



**Silver Fern Chemical, Inc.**  
**Safety Data Sheet**  
**Epoxy Resin 828 100%**

**Revision Date: 05/30/2025**

**Section 1. Identification**

**Product identifier**

**Product Identity**

Epoxy Resin 828 100%

**Other means of identification**

Lapox AR-101

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

Epoxy resin useful for applications like coatings, laminates, composites and castings.

**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

**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**

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

Skin corrosion/irritation category 2;H315

Causes skin irritation.

Serious eye damage / eye irritation, category  
2A;H319

Causes serious eye irritation.

Skin sensitizer category 1;H317

May cause an allergic skin reaction.



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Aquatic toxicity (chronic), category 2;H411

Toxic to aquatic life with long lasting effects.

**Label elements**



**Warning**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

**[Prevention]**

P261 Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

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.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+313 If skin irritation or a rash occurs: Get medical advice or attention.

P337+313 If eye irritation persists: Get medical advice or attention.

P362+364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

**[Storage]**

No GHS storage statements

**[Disposal]**

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

**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.



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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             |
|--|----------|---|-------------------|
| Diglycidyl ether of bisphenol A<br>CAS Number: 25068-38-6<br>Synonyms: Epoxy Resin | 80 - 100 | Serious eye damage / eye irritation, category 2;H319: C ≥ 5 %<br>Skin corrosion/irritation category 2;H315: C ≥ 5 %<br>Skin sensitizer category 1;H317<br>Aquatic toxicity (chronic), category 2;H411 | 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.

**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. See section 2 for further details.



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**Eyes** Causes serious eye irritation.  
**Skin** May cause an allergic skin reaction. Causes skin irritation.

### **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: Carbon monoxide, carbon dioxide, aldehydes, and various compounds from incomplete combustion.  
Avoid breathing dust, fume, gas, mist, vapors, spray.

#### **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.  
At higher temperature vapors can cause pressure buildup in sealed containers. Use water to cool containers exposed to fire. Self-contained respirator equipment and full protective clothing required when smoke or fumes are generated. Electrical grounding not recommended.

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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



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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.

|   |
|---|
| <p><b>Section 7. Handling and storage</b></p> |
|---|

**Precautions for safe handling**

Handle containers carefully to prevent damage and spillage.  
See section 2 for further details. - [Prevention]

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

Incompatible materials: Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.  
See section 2 for further details. - [Storage]

**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                |
|------------|---------------------------------|--------|----------------------|
| 25068-38-6 | Diglycidyl ether of bisphenol A | 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** Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.
- Skin** 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.
- 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>   | Light Yellow   |
| <b>Odor</b>  | Characteristic   |
| <b>Melting point / freezing point</b>                  | -18 °C (-0.4 °F)   |
| <b>Initial boiling point and boiling range</b>         | 325 °C (617 °F)  |
| <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>                                     | 266 °C (510.8 °F)  |
| <b>Auto-ignition temperature</b>                       | Product is not selfigniting.   |
| <b>Decomposition temperature</b>                       | > 360 °C (> 680 °F)  |
| <b>pH</b>  | Neutral  |
| <b>Viscosity (cSt)</b>                                 | 25 °C (77 °F): 11000 - 15000 mPas (ASTM D 2196)  |
| <b>Solubility in Water</b>                             | soluble in water   |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Log Pow  |
| <b>Vapor pressure (Pa)</b>                             | 25 °C (77 °F): 0.000000046 Pa  |
| <b>Relative Density</b>                                | 20 °C (68 °F) 1.15 - 1.17  |
| <b>Vapor Density</b>                                   | No available information   |
| <b>Evaporation rate (Ether = 1)</b>                    | No available information   |
| <b>Oxidising properties</b>                            | No available information   |
| <b>Explosive properties</b>                            | Product does not present an explosion hazard.  |
| <b>Density</b>   | 20 °C (68 °F): 1.18 g/cm <sup>3</sup> (9.8471 lbs/gal)   |

### Other information

No other relevant information.



## Section 10. Stability and reactivity

### Reactivity

Hazardous polymerization may occur if product is not handled as per instructions.

### Chemical stability

This product requires another product to react at room temperature. Mix and use product in accordance with directions for safety. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.

### Possibility of hazardous reactions

No available information

### Conditions to avoid

Avoid high temperatures and contact with incompatible material

### Incompatible materials

Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.

### Hazardous decomposition products

Carbon monoxide, carbon dioxide, aldehydes, and various compounds from incomplete combustion.

## Section 11. Toxicological information

### Acute toxicity

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations this preparation may be an irritant and a skin and respiratory sensitizer. Low molecular weight epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the preparation and exposure to spray mist and vapor should be avoided.

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,<br>mg/kg               | Skin LD50,<br>mg/kg                 | Inhalation<br>Vapor LC50,<br>mg/L/4hr | Inhalation<br>Dust/Mist<br>LC50,<br>mg/L/4hr | Inhalation<br>Gas LC50,<br>ppm |
|---|-----------------------------------|-------------------------------------|---------------------------------------|--|--------------------------------|
| Diglycidyl ether of bisphenol A -<br>(25068-38-6) | > 5,000.00, Rat -<br>Category: NA | 20,000.00, Rabbit -<br>Category: NA | No data<br>available.                 | No data<br>available.                        | No data<br>available.          |

**Carcinogen Data**

| CAS No.    | Ingredient                      | Source | Value   |
|------------|---------------------------------|--------|---|
| 25068-38-6 | Diglycidyl ether of bisphenol A | 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 | 2A       | Causes serious eye irritation.       |
| Respiratory sensitization     | ---      | Not Applicable                       |
| Skin sensitization            | 1        | May cause an allergic skin reaction. |
| 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.

**Eyes** Causes serious eye irritation.

**Skin** May cause an allergic skin reaction. Causes skin irritation.



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## Section 12. Ecological information

### Toxicity

Toxic to aquatic life with long lasting effects.

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  |
|--|---------------------------|----------------------------|--------------------|
| Diglycidyl ether of bisphenol A - (25068-38-6) | 3.10, Pimephales promelas | 1.40, Daphnia magna        | 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.



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### Section 14. Transport information

Not regulated for packages under 5L (1.3 gallons) or 5.0 kg (11 lbs).

|                                   | <b>DOT (Domestic Surface Transportation)</b>   | <b>IMO / IMDG (Ocean Transportation)</b>                                     | <b>ICAO/IATA</b>   |
|-----------------------------------|--|--|--|
| <b>UN number</b>                  | UN3082   | UN3082   | UN3082   |
| <b>UN proper shipping name</b>    | UN3082, Environmentally hazardous substances, liquid, n.o.s. (Epoxy Resin 828, 100%), 9, III | Environmentally hazardous substances, liquid, n.o.s. (Epoxy Resin 828, 100%) | Environmentally hazardous substances, liquid, n.o.s. (Epoxy Resin 828, 100%) |
| <b>Transport hazard class(es)</b> | <b>Class:</b> 9<br><b>Sub Class:</b> Not Applicable  | <b>Class:</b> 9<br><b>Sub Class:</b> Not Applicable                          | <b>Class:</b> 9<br><b>Sub Class:</b> Not Applicable                          |
| <b>Packing group</b>              | III  | III  | III  |

#### Environmental hazards

IMDG Marine Pollutant: Yes; ( Diglycidyl ether of bisphenol A )

#### 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)



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**Toxic Substance Control Act (TSCA)**

| CAS Number   | Ingredient                      | Toxic Substance Control Act (TSCA) | Comments | Status |
|--------------|---------------------------------|------------------------------------|----------|--------|
| 0025068-38-6 | Diglycidyl ether of bisphenol A | Yes                                | XU       | 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.

**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.



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**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.

**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



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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.

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



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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

**End of Document**