# SILVER FERN CHEMICAL, INC.

# SAFETY DATA SHEET CASTOR OIL ETHOXYLATE - 5 MOL



1. Identification

Product Identifier Castor Oil Ethoxylate - 5 Mol

Synonym T-Det® C 5

Recommended Use Non-ionic surfactant.

**Recommended Restrictions** 

**Distributor Information** 

Company Name Silver Fern Chemical Inc

Address 121 W De La Guerra Street, Suite B

Santa Barbara, CA 93101 USA

Main Telephone Number +1-866-282-3384

Website www.silverfernchemical.com
E-mail Address info@silverfernchemical.com

Emergency #: Infotrac 1-800-535-5053 (USA & Canada)

Emergency #: Infotrac 1-352-323-3500 (Outside USA & Canada)

None known.

## 2. Hazard(s) Identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

Storage Store away from incompatible materials. Store in a well-ventilated place. Keep container tightly

closed. Store locked up. Store in accordance with local/regional/national/international regulations.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 100% of the mixture consists of component(s) of unknown acute oral toxicity. 100% of the mixture

consists of component(s) of unknown acute dermal toxicity. 100% of the mixture consists of component(s) of unknown acute inhalation toxicity. 100% of the mixture consists of component(s)

of unknown acute hazards to the aquatic environment. 100% of the mixture consists of

component(s) of unknown long-term hazards to the aquatic environment.

#### 3. Composition/information on ingredients

**Mixtures** 

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Chemical name	Common name and synonyms	CAS number	%
Castor Oil, Ethoxylated		61791-12-6	100
Residuals			
Chemical name	Common name and synonyms	CAS number	%
Ethylene Oxide		75-21-8	0.001
*Designates that a specific chemic	al identity and/or percentage of composition ha	as been withheld as a trade se	cret.
Composition comments	Occupational Exposure Limits for residuals a	re listed in Section 8.	
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	ns develop or persist.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.		
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Get medical attention if symptoms occur.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporar	y irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.		
General information	Ensure that medical personnel are aware of t protect themselves.	he material(s) involved, and ta	ke precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxi	de (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wor	n in case of fire.
Fire fighting	Move containers from fire area if you can do	so without risk.	

3. I lie-lighting ineasures	
Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

General life nazarus	No unusual life of explosion nazards noted.			
6. Accidental release mea	sures			
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.			
Methods and materials for containment and cleaning up	Use water spray to reduce vapors or divert vapor cloud drift. This product is miscible in water.			
containing ap	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.			
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.			
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.			

# **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling Observe good industrial hygiene practices.

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the Conditions for safe storage, SDS). including any incompatibilities

# 8. Exposure controls/personal protection

Occupational exposure limits

SILVER FERN CHEMICAL INC SDS Material name: Castor Oil Ethoxylate - 5 Mol SDS US 2/7 Revision date: 01-03-2019

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)				
Residuals	Туре	Value		
Ethylene Oxide (CAS 75-21-8)	STEL	5 ppm		
	TWA	1 ppm		
US. ACGIH Threshold Limit Values				
Residuals	Туре	Value		
Ethylene Oxide (CAS 75-21-8)	TWA	1 ppm		
US. NIOSH: Pocket Guide to Chemical I	Hazards			
Residuals	Туре	Value		
Ethylene Oxide (CAS 75-21-8)	Ceiling	9 mg/m3		
		5 ppm		
	TWA	0.18 mg/m3		
		0.1 ppm		

#### **Biological limit values**

AC	GIH	<b>Biological</b>	<b>Exposure Indice</b>	S
_		_		

Residuals	Value	Determinant	Specimen	Sampling Time	
Ethylene Oxide (CAS 75-21-8)	5 μg/g	S-(2-hydroxyet hyl) mercapturic acid (HEMA)	Creatinine in urine	*	
	5000 pmol/g	N-(2-hydroxyet hyl)-valine (HEV) hemoglobin adducts	Hemoglobin adducts	*	

<sup>\* -</sup> For sampling details, please see the source document.

Appropriate engineering controls

It is recommended that users of this product perform a risk assessment to determine the

appropriate PPE.

Individual protection measures, such as personal protective equipment

Wear chemical goggles. Avoid contact with eyes. Provide an emergency eye wash fountain and Eye/face protection

quick drench shower in the immediate work area.

Skin protection

Wear appropriate chemical resistant gloves. **Hand protection** 

Wear suitable protective clothing. Other

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

Material name: Castor Oil Ethoxylate - 5 Mol SDS US 3/7 Revision date: 01-03-2019

**Appearance** Clear to hazy.

Liquid. Physical state **Form** Liquid. Color Amber. Odor Mild.

**Odor threshold** Not available.

pН 5 - 7 (5% in DI Water)

Melting point/freezing point 20 °F (-6.67 °C) Initial boiling point and boiling > 500 °F (> 260 °C)

range

> 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Not available. Flammability limit - lower

Flammability limit - upper

Not available.

(%)

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%)

< 1 mm Hg @ 20°C Vapor pressure

Vapor density > 1

Not available. Relative density

Solubility(ies)

Dispersible Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

**Explosive properties** Not explosive. Not oxidizing. Oxidizing properties 0.985 @ 20°C Specific gravity

#### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with Conditions to avoid

incompatible materials.

Incompatible materials Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates).

Aluminum. Inorganic acids and bases.

Hazardous decomposition

products

Carbon oxides. Organic compounds which may be toxic.

#### 11. Toxicological information

Information on likely routes of exposure

Material name: Castor Oil Ethoxylate - 5 Mol SDS US 4/7 Revision date: 01-03-2019

Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eye contact

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Not known. **Acute toxicity** 

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylene Oxide (CAS 75-21-8) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Ethylene Oxide (CAS 75-21-8) Cancer

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Ethylene Oxide (CAS 75-21-8) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Residuals Species **Test Results** 

Ethylene Oxide (CAS 75-21-8)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 73 - 96 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Material name: Castor Oil Ethoxylate - 5 Mol SDS US 5/7 Revision date: 01-03-2019

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

#### 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control

Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Ethylene Oxide (CAS 75-21-8) Listed.

SARA 304 Emergency release notification

ETHYLENE OXIDE (CAS 75-21-8) 10 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Ethylene Oxide (CAS 75-21-8) Cancer

Reproductive toxicity

Mutagenicity

Central nervous system Skin sensitization Skin irritation Eye irritation

respiratory tract irritation

Acute toxicity Flammability

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)	
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Ethylene Oxide 75-21-8 10 1000

SARA 311/312 Hazardous

chemical

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SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Ethylene Oxide	75-21-8	0.001	

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethylene Oxide (CAS 75-21-8)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Ethylene Oxide (CAS 75-21-8)

**Safe Drinking Water Act** (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethylene Oxide (CAS 75-21-8)

Other Flavoring Substances with OSHA PEL's

#### **US** state regulations

#### California Proposition 65



WARNING: This product can expose you to Ethylene Oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go

to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethylene Oxide (CAS 75-21-8) Listed: July 1, 1987

#### California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene Oxide (CAS 75-21-8) Listed: August 7, 2009

### California Proposition 65 - CRT: Listed date/Female reproductive toxin

Listed: February 27, 1987 Ethylene Oxide (CAS 75-21-8)

#### California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene Oxide (CAS 75-21-8) Listed: August 7, 2009

#### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Ethylene Oxide (CAS 75-21-8)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
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Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

# 16. Other information, including date of preparation or last revision

SILVER FERN CHEMICAL INC SDS Revision date: 01-03-2019 Approved - TL 2-7-22

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

 Issue date
 06-02-2014

 Revision date
 01-03-2019

Version # 02

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

**Disclaimer** 

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

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