

Safety Data Sheet dated 2/27/2020, version

1. IDENTIFICATION

Product identifier

Mixture identification:

Identification of the substance:

Trade name: FERNOL 900

Chemical description: Ethoxylated fatty alcohols

Recommended use of the chemical and restrictions on use

Recommended use: Industrial uses.

Restrictions on use: Not known

Details of the supplier of the safety data sheet

Silver Fern Chemical, Inc.

2226 Queen Anne Avenue North Seattle WA 98109, USA

Phone: 1-866-282-3384

Email: info@silverfernchemical.com

24 Hour Emergency Contact

Infotrac 1-800-535-5053

Outside USA & Canada 1-352-323-3500

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Following GHS and within the meaning of 29 CFR 1910.1200 (OSHA)



Warning, Acute Tox. 4, Harmful if swallowed.



Danger, Eye Dam. 1, Causes serious eye damage.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H302 Harmful if swallowed.

H318 Causes serious eye damage.



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Precautionary statements:

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Immediately call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Ingredient(s) with unknown acute toxicity:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Identification of the substance:

Chemical description: Ethoxylated fatty alcohol.

Index number: Not available

CAS: Trade Secret

EC: Not applicable

Mixtures

N.A.

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Seek immediately medical advice.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed

SILVER FERN CHEMICAL INC.

SAFETY DATA SHEET

FERNOL 900

Page 2 of 10



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In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Unsuitable extinguishing media:

Not known.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: N.D.

Oxidizing properties: N.D.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Do not use empty container before they have been cleaned.

Before making transfer operations, assure that there are not any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

SILVER FERN CHEMICAL INC.

SAFETY DATA SHEET

FERNOL 900

Page 3 of 10



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Incompatible materials:
Strong oxidizers
Instructions as regards storage premises:
Adequate ventilation in working area.
Storage temperature:
Store at ambient temperature.
Packaging suggested:
Plastic drums.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
No occupational exposure limit available
Appropriate engineering controls:
None
Individual protection measures
Eye protection:
Use close fitting safety glasses (ANSI Z87.1 or approved equivalent); don't use eye lens.
Protection for skin:
Use clothing that provides comprehensive protection to the skin. Select approved equipment and suitable material
Protection for hands:
Chemical impervious gloves. When prolonged or frequently repeated contact may occur, a glove is recommended to prevent contact.
Respiratory protection:
Use adequate protective respiratory equipment. Select NIOSH/MSHA approved equipment.
Thermal Hazards:
None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Liquid
Odour: Slight
Odour threshold: N.D.
pH: 5.0 - 7.0
Melting point / freezing point: N.D.
Initial boiling point and boiling range: >100C (>212F)
Solid/gas flammability: N.D.
Upper/lower flammability or explosive limits: N.D.
Vapour density: N.D.
Flash point: >100C (>212F)
Evaporation rate: N.D.
Vapour pressure: N.D.
Relative density: N.D.
Solubility in water: Soluble
Solubility in oil: N.D.
Partition coefficient (n-octanol/water): N.D.



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Auto-ignition temperature: N.D.
Decomposition temperature: N.D.
Viscosity: N.D.
Miscibility: N.D.
Fat Solubility: N.D.
Conductivity: N.D.
Substance Groups relevant properties N.D.

10. STABILITY AND REACTIVITY

Reactivity
Stable under normal conditions
Chemical stability
Stable under normal conditions
Possibility of hazardous reactions
Stable under normal conditions
Conditions to avoid
Stable under normal conditions.
Incompatible materials
Strong oxidizers
Hazardous decomposition products
Not known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Toxicological information of the substance:
a) acute toxicity:
LD50 Oral Rat = 1200 mg/kg - source: Literature data.
LD50 Skin Rat = 2000 mg/kg - source: By analogy to product with similar composition.
b) skin corrosion/irritation:
Irritation Skin Rabbit : May cause slight irritation. - source: By analogy to product with similar composition.
c) serious eye damage/irritation:
Irritation Eye Rabbit : Highly irritating. - source: By analogy to product with similar composition.
d) respiratory or skin sensitisation:
Sensitization Skin Guinea pig : Not sensitizing. - source: By analogy to product with similar composition.
e) germ cell mutagenicity:
Mutagenesis Bacteria : Not mutagenic. - source: By analogy to product with similar composition.
i) STOT-repeated exposure:
NOAEL Oral Rat > 500 mg/kg - Duration: 90 days - source: By analogy to product with similar composition.
Toxicological information of the substance:
a) acute toxicity



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The product is classified: Acute Tox. 4 H302
Toxicity Oral Rat LD50 >300 - <2000 mg/kg - source: By analogy to product with similar composition.

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

Irritation Skin : Repeated and prolonged contacts may cause slight irritation.

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

Irritation Eye : Causes serious eye damage.

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Substance(s) listed on the NTP report on Carcinogens:

No.

Substance(s) listed on the IARC Monographs:

None.

Substance(s) listed as OSHA Carcinogen(s):

No.

Substance(s) listed as NIOSH Carcinogen(s):

No.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecological information of the substance:

a) Aquatic acute toxicity:

EC50 Algae = 1-10 mg/L - Notes: By analogy to product with similar composition.

EC50 Daphnia = 1-10 mg/L - Notes: By analogy to product with similar composition.

SILVER FERN CHEMICAL INC.

SAFETY DATA SHEET

FERNOL 900

Page 6 of 10



SILVER FERN
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<p>LC50 Fish = 1-10 mg/L - Notes: By analogy to product with similar composition.</p> <p>Persistence and degradability Ecological information of the substance: Biodegradability: Readily biodegradable. - Test: OECD 301 D : 88% - Notes: By analogy to product with similar composition.</p> <p>Bioaccumulative potential Ecological information of the substance: Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentration factor 12.7 - Notes: By analogy to product with similar composition.</p> <p>Mobility in soil Ecological information of the substance: Mobility in soil: Data not available</p> <p>Other adverse effects None Use according to criteria of good industrial practice, avoiding product dispersion in the environment.</p>
<p>13. DISPOSAL CONSIDERATIONS</p> <p>Waste treatment and disposal methods If possible recover the product, otherwise dispose of in authorized landfill or incineration in accordance with local regulation.</p>
<p>14. TRANSPORT INFORMATION</p> <p>14.1. UN number N.A.</p> <p>14.2. UN proper shipping name Proper Shipping Name: N.A.</p> <p>14.3. Transport hazard class(es) US DOT: Not Regulated Road (ADR): Not Regulated Air (ICAO/IATA): Not Regulated Sea (IMO/IMDG): Not Regulated</p> <p>14.4. Packing group ADR-Packing Group: N.A. IATA-Packing group: N.A. IMDG-Packing group: N.A.</p> <p>14.5. Environmental hazards N.A.</p> <p>14.6. Special precautions for user N.A.</p> <p>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N.A.</p>
<p>15. REGULATORY INFORMATION</p> <p>USA - Federal regulations</p>



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TSCA - Toxic Substances Control Act

This substance is listed on the TSCA inventory.

TSCA listed substances:

Ethoxylated fatty alcohol is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances: No.

Section 304 - Hazardous substances: No.

Section 313 - Toxic chemical list: No.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

No substances listed.

CAA - Clean Air Act

CAA listed substances:

None.

CWA - Clean Water Act

CWA listed substances:

None.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

⚠ WARNING: This product can expose you to chemicals including Ethylene oxide (< 1 ppm) and 1,4-Dioxane (< 10 ppm), which are known to the State of California to cause cancer, and Ethylene oxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

This product may contain traces of Ethylene oxide (< 1 ppm) and 1,4 Dioxane (< 10 ppm).

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

This product may contain traces of Ethylene oxide (< 1 ppm) and 1,4 Dioxane (< 10 ppm).

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

This product may contain traces of Ethylene oxide (< 1 ppm) and 1,4 Dioxane (< 10 ppm).

Regulatory information USA:

HMIS INFORMATION		HAZARD INDEX: 4 = SEVERE
HEALTH	3	3 = SERIOUS
FLAMMABILITY	1	2 = MODERATE
REACTIVITY	1	1 = SLIGHT
PERSONAL PROT.	D	0 = MINIMAL

D* Face shield, gloves, chemical apron

*: Chronic effects - See Section 11.



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Sara Title III Section 311/312:

Immediate (acute) health effects.

State regulations:

Canadian regulation :All the ingredients as such or as chemical group are registered in DSL.

Canadian WHMIS:

D2B (toxic material)

16. OTHER INFORMATION

N.A.:Not Applicable

N.D.:No Data available

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Disclaimer:

The product must be stored, handled and used according to criteria of good industrial practice and to regulations in force. This leaflet is offered for your consideration and guidance only. This leaflet complements the Technical Data Sheet but does not replace it. The information herein contained is given to the best of our knowledge at the time of issue.

Due to the several ways in which the product may be used and the possible interaction with variables not depending on or unknown to the supplier, we also cannot accept any liability whatsoever for any loss or damage however arising from the handling and use of our products.

N.A.=Not

Applicable

N.D.=No Data
available

ADR: European Agreement concerning the International Carriage of
Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical
Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of
Chemicals.

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport
Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

SILVER FERN CHEMICAL INC.

SAFETY DATA SHEET

FERNOL 900

Page 9 of 10



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	(ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average

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 damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, 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.

End of Safety Data Sheet

Approved – TL 3-3-23