

# SILVER FERN CHEMICAL



## Safety Data Sheet

### Epoxy Resin 828

#### SECTION 1: IDENTIFICATION

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**Product Name:** Epoxy Resin 828

**CAS Number:** 25068-38-6

**Chemical Name:** 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

**Synonyms:** diglycidyl ether of bisphenol A

**Uses:** Laboratory chemicals, Manufacture of substances

**Company**

Silver Fern Chemical, Inc.  
2226 Queen Anne Avenue North  
Suite #C  
Seattle WA 98109, USA

**Business Contact**

Customer Service: 1-866-282-3384  
[info@silverfernchemical.com](mailto:info@silverfernchemical.com)

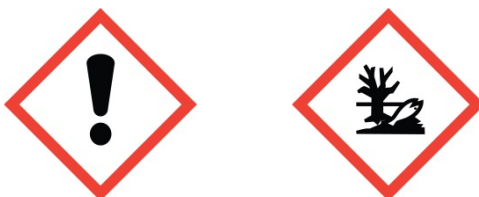
**24 Hour Emergency Contact**

Infotrac 800-535-5053  
Outside USA & Canada 352-323-3500

#### SECTION 2: HAZARD IDENTIFICATION

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##### Warning



H317: May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H314: Toxic to aquatic life with long lasting effects.

#### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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CAS #	Content (W/W)	Ingredients
25068-38-6	100%	bisphenol-A-(epichlorhydrin) and epoxy resin

## SECTION 4: FIRST AID MEASURES

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### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Remove contaminated clothing and discard. Consult a physician.

### In case of eye contact

Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Get medical attention immediately.

### If swallowed

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

## SECTION 5: FIRE FIGHTING MEASURES

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Flash Point	260°C / 500°F (Pensky-Martens closed cup, ASTM D 93)
Autoignition Temperature	not known
Flammable Limits	not known
Combustion Products	carbon monoxide, nitrogen oxides, aldehydes, organic acids and phenolic compounds
Firefighting Precautions	foam, dry chemical, CO <sub>2</sub> ; water may be ineffective; firefighters must wear SCBA
Static Charge Accumulation	may accumulate a static charge on agitation or pumping – flash point is too high for static discharge to cause ignition

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Personal precautions:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Further information:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

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**Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**Storage:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### Personal Protective Equipment (PPE)

**Respiratory protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

**Eye protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Body protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**General safety and hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Form: Viscous liquid Color: colorless
Odor	no data available
Odor Threshold	no data available
pH	no data available
Melting point/freezing Point	no data available
Initial boiling point and boiling range	no data available
Flash point	260°C / 500°F (Pensky-Martens closed cup, ASTM D 93)
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Flammability	Not classified as flammable but will burn if ignited
Density at 25°C	1.16 Kg/l
Vapor pressure at 160°C	2 Pa
Solubility	Readily soluble in various organic solvents, low solubility in water.
Partition coefficient	log Pow: 4

## SECTION 10: STABILITY AND REACTIVITY

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**Conditions to avoid:** Strong oxidizers

**Substances to avoid:** strong oxidising agents; amines: diethylenetriamine or triethylenetriamine

**Hazardous reactions:** strong acids or alkalis cause vigorous reaction & heating; Lewis acids (eg: boron trifluoride) or Lewis bases (N,N-dimethylbenzylamine) may cause polymerization & heating

**Decomposition products:** none apart from Hazardous Combustion Products

## SECTION 11: TOXICOLOGICAL INFORMATION

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### Acute toxicity

#### Toxicity

#### Acute toxicity

Oral LD50(rat) : > 2000 mg/kg

Dermal LD50(rabbit) : > 2000 mg/kg

#### Irritation

Skin : moderate

Eyes : moderate

Sensitization : Skin sensitizer in man

Other toxicological effects : In vitro mutagen, but mutagenic potential not seen in vivo.

### Chronic Exposure

#### General

prolonged exposure may cause dermatitis; skin rashes, muscle & joint disorders, respiratory disturbances

#### Sensitising

skin sensitizer; respiratory sensitisation has occurred but is rare

#### Carcinogen/Tumorigen

not considered a tumorigen or a carcinogen in humans or animals

#### Reproductive Effect

no known effect in humans or animals

#### Mutagen

no known effect on humans or animals

#### Synergistic With

not known

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## SECTION 12: ECOLOGICAL INFORMATION

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**Ecotoxicity** : Moderately toxic to aquatic animals, nontoxic to algae, insignificant toxicity to microorganisms.

**Persistence** : Not readily biodegradable. Moderate potential to bioaccumulate (log Pow in the range 3-5)

## SECTION 13: DISPOSAL CONSIDERATIONS

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**Waste disposal of substance:** do not flush to sewer, may be incinerated in approved facility with flue gas monitoring & scrubbing

**Container disposal:**

Drums should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.

Pails must be vented and thoroughly dried prior to crushing and recycling.

IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months.

Replace at 60 months (5yrs). Steel containers must be inspected, pressure tested, and recertified every 5 years.

## SECTION 14: TRANSPORT INFORMATION

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**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

## SECTION 15: REGULATORY INFORMATION

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**REACH No. :** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

No components are subject to the Pennsylvania Right to Know Act.

**New Jersey Right To Know Components**

No components are subject to the New Jersey Right to Know Act.

**California Prop. 65 Components**

Warning: This product contains a chemical known to the State of California to cause cancer. Oxirane, (phenoxyethyl)—122-60-1

## SECTION 16: OTHER INFORMATION

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### HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	1
Physical Hazard	0

### DISCLAIMER OF RESPONSIBILITY

The information on this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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