



Silver Fern Chemical, Inc.  
Safety Data Sheet  
Epoxidized Soybean Oil

Revision Date: 05/30/2025

**Section 1. Identification**

**Product Identity**

Epoxidized Soybean Oil

**Other means of identification**

Not Applicable

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

See Technical Data Sheet.

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

**Company Name**

Silver Fern Chemical, Inc.  
121 W. De La Guerra Street, Suite B  
Santa Barbara, CA 93101 USA  
Customer Service: 1-866-282-3384 /  
info@silverfernchemical.com  
Website - www.silverfernchemical.com

**24 hour Emergency  
Telephone No.**

Emergency telephone number  
Infotrac: 1-800-535-5053  
Outside USA & Canada +1-352-323-3500

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

**Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)**

The substance is not classified according to the OSHA Hazcom or WHMIS regulations.

**Label elements**

The substance is not classified according to the OSHA Hazcom or WHMIS regulations.



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**[Prevention]**

No GHS prevention statements

**[Response]**

No GHS response statements

**[Storage]**

No GHS storage statements

**[Disposal]**

No GHS disposal statements

**Other hazards**

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

Does not contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per US or Canadian regulations.

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

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

| Ingredient/Chemical Designations                                                   | Weight % | GHS Classification | Notes             |
|------------------------------------------------------------------------------------|----------|--------------------|-------------------|
| Epoxidised soya oil<br>CAS Number: 8013-07-8<br>Synonyms: No available information | 100      | Not Classified     | No data available |

The actual concentration or concentration range is withheld as a trade secret.

\*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.

**Section 4. First aid measures**

**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.



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**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 swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed**

**Overview** No specific symptom data available.  
No chronic toxicity or long term toxicity information available. Treat symptomatically.

|                                                 |
|-------------------------------------------------|
| <p><b>Section 5. Fire-fighting measures</b></p> |
|-------------------------------------------------|

**Extinguishing media**

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

**Special hazards arising from the substance or mixture**

Hazardous decomposition: No hazardous decomposition data available.

**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

### 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.

### Environmental precautions

Do not allow spills to enter drains or waterways.

### Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.  
Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

## Section 7. Handling and storage

### Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

### Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information

### Specific end use(s)

No available information



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

**Control parameters**

**Exposure Limits**

| CAS No.   | Ingredient          | Source | Value                |
|-----------|---------------------|--------|----------------------|
| 8013-07-8 | Epoxidised soya oil | OSHA   | No Established Limit |
|           |                     | ACGIH  | No Established Limit |
|           |                     | NIOSH  | No Established Limit |

**Exposure controls**

**Respiratory** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**Eyes** Protective safety glasses recommended

**Skin** Avoid skin contact. Protective gloves recommended.

**Engineering Controls** 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.

**Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.



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**Section 9. Physical and chemical properties**

**Information on basic physical and chemical properties**

|                                                        |                                                                                                                  |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Physical State</b>                                  | Liquid                                                                                                           |
| <b>Color</b>                                           | Yellow                                                                                                           |
| <b>Odor</b>                                            | vegetable oil odor                                                                                               |
| <b>Melting point / freezing point</b>                  | No available information                                                                                         |
| <b>Initial boiling point and boiling range</b>         | 200,83 °C @ 101,6 kPa                                                                                            |
| <b>Flammability (solid, gas)</b>                       | Not Applicable                                                                                                   |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> No available information<br><b>Upper Explosive Limit:</b> No available information |
| <b>Flash Point</b>                                     | 280°C                                                                                                            |
| <b>Auto-ignition temperature</b>                       | 300 °C                                                                                                           |
| <b>Decomposition temperature</b>                       | No available information                                                                                         |
| <b>pH</b>                                              | No available information                                                                                         |
| <b>Viscosity (cSt)</b>                                 | No available information                                                                                         |
| <b>Solubility in Water</b>                             | Insoluble in water                                                                                               |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | n-OCTANOL/WATER PARTITION COEFFICIENT                                                                            |
| <b>Vapor pressure (Pa)</b>                             | 0 kPa                                                                                                            |
| <b>Relative Density</b>                                | No available information                                                                                         |
| <b>Vapor Density</b>                                   | No available information                                                                                         |
| <b>Density</b>                                         | 0,990 @ 25°C                                                                                                     |
| <b>Evaporation rate (Ether = 1)</b>                    | No available information                                                                                         |
| <b>Oxidising properties</b>                            | No available information                                                                                         |
| <b>Explosive properties</b>                            | No available information                                                                                         |
| <b>Freezing Point</b>                                  | -2,15 °C                                                                                                         |
| <b>Relative Density</b>                                | 0,990 ( water @ 4°C=1)                                                                                           |

**Other information**

No other relevant information.



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## Section 10. Stability and reactivity

### Reactivity

Hazardous Polymerization will not occur.

### Chemical stability

Stable under normal circumstances.

### Possibility of hazardous reactions

No available information

### Conditions to avoid

Avoid high temperatures and contact with incompatible material

### Incompatible materials

No available information

### Hazardous decomposition products

No hazardous decomposition data available.

## 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).

| Ingredient                        | Oral LD50,<br>mg/kg           | Skin LD50,<br>mg/kg | Inhalation<br>Vapor LC50,<br>mg/L/4hr | Inhalation<br>Dust/Mist LC50,<br>mg/L/4hr | Inhalation<br>Gas LC50,<br>ppm |
|-----------------------------------|-------------------------------|---------------------|---------------------------------------|-------------------------------------------|--------------------------------|
| Epoxidised soya oil - (8013-07-8) | > 5,000.00, Rat - Category: 5 | No data available.  | No data available.                    | No data available.                        | No data available.             |

### Carcinogen Data

| CAS No.   | Ingredient          | Source | Value                                                 |
|-----------|---------------------|--------|-------------------------------------------------------|
| 8013-07-8 | Epoxidised soya oil | 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                                  |



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| Classification                | Category | Hazard Description |
|-------------------------------|----------|--------------------|
| Acute toxicity (oral)         | ---      | Not Applicable     |
| Acute toxicity (dermal)       | ---      | Not Applicable     |
| Acute toxicity (inhalation)   | ---      | Not Applicable     |
| Skin corrosion/irritation     | ---      | Not Applicable     |
| Serious eye damage/irritation | ---      | Not Applicable     |
| 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     |

**Possible routes of entry:**No available information

**Symptoms and effects, both acute and delayed:**

No specific symptom data available.

No chronic toxicity or long term toxicity information available. Treat symptomatically.

**Section 12. Ecological information**

**Toxicity**

No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

| Ingredient                        | 96 hr LC50 fish,<br>mg/L | 48 hr EC50 crustacea,<br>mg/L | ErC50 algae,<br>mg/L          |
|-----------------------------------|--------------------------|-------------------------------|-------------------------------|
| Epoxidised soya oil - (8013-07-8) | 900.00, Leuciscus idus   | No data available.            | 8.00, Desmodesmus subspicatus |

**Persistence and degradability**

There is no data available on the preparation itself.



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**Bioaccumulative potential**

No available information

**Mobility in soil**

No available information

**Results of PBT and vPvB assessment**

This product contains no PBT/vPvB/vPvM chemicals.

**Other adverse effects**

No available information

**Section 13. Disposal considerations**

**Waste treatment methods**

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

**Section 14. Transport information**

|                                   | <b>DOT (Domestic Surface Transportation)</b>                     | <b>IMO / IMDG (Ocean Transportation)</b>                         | <b>ICAO/IATA</b>                                                 |
|-----------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|
| <b>UN number</b>                  | Not Regulated                                                    | Not Regulated                                                    | Not Regulated                                                    |
| <b>UN proper shipping name</b>    | Not Regulated                                                    | Not Regulated                                                    | Not Regulated                                                    |
| <b>Transport hazard class(es)</b> | <b>Class:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable | <b>Class:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable | <b>Class:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable |
| <b>Packing group</b>              | Not Applicable                                                   | Not Applicable                                                   | Not Applicable                                                   |

**Environmental hazards**

IMDG Marine Pollutant: No;  
**Special precautions for user**

No available information



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## Section 15. Regulatory information

### Regulatory Overview

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

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

### Toxic Substance Control Act (TSCA)

| CAS Number   | Ingredient          | Toxic Substance Control Act (TSCA) | Comments | Status |
|--------------|---------------------|------------------------------------|----------|--------|
| 0008013-07-8 | Epoxidised soya oil | Yes                                | UVCB     | ACTIVE |

The following flags are used:

- 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.
- 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.



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**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%) :**

(No Product Ingredients Listed)

**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%) :**

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



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**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.

**EPCRA 311/312 Chemicals and RQs:**

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



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|                                      |
|--------------------------------------|
| <b>Section 16. Other information</b> |
|--------------------------------------|

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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:

Not Applicable

**End of Document**