or mixture	Nature of decomposition products not known.
5.3. Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
5.4. Further information	No data available

## 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
6.2. Environmental precautions	Do not let product enter drains.
6.3. Methods and materials for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
6.4. Reference to other sections	For disposal see section 13.

## 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.  
For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.  
Storage class (TRGS 510): 12: Non Combustible Liquids

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters      Contains no substances with occupational exposure limit values.

Component	CAS-No.	Value	Control parameters	Basis
Castor oil	8001-79-4	TWA	10 mg/m <sup>3</sup>	USA, NIOSH Recommended Exposure Limits
		TWA	5 mg/m <sup>3</sup>	USA, NIOSH Recommended Exposure Limits

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

a) Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

b) Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

c) Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

d) Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

e) Control of environmental exposure

Do not let product enter drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Form: liquid, clear, viscous

Colour: light yellow

Odour

No data available

Odour Threshold

No data available

pH

No data available

Melting point/freezing point

No data available

Initial boiling point and boiling range

313 °C 595 °F

Flash point

> 113.00 °C (> 235.40 °F) – closed cup

Evaporation rate

No data available

Flammability (solid, gas)

No data available

Upper/lower flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Relative density

0.961 g/mL at 25 °C (77 °F)

Water solubility

No data available

Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
9.2. Other safety information	No data available

## 10. Stability and reactivity

10.1. Reactivity	No data available
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	No data available
10.4. Conditions to avoid	No data available
10.5. Incompatible materials	Strong oxidizing agents
10.6. Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. – Nature of decomposition products not known. Other decomposition products – No data available In the event of fire: see section 5

## 11. Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	No data available Inhalation: No data available Dermal: No data available
Skin corrosion/irritation	Skin – Human Result: Mild skin irritation – 48 h
Serious eye damage/eye irritation	Eyes – Rabbit Result: Mild eye irritation
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
a) IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
b) ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
c) NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
d) OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
Reproductive toxicity	No data available
Specific target organ toxicity – single exposure	No data available
Specific target organ toxicity – repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. Ecological information

12.1. Toxicity	No data available
12.2. Persistence and degradability	No data available
12.3. Bioaccumulative potential	No data available
12.4. Mobility in soil	No data available
12.5. Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6. Other adverse effects	No data available

## 13. Disposal considerations

13.1 Waste treatment methods	
Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

## 14. Transport information

14.1. DOT (US)	Not dangerous goods
14.2. IMDG	Not dangerous goods
14.3. IATA	Not dangerous goods

15. Regulatory information

- 15.1. SARA 302 Components  
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- 15.2. SARA 313 Components  
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- 15.3. SARA 311/312 Hazards  
No SARA Hazards
- 15.4. Massachusetts Right To Know Components  
No components are subject to the Massachusetts Right to Know Act.
- 15.5. Pennsylvania Right To Know Components  
Castor oil  
CAS-No. 8001-79-4  
Revision Date
- 15.6. New Jersey Right To Know Components  
Castor oil  
CAS-No. 8001-79-4  
Revision Date
- 15.7. California Prop. 65 Components  
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other information

- 16.1. Further information

