



**Silver Fern Chemical, Inc.  
Safety Data Sheet  
Butyl Diglyme**

**Revision Date:  
23 July, 2026**

**Section 1. Identification**

**Product Identity** Butyl Diglyme

**Other means of identification** Diethylene glycol dibutyl ether; Bis(2-butoxyethyl) ether;  
2-Butoxyethyl ether

**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.  
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Santa Barbara, CA 93101 USA  
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Website - www.silverfernchemical.com

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

**Customer Service:** Customer Service: 1-866-282-3384

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

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

Acute toxicity(oral), category 4; H302  
Skin corrosion/irritation category 2; H315  
Causes serious eye irritation, category 2; H319

Harmful if swallowed.  
Causes skin irritation.  
Serious eye damage / eye  
irritation



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Specific target organ toxicity - single exposure, category 3;  
H335 (Respiratory system)

May cause respiratory  
irritation

**Label elements**



**WARNING**

H302 May be harmful if swallowed  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

**[Prevention]**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash hands thoroughly after handling.  
P264 Wash skin thoroughly after handling.

**[Response]**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

**[Storage]**

P405 Store locked up.

**[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 the US EPA PFASMASTER combined list of PFAS chemicals.



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### 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                |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Butyl Diglyme<br>CAS Number: 112-73-2<br>Synonyms: Diethylene glycol dibutyl ether;<br>Bis(2-butoxyethyl) ether; 2-Butoxyethyl<br>ether | ≥ 99%    | Acute toxicity(oral), category 4; H302<br>Serious eye damage / eye irritation, category 2;<br>H319<br>Skin corrosion/irritation category 2; H315<br>May cause respiratory irritation. category 3; H335 | No data<br>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.

**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** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11



## Section 5. Fire-fighting measures

### 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.

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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.  
Use personal protective equipment.  
Avoid breathing vapors, mist or gas.

### 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.

Keep in suitable, closed containers for disposal

## Section 7. Handling and storage

### Precautions for safe handling

Wear all appropriate personal protective equipment specified in Section 8.2. Do not get in eyes or on skin or clothing. Do not inhale mist or vapor. NO SMOKING. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Open containers slowly to control possible pressure release. Wash contaminated clothing and shoes thoroughly before reusing.

### Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated areas away from incompatible materials (see Section 10.5), food and drink. Transfer only to approved containers having correct labeling.

**Hygroscopic material!** Keep containers tightly closed when not in use to prevent moisture absorption. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers are hazardous when empty as they contain product residue. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Keep out of reach of children.

### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## Section 8. Exposure controls / personal protection

### Control parameters

### Exposure Limits



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| CAS No.  | Ingredient    | Source | Value                |
|----------|---------------|--------|----------------------|
| 112-73-2 | Butyl Diglyme | 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.

**Section 9. Physical and chemical properties**

**Information on basic physical and chemical properties**

|                                                     |                                                                                                    |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Physical State</b>                               | Liquid                                                                                             |
| <b>Color</b>                                        | Colorless                                                                                          |
| <b>Odor</b>                                         | No available information                                                                           |
| <b>Odor threshold</b>                               | No available information                                                                           |
| <b>Melting point / freezing point</b>               | Melting point/range: -60 °C - lit.                                                                 |
| <b>Initial boiling point and boiling range</b>      | 256 °C-lit.                                                                                        |
| <b>Flammability (solid, gas)</b>                    | Not Applicable                                                                                     |
| <b>Upper/lower flammability or explosive limits</b> | Lower Explosive Limit: No available information<br>Upper Explosive Limit: No available information |
| <b>Flash Point</b>                                  | 118 °C - closed cup                                                                                |
| <b>Auto-ignition temperature</b>                    | 250 °C ( 1.010 hPa )                                                                               |



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|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| <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>                             | 2.8 g/l at 20 °C         |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | 1.92 at 25 °C            |
| <b>Vapor pressure (Pa)</b>                             | < 0,01 hPa at 20 °C      |
| <b>Relative Density</b>                                | No available information |
| <b>Vapor Density</b>                                   | 7.54 - (Air = 1.0)       |
| <b>Evaporation rate (Ether = 1)</b>                    | No available information |
| <b>Oxidising properties</b>                            | No available information |
| <b>Explosive properties</b>                            | No available information |

**Other information**

No other relevant information.

**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**

Strong oxidizing agents, Strong acids

**Hazardous decomposition products**

Thermal decomposition products may include oxides of carbon..

**Section 11. Toxicological information**

**Acute toxicity**

Note: When no route specific LD50 data is available for an acute toxin, the converted



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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 |
|--------------------------|---------------------|---------------------|---------------------------------------|-------------------------------------------|--------------------------------|
| Butyl Diglyme (112-73-2) | No data available.  | No data available.  | No data available.                    | No data available.                        | No data available.             |

### Carcinogen Data

| CAS No.  | Ingredient    | Source | Value                     |
|----------|---------------|--------|---------------------------|
| 112-73-2 | Butyl Diglyme | OSHA   | Regulated Carcinogen: No; |
|          |               | NTP    | Known: No; Suspected: No; |
|          |               | IARC   | No                        |
|          |               | ACGIH  | No Established Limit      |

| Classification                | Category | Hazard Description               |
|-------------------------------|----------|----------------------------------|
| Acute toxicity (oral)         | 4        | Harmful if swallowed             |
| Acute toxicity (dermal)       | ---      | Not Applicable                   |
| Acute toxicity (inhalation)   | 3        | May cause respiratory irritation |
| Skin corrosion/irritation     | 2        | Causes skin irritation.          |
| Serious eye damage/irritation | 2        | Causes serious eye irritation.   |
| 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:

Inhalation, ingestion, skin contact, and skin absorption.

### 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



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### Toxicity

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

### Aquatic Ecotoxicity

| Ingredient               | 96 hr LC50 fish, mg/L | 48 hr EC50 crustacea, mg/L | ErC50 algae, mg/L  |
|--------------------------|-----------------------|----------------------------|--------------------|
| Butyl Diglyme (112-73-2) | No data available.    | No data available.         | No data available. |

### Persistence and degradability

There is no data available on the preparation itself.

### 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

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



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Packing group Not Applicable Not Applicable Not Applicable

Environmental hazards

IMDG Marine Pollutant: No;  
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.

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

**Toxic Substance Control Act (TSCA)**

Butyl Diglyme (CAS #112-73-2) is subject to TSCA 12(b) Export Notification.

**TSCA Section 5(a)(2) Significant New Use Rule (SNUR) for Existing Chemicals:**

Butyl Diglyme (CAS #112-73-2) is subject to a SNUR (EPA Significant New Use Rule) and cannot be imported or sold for use in any use in a consumer product except as a solvent in consumer inks, coatings and adhesives, and as a component in soldering compounds.

**Significant New Use Rule (SNUR; 40 CFR § 721.3550) :** Any use in a Consumer Product is a Significant New Use (40 CFR § 721.80(o)); Required protections in the workplace include personal protective equipment that provides barrier to skin exposure in the specific work area where it is selected for use is required to be provided and worn; impermeable gloves are required; protective equipment must provide impervious barrier for the expected conditions and duration of exposure (see 40 CFR § 721.63 (a)(1), (a)(2)(i), and (a)(3)).

| CAS Number   | Ingredient    | Toxic Substance Control Act (TSCA) | Comments | Status |
|--------------|---------------|------------------------------------|----------|--------|
| 0000112-73-2 | Butyl Diglyme | Yes                                | S        | 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



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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.

**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:**

Butyl Diglyme

**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.

**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%) :**



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

**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.

**CERCLA Chemicals and RQs:**

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

|                                      |
|--------------------------------------|
| <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.



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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:

H302 Harmful if swallowed

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation

**End of Document**