



# Safety Data Sheet

Date Revised: 2/19/2019

Supersedes: 2/15/2019

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name(s):** Five Star® DP Epoxy Grout - Nuclear/Component A Resin  
Five Star® DP Epoxy Grout High Flow - Nuclear/Component A Resin

**Synonyms:** Epoxy Resin, Component A

**Product Use:** For use with Five Star Epoxy Aggregate and Five Star Epoxy Hardener in nuclear safety application zones.

**Restrictions on Use:** To be used with specific Five Star® systems.

**Manufacturer/Supplier:** Five Star Products, Inc.  
60 Parrott Drive  
Shelton, CT 06484 USA

**Phone #:** 203-336-7900

**Emergency Phone #:** CHEM-TEL 1-800-255-3924  
(Outside the U.S. 1-813-248-0585)

## SECTION 2: HAZARD(S) IDENTIFICATION-GHS INFORMATION

**Classification:** Skin Irritation, Category 2  
Eye Irritation, Category 2A  
Skin sensitization, Category 1  
Acute aquatic toxicity, Category 2  
Chronic aquatic toxicity, Category 2

**Label Elements/Hazard Pictograms:**



**Signal Word:** Warning

**Hazard Statements:** Causes skin irritation, H315  
May cause an allergic skin reaction, H317  
Causes serious eye irritation, H319  
Toxic to aquatic life, H401  
Toxic to aquatic life with long lasting effects, H411



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## Precautionary Statements/Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray, P261  
Wash skin thoroughly after handling, P264  
Contaminated work clothing should not be allowed out of the workplace, P272  
Avoid release to the environment, P273  
Wear protective gloves/eye protection/face protection, P280

## Response:

If in eyes: Rinse cautiously with water for several minutes, P351.  
Remove contact lenses, if present and easy to do. Continue rinsing, P338, P305, P351 If eye irritation persists: Get medical attention/advice, P337, P313  
If on skin (or hair): Wash with plenty of soap and water, P302, P352  
If swallowed: Rinse mouth. Do NOT induce vomiting, P330, P331.  
If skin irritation or rash occurs, P333: Get medical advice/attention, P313.  
Take of contaminated clothing and wash before reuse, P362  
Collect spillate, P391  
Get medical advice/attention if you feel unwell, P314

## Storage:

Keep container tightly closed and in a dry well-ventilated space.

## Disposal:

Dispose of contents/container in accordance with applicable regional, national, and local laws and regulations.

## Hazards Not Otherwise Classified:

Not applicable

## Ingredients with Unknown Toxicity:

Not applicable

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	Common Name/Synonyms	CAS No.	% wt/wt
Bisphenol A Diglycidyl Ether Resin Mixture	n/a	25068-38-6	80-90
C8 and C10 Alkyl Glycidyl Ethers	n/a	68609-96-1	10-20

### SECTION 4: FIRST AID MEASURES

#### Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration.  
Consult a physician.



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<b>Eye Contact:</b>	If in eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.
<b>Skin Contact:</b>	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Immediately call a poison center or doctor if irritation develops. Wash contaminated clothing before reuse.
<b>Ingestion:</b>	If swallowed: Rinse mouth. Call POISON CENTER for most current information. Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.
<b>General Advice:</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible). First Aid responders should pay attention to self-protection and use recommended protective clothing (chemical resistant gloves, splash protection).
<b>Note to Physicians:</b>	Symptoms may not appear immediately. Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>Flammability and Explosion Information:</b>	Not available
<b>Sensitivity to Mechanical Impact:</b>	Not available
<b>MEANS OF EXTINCTION</b>	
<b>Suitable Extinguishing Media:</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable Extinguishing Media:</b>	Not available
<b>Protection of Firefighters:</b>	Wear self-contained breathing apparatus for fire-fighting if necessary.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures:</b>	Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. Eliminate all ignition sources.
<b>Personal Precautions:</b>	Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations.



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**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.

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

**Other Information:** See Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

**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/PERSONAL PROTECTION

### Exposure Guidelines

Component	CAS No.	ACGIH (TLV)	OSHA (PEL)
Bisphenol A Diglycidyl Ether Resin Mixture	25068-38-6	Not Established	Not Established
C8 and C10 Alkyl Glycidil Ethers	68609-96-1	Not Established	Not Established

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

**Engineering Controls:** Not normally required.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Eye/Face Protection:** Face shield and safety glasses. Use equipment for eye protection that meets the standards referenced for OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

**Hand Protection:** Wear protective gloves. Rubber or polyethylene material is recommended. Consult manufacturer specifications for further information.

**Skin and Body Protection:** Wear protective clothing. Clothing with full length sleeves and pants should be worn.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices. Provide readily accessible eye wash stations and safety showers. Wash at end of shift and before eating, smoking, or using the toilet. Remove contaminated clothing and laundry or discard.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



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<b>Appearance:</b>	Clear light amber liquid
<b>Color:</b>	Light amber
<b>Odor:</b>	Semi Sweet
<b>Odor Threshold:</b>	N/A
<b>Physical State:</b>	Liquid
<b>pH:</b>	Not available
<b>Melting Point / Freezing Point:</b>	Not available
<b>Initial Boiling Point:</b>	Not available
<b>Boiling Point:</b>	Not available
<b>Flash Point:</b>	93.4 °C, 200 °F Setaflash Closed Cup ASTM D 3828
<b>Evaporation Rate:</b>	N/A
<b>Flammability (solid, gas):</b>	N/A
<b>Lower Flammability Limit:</b>	N/A
<b>Upper Flammability Limit:</b>	N/A
<b>Vapor Pressure:</b>	1.33 mbar
<b>Vapor Density:</b>	1 [Air = 1]
<b>Relative Density:</b>	1.10
<b>Solubility:</b>	Slightly
<b>Partition Coefficient: n-Octanol/Water:</b>	N/A
<b>Auto-ignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Viscosity:</b>	1000 cps
<b>Percent Volatile, wt. %:</b>	0%
<b>VOC Content, wt. %:</b>	0%
<b>Density:</b>	N/A
<b>Coefficient of Water/Oil Distribution:</b>	N/A

## SECTION 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Hazardous decomposition byproducts:</b>	CO, CO <sub>2</sub> , smoke, toxic vapors
<b>Conditions to Avoid:</b>	Amine compounds under uncontrolled conditions.
<b>Incompatible Materials:</b>	Strong oxidizing agents.



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## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity:

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
Bisphenol A Diglycidyl Ether Resin Mixture	>5,000.00, Rat Category: N/A	20,000.00, Rabbit Category: N/A	No Data Available	No Data Available	No Data Available

### Primary Irritant Effect On the Skin:

Irritant to skin and mucous membranes.

### Primary Irritant Effect On the Eye:

Irritating effect.

### Swallowing:

Can cause abdominal irritation, nausea, vomiting, and diarrhea.

### Additional Toxicological Information:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA, or ACGIH as of this date, greater or equal to 0.1%

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity:

All work practices must be aimed at eliminating environmental contamination.

### Aquatic Toxicity:

This material is harmful to the environment.

### Persistence and Degradability:

The product is partially biodegradable. Significant residue remains.

### Bio-accumulative Potential:

Does not accumulate in organisms.

### Mobility in Soil:

No further relevant information available

### Ecotoxical Effects Remark:

Toxic for fish. Due to mechanical actions of the product damages may occur. The declared action may be partly caused by lack of oxygen.

### Additional Ecological Information:

No further relevant information available

### General Notes:

No further relevant information available

### PBT Assessment:

N/A



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**vPvB Assessment:** N/A

**Other Adverse Effects:** No further relevant information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

**Recommendation:** The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers and liners may retain some product residues. Vapor from some product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.

ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES.

**Uncleaned Packaging:** Empty containers may contain residue and may be dangerous. Do not attempt to refill or clean without proper instructions. Empty drums should be drained and stored safely for reconditioning or recycling.

**Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: TRANSPORT INFORMATION

### US DEPARTMENT of TRANSPORTATION (DOT)

**Proper Shipping Name:** NOT REGULATED

**Class:** NONE

**UN #:** NONE

**Packing Group:** NONE

### INTERNATIONAL AIR

**TRANSPORTATION Proper  
Shipping Name (ICAO/IATA):**

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS  
(BISPHENOL-A EPICHLORHYDRIN RESIN), 9, PG III

**Class:** 9



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**UN #:** 3082

**Packing Group:** III

**WATER TRANSPORTATION**  
**Proper Shipping Name**  
**(IMO/IMDG):** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS  
(BISPHENOL-A-EPOXY RESIN), 9, PG III

**Class:** 9  
**UN#:** 3082

**Packing Group:** III

**Marine Pollutant:** Bisphenol-A Epichlorhydrin Resin

## SECTION 15: REGULATORY INFORMATION

### CHEMICAL INVENTORIES

**US (TSCA):** The components of this product are in compliance with the chemical notification requirements of TSCA.

**CANADA (DSL):** The components of this product are in compliance with the chemical notification requirements of NSN Regulations under CEPA, 1999.

### FEDERAL REGULATIONS

**CANADA:** n/a

**WHMIS Classification:** n/a

**UNITED STATES:** This SDS has been prepared to meet the US OSHA Hazard Communication Standard, 29 CFR 1910.1200

**SARA Title III:** No components are listed.

### STATE REGULATIONS

**Massachusetts** US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

**New Jersey** US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

**Pennsylvania** US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

**California**  
**California Prop 65:** This product contains the following Proposition 65 chemicals:  
Chemical Name: Epichlorohydrin, CAS No. 106-89-8, CA Prop 65: Carcinogen, May contain trace amounts (<0.1%)

Chemical Name: Bisphenol A, CAS No. 80-05-7, CA Prop 65: Birth defects or other reproductive harm – female, contains <1%





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Chemical Name: Epichlorohydrin, CAS No. 106-89-8, CA Prop 65: Birth defects or other reproductive harm – male, contains <0.1%

## SECTION 16: OTHER INFORMATION

**HMIS (Hazardous Material Information System):**

Health	Flammability	Physical Hazard	Personal Protection
2	1	0	X, B

**Disclaimer:**

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