



Safety Data Sheet

Date Revised: 02/22/2019

Supersedes: 02/15/2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® HP Epoxy Grout Resin - Nuclear/Component A

Synonyms: Epoxy Resin, Component A

Product Use: For use with Five Star® Epoxy Aggregate and Five Star® HP 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: H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Caused serious eye irritation
H401 Toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements/Prevention: P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash skin 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/face protection

Response: P351 If in eyes: Rinse cautiously with water for several minutes.



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P338, P305, P351, P337, P313 Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.

P302, P352 If on skin (or hair): Wash with plenty of soap and water.

P330, P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P333, P313 If skin irritation or rash occurs. Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillate.

P314 Get medical advice/attention if you feel unwell.

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	Not Applicable	25068-38-6	80-90
C8 and C10 Alkyl Glycidyl Ethers	Not Applicable	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.

Eye Contact: 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.

Skin Contact: 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.

Ingestion: 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



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reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

General Advice:

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).

Note to Physicians:

Symptoms may not appear immediately. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability and Explosion Information: Not Available

Sensitivity to Mechanical Impact: Not Available

MEANS OF EXTINCTION

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: Not Available

Protection of Firefighters: Wear self-contained breathing apparatus for fire-fighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: 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.

Personal Precautions: 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.

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.



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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	OSHA
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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear light amber liquid.
Color:	Light amber.
Odor:	Semi Sweet
Odor Threshold:	Not Available
Physical State:	Liquid
pH:	Not Available
Melting Point / Freezing Point:	Not Available
Initial Boiling Point:	Not Available



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Boiling Point:	Not Available
Flash Point:	93.4 °C, 200 °F Setaflash Closed Cup ASTM D 3828
Evaporation Rate:	Not Available
Flammability (solid, gas):	Not Available
Lower Flammability Limit:	Not Available
Upper Flammability Limit:	Not Available
Vapor Pressure:	1.33 mbar
Vapor Density:	1 [Air = 1]
Relative Density:	1.10
Solubility:	Slightly
Partition Coefficient: n-Octanol/Water:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	1000 cps
Percent Volatile, wt. %:	0%
VOC Content, wt. %:	0%
Density:	1.10 g/cc
Coefficient of Water/Oil Distribution:	Not Available

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:	
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.



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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
Ecotoxicological 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:	Not Available
vPvB Assessment:	Not Available
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.



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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

CANADA Transportation of Dangerous Goods (TDG)

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

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



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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: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this Safety Data Sheet contains all the information required by the Controlled Products Regulations.

WHMIS Classification: Class D1B – Toxic material
Class D2B – Skin Sensitization

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 Las (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%

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 Rating:

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

Disclaimer: This information is furnished without warranty of any kind, expressed or implied. Five Star Products, Inc. bases the information and recommendations in this document on data believed to be current and accurate.