



Silver Fern Chemical, Inc.  
Safety Data Sheet  
Sodium Lauryl Ether Sulfate 2EO 70

Revision Date: 06/10/2024

**Section 1. Identification**

**1.1. Product identifier**

**Product Identity** Sodium Lauryl Ether Sulfate 2EO 70  
**Alternate Names** SLES 2EO

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Intended use** Surfactant

**1.3. Details of the supplier of the safety data sheet**

**Company Name** Silver Fern Chemical, Inc.  
2226 Queen Anne Avenue North  
Seattle, WA 98109 USA  
Customer Service: 1-866-282-3384 /  
info@silverfernchemical.com  
Website - www.silverfernchemical.com

**Emergency  
24 hour Emergency  
Telephone No.** Emergency telephone number  
Infotrac: 1-800-535-5053; Outside USA & Canada +1-  
352-323-3500

**Customer Service:**

**Section 2. Hazard(s) identification**

**2.1. Classification of the substance or mixture**

Skin Irrit. 2;H315	Causes skin irritation.
Eye Dam. 1;H318	Causes serious eye damage.
Aquatic Acute 3;H402	Harmful to aquatic life.
Aquatic Chronic 3;H412	Harmful to aquatic life with long lasting effects.

**2.2. Label elements**



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**Danger**

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

**[Prevention]**

P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, eye protection, and face protection.

**[Response]**

P302+352 IF ON SKIN: Wash with plenty of soap and water.  
P310 IF IN EYES: Immediately call a POISON CENTER, doctor or physician.  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+313 If skin irritation occurs: Get medical attention.  
P362+364 Take off contaminated clothing and wash it before reuse.

**[Storage]**

No GHS storage statements

**[Disposal]**

P501 Dispose of contents or container in accordance with local and national regulations.

**Section 3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.



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Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS Number: 68891-38-3	68.00 ~ 72.00%	Eye Dam. 1; : C ≥ 10 % Eye Irrit. 2; : 5 % ≤ C < 10 % Aquatic Chronic 3;H412 Skin Irrit. 2;H315	----
Sodium Sulfate CAS Number: 7757-82-6	0.00 ~ 1.50%	Not Classified	----
Alcohols, C12-14, ethoxylated CAS Number: 68439-50-9	0.00 ~ 1.50%	Aquatic Acute 1;H400 Aquatic Chronic 2;H411	----
Water CAS Number: 7732-18-5	25.00 ~ 32.00%	Not Classified	----

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.  
\*PBT/vPvB - PBT-substance or vPvB-substance.  
The full texts of the phrases are shown in Section 16.

## Section 4. First aid measures

### 4.1. Description of first aid measures

- General** In all cases of doubt, or when symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.
- Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Eyes** Rinse with plenty of clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
- Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
- Ingestion** If the person has inadvertently swallowed some of the material and they are conscious, try to induce vomiting. Never make an unconscious person vomit. Obtain medical attention immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

**Overview** No specific symptom data available.  
Treat symptomatically. Check section 2.2 (GHS Label Elements) for further details.



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**Eyes** Causes serious eye damage.  
**Skin** Causes skin irritation.

## Section 5. Fire-fighting measures

### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.  
Unsuitable extinguishing media: Do not use; water jet.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

### 5.3. Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

ERG Guide No.

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## Section 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).  
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

### 6.3. Methods and material for containment and cleaning up

Notification to central government, local government. When emissions at least of the standard amount.

Dispose of waste in accordance with local regulation.



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Appropriate container for disposal of spilled material collected.  
Small leak: sand or other non- combustible material, please let use absorption.  
Wipe off the solvent.  
Dike for later disposal.

**Section 7. Handling and storage**

**7.1. Precautions for safe handling**

Use material after mixing enough and check pH value if stored for over 3 months or at high temperature condition.  
Use material after melting evenly, in case material is frozen in winter.  
Do not open drums when melting material.  
When melting material, proceed within 48 hours at no higher than 50 derees.  
Avoid direct contact of a heater with drums or materials when melting material.

**7.2. Conditions for safe storage, including any incompatibilities**

Store and handle in accordance with all current regulations.  
Store in cool place. Keep containers dry and well- ventilated place.  
Minimize temperature change. Optical storage temperature is 15 ~ 30°C.  
Keep material separated from incompatible substances.

**7.3. Specific end use(s)**

No available information

**Section 8. Exposure controls / personal protection**

**8.1. Control parameters**

**Exposure**

CAS No.	Ingredient	Source	Value
7757-82-6	Sodium Sulfate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
68439-50-9	Alcohols, C12-14, ethoxylated	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit



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## 8.2. Exposure controls

<b>Respiratory</b>	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
<b>Eyes</b>	Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.
<b>Skin</b>	Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.
<b>Engineering Controls</b>	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
<b>Other Work Practices</b>	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details.

## Section 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Pourable Gelled Liquid
<b>Odor</b>	No available information
<b>Odor threshold</b>	No available information
<b>pH</b>	7.0- 9.0 (5% soln., 25°C)
<b>Melting point / freezing point</b>	No available information
<b>Initial boiling point and boiling range</b>	No available information
<b>Flash Point</b>	No available information
<b>Evaporation rate (Ether = 1)</b>	No available information
<b>Flammability (solid, gas)</b>	Burning time (s) : >2400 (EU method A10, reference ; Spilker (2009))
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> No available information <b>Upper Explosive Limit:</b> No available information
<b>Vapor pressure (Pa)</b>	No available information



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Vapor Density	No available information
Relative Density	No available information
Solubility in Water	No available information
Partition coefficient n-octanol/water (Log Kow)	No available information
Auto-ignition temperature	No available information
Decomposition temperature	No available information
Viscosity (cSt)	No available information
VOC Content	
Oxidising properties	No available information
Explosive properties	No available information
Molecular Weight	384

### 9.2. Other information

No other relevant information.

## Section 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

Hazardous Polymerization will not occur.

### 10.4. Conditions to avoid

Avoid high temperatures and contact with incompatible material

Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

### 10.5. Incompatible materials

Strong reducing agents.

### 10.6. Hazardous decomposition products

May emit flammable vapour if involved in fire.

## Section 11. Toxicological information

### Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).



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Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Alcohols, C12-14, ethoxylated, sulfates, sodium salts - (68891-38-3)	>2,000.00, Rat - Category: 5	>2,000.00, Rat - Category: 5	No data available.	No data available.	No data available.
Sodium Sulfate - (7757-82-6)	> 2,000.00, Rat - Category: NA	No data available.	> 2.40, Rat - Category: NA	No data available.	No data available.
Alcohols, C12-14, ethoxylated - (68439-50-9)	>2,000.00, Rat - Category: 5	>2,000.00, Rat - Category: 5	No data available.	No data available.	No data available.

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
7757-82-6	Sodium Sulfate	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
68439-50-9	Alcohols, C12-14, ethoxylated	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable





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**Section 12. Ecological information**

**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

**Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Alcohols, C12-14, ethoxylated, sulfates, sodium salts - (68891-38-3)	7.10, Danio rerio	7.40, Daphnia magna	27.70, Desmodesmus subspicatus
Sodium Sulfate - (7757-82-6)	7,960.00, Pimephales promelas	1,766.00, Daphnia magna	No data available.
Alcohols, C12-14, ethoxylated - (68439-50-9)	1.20, Danio rerio	0.53, Daphnia magna	0.78, Desmodesmus subspicatus

**12.2. Persistence and degradability**

There is no data available on the preparation itself.

**12.3. Bioaccumulative potential**

No available information

**12.4. Mobility in soil**

No available information

**12.5. Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No available information

**Section 13. Disposal considerations**

**13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.

**Section 14. Transport information**



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	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable

**14.5. Environmental hazards**

Marine Pollutant: No;

**14.6. Special precautions for user**

No available information

**Section 15. Regulatory information**

**Regulatory Overview**      The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Inventory - United States - Section 8(b) Inventory (TSCA):**

Alcohols, C12-14, ethoxylated    (EPA TSCA Regulatory Flag:XU Commercial Status Designation: ACTIVE UVCB Flag: UVCB)

Alcohols, C12-14, ethoxylated, sulfates, sodium salts    (EPA TSCA Regulatory Flag:XU UVCB Flag: UVCB)

Sodium Sulfate    ( Commercial Status Designation: ACTIVE)

Water    ( Commercial Status Designation: ACTIVE)

- Active - indicates commercial status designation of active
- E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.
- F - indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.



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- P - indicates a commenced Premanufacture Notice (PMN) substance.
- R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S - indicates a substance that is identified in a final Significant New Uses Rule.
- SP - indicates a substance that is identified in a proposed Significant New Uses Rule.
- T - indicates a substance that is the subject of a final Section 4 test rule under TSCA.
- UVCB Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials
- XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
- Y1 - indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984 polymer exemption rule.
- Y2 - indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**Mass RTK Substances (>1%) :**

Sodium Sulfate



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**New Jersey RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%):**

Sodium Sulfate

**OSHA Process Safety Management Standard Highly Hazardous Chemicals, Toxics and Reactives:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA List of Regulated Substances under the Risk Management Plan (RMP) Program:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA List II or Essential Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA - Exempt Chemical Mixtures - List 1 and 2:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US DHS Chemical Facility Anti-Terrorism Standards (CFATS):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Section 16. Other information**

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**DISCLAIMER OF RESPONSIBILITY**

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express 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.

The full text of the phrases appearing in section 3 is:

H315 Causes skin irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**End of Document**