

Safety data sheet Cremophor® EL Castor Oil

Revision date : 2006/06/19

Version: 1.0

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(30035152/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company

BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. Composition/information on ingredients

CAS Number

61791-12-6
7732-18-5

Content (W/W)

80.0 - 100.0 %
1.0 - 5.0 %

Chemical name

castor oil, ethoxylated
Water

3. Hazard identification

Emergency overview

NO PARTICULAR HAZARDS KNOWN.

Avoid contact with the skin, eyes and clothing.

Avoid inhalation of mists/vapours.

Use with local exhaust ventilation.

Wear appropriate respiratory protection.

Wear NIOSH-certified chemical goggles.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

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If on skin:

Wash thoroughly with soap and water.

If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water.

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-fighting measures

Flash point:	257 °C	(DIN/ISO 2592)
Autoignition:	405 °C	(DIN 51794)

Suitable extinguishing media:

water spray, foam, carbon dioxide, dry extinguishing media

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

No special precautions necessary.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Cleanup:

Dispose of absorbed material in accordance with regulations.

For small amounts: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).

For large amounts: Dike spillage. Vacuum up spilled product. Place into suitable container for disposal. Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

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7. Handling and storage

Handling

General advice:

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Storage

General advice:

Keep container tightly closed and dry; store in a cool place.

8. Exposure controls and personal protection

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

Hand protection:

Chemical resistant protective gloves, Suitable materials, rubber, plastic

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	oily	
Odour:	faint specific odour	
Colour:	light yellow	
pH value:	6 - 8	(100 g/l, 20 °C)
Melting point:	approx. 4 °C	
Density:	1.05 - 1.06 g/cm ³	(25 °C)
Relative density:	1.05 - 1.06	
Viscosity, dynamic:	650 - 800 mPa.s	(25 °C)
Solubility in water:	100 g/l	(20 °C)
Solubility (qualitative):	soluble	
	solvent(s): organic solvents,	

10. Stability and reactivity

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

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Thermal decomposition:
approx. 300 °C

11. Toxicological information

Acute toxicity

Oral:

LD50/rat: > 6,400 mg/kg (BASF-Test)

Inhalation:

rat: / 8 h(IRT)

Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Dermal:

LD50/rat: > 5,000 mg/kg (BASF-Test)

Skin irritation:

rabbit: non-irritant (BASF-Test)

Eye irritation :

rabbit: non-irritant (BASF-Test)

Sensitization:

Guinea pig maximization test/guinea pig: Non-sensitizing.

Chronic toxicity

Genetic toxicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture.
The substance was not mutagenic in studies with mammals.

12. Ecological information

Environmental fate and transport

Biodegradation:

Test method:	OECD Guideline 302 B
Method of analysis:	DOC reduction
Degree of elimination:	> 70 %
Evaluation:	Not readily biodegradable (by OECD criteria). Biodegradable.

Environmental toxicity

Acute and prolonged toxicity to fish:

golden orfe/LC50 (48 h): 448 mg/l

Acute toxicity to aquatic invertebrates:

OECD Guideline 202, part 1 static

Daphnia magna/EC50 (48 h): > 100 mg/l

The details of the toxic effect relate to the nominal concentration.

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Toxicity to aquatic plants:

OECD Guideline 201 static

green algae/EC50 (72 h): > 93 mg/l

The statement of the toxic effect relates to the analytically determined concentration.

Toxicity to microorganisms:

DIN/EN/ISO 8192-OECD 209-88/302/EEC, P. C aerobic

activated sludge, industrial/EC20 (30 min): > 1,000 mg/l

13. Disposal considerations

Waste disposal of substance:

Observe national and local legal requirements.

14. Transport information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/CAO

Not classified as a dangerous good under transport regulations

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US

released / exempt

Unspecified

OSHA hazard category:

Not hazardous

CERCLA RQ

5,000 LBS

100 LBS

10 LBS

CAS Number

64-19-7

123-91-1

75-21-8

Chemical name

Acetic acid

1,4-dioxane

Ethylene Oxide

SARA hazard categories (EPCRA 311/312): Not hazardous

State regulations

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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16. Other information

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

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