



# Safety Data Sheet

Date Revised: 4/16/2015

Supersedes:

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

**Synonyms:** Epoxy Resin, Component A

**Product Use:** For use with Five Star® Epoxy Aggregate and Five Star® HP Epoxy Hardener

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

**Manufacturer/Supplier:** Five Star Products, Inc.  
750 Commerce Drive  
Fairfield, CT 06825 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  
Caused serious eye irritation, H319  
Toxic to aquatic life with long lasting effects, H411

**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,



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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.

**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.



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**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	OSHA
Bisphenol A Diglycidyl Ether Resin Mixture	25068-38-6	n/a	n/a
C8 and C10 Alkyl Glycidil Ethers	68609-96-1	n/a	n/a

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.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
<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

**Chemical Stability:** Stable under normal conditions.

**Hazardous decomposition byproducts:** CO, CO<sub>2</sub>, smoke, toxic vapors

**Conditions to Avoid:** Amine compounds under uncontrolled conditions.



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**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.

**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:** N/A

**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



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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:** n/a

**UN #:** n/a

**Packing Group:** n/a

**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



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**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 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 does not contain chemicals known to the State of California to be Carcinogenic.

## SECTION 16: OTHER INFORMATION

**Disclaimer:** The information contained in this document applies to the specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for one's own particular use.





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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name(s):** **Five Star® MineForm™ Backer Grout/Component B**  
**Five Star® Epoxy Chock / Component B**  
**Five Star® Epoxy Chock EX / Component B**  
**Five Star® HP Epoxy Grout / Component B**

**Synonyms:** N/A

**Product Use:** Epoxy grouting of equipment

**Restrictions on Use:** To be used with MineForm™ Backer Grout/Component A  
To be used with Epoxy Chock / Component A  
To be used with Epoxy Chock EX / Component A  
To be used with HP Epoxy Grout / Component A

**Manufacturer/Supplier:** Five Star Products, Inc.  
750 Commerce Drive  
Fairfield, CT 06825 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:** Acute Toxicity – Oral Category 4  
Acute Toxicity – Dermal, Category 3  
Skin Corrosion, Category 1B  
Eye Damage, Category 1  
Sensitization – Respiratory, Category 1  
Sensitization – Skin, Category 1

**Label Elements/Hazard Pictograms:**



**Signal Word:** Danger

**Hazard Statements:** Harmful if swallowed H302.  
Toxic in contact with skin H311.  
Causes severe skin burns and eye damage H314.  
May cause respiratory irritation H335.  
May cause an allergic skin reaction H317.



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**Precautionary Statements/Prevention:**

Do not breathe dust, fume, gas, mist, vapors, or spray, P260.  
Wash thoroughly after handling, P264.  
Do not eat, drink or smoke when using this product, P270.  
Contaminated work clothing should not be allowed out of the workplace, P272.  
Wear protective gloves, protective clothing, eye protection and face protection, P280.  
Wear respiratory protection, P284.

**Response:**

If swallowed: Rinse mouth. Do NOT induce vomiting, P330, P331.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower, P361, P353.  
If inhaled: Remove person to fresh air and keep comfortable for breathing, P340.  
If in eyes: Rinse cautiously with water for several minutes, P351. Remove contact lenses, if present and easy to do. Continue rinsing, P338.  
Immediately call a poison center or doctor, P310.  
If skin irritation or rash occurs, P333: Get medical advice/attention, P313.  
If experiencing respiratory symptoms, P342: Call a poison center or doctor, P310. Wash contaminated clothing before reuse, P363.

**Storage:**

Store locked up.

**Disposal:**

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

**Hazards Not Otherwise Classified:**

N/A

**Ingredients with Unknown Toxicity:**

N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Hazardous Ingredient(s)	Common Name/Synonyms	CAS No.	% wt/wt
Aliphatic Amines	Not available	TS	80 - 95
Tertiary Amines	Not available	TS	5 - 20

**SECTION 4: FIRST AID MEASURES**

**Inhalation:**

If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If experiencing respiratory symptoms call poison center or doctor.



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<b>Eye Contact:</b>	If in eyes: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
<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. 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).
<b>Note to Physicians:</b>	Symptoms may not appear immediately.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>Flammability and Explosion Information:</b>	Not flammable or combustible by OSHA/WHMIS criteria
<b>Sensitivity to Mechanical Impact:</b>	This material is not sensitive to mechanical impact.
<b>Sensitivity to Static Discharge:</b>	This material is sensitive to static discharge at temperatures at or above the flash point.
<b>MEANS OF EXTINCTION</b>	
<b>Suitable Extinguishing Media:</b>	Small Fire: Dry chemical, CO <sub>2</sub> , or water spray. Large Fire: Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material.
<b>Unsuitable Extinguishing Media:</b>	N/A
<b>Product of Combustion:</b>	Carbon monoxide. Oxides of nitrogen.
<b>Protection of Firefighters:</b>	TOXIC; inhalation, ingestion or skin contact with material may cause severe injury or death. Contact with molten substance may cause severe burns to skin and eyes. Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.



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## SECTION 6: ACCIDENTAL RELEASE MEASURES

- Emergency Procedures:** As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 ft). Stay upwind. Keep out of low areas. Ventilate enclosed areas. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area).
- Personal Precautions:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.
- Environmental Precautions:** Prevent entry into waterway, sewers, basements, or confined areas.
- Methods for Containment:** Stop leak if you can do it without risk.
- Methods for Cleanup:** Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers.
- Other Information:** See Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

- Handling:** Do not swallow. Do not breathe mist, vapors, or spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Contaminated work clothing should not be allowed out of workplace. See Section 8 for information on Personal Protective Equipment.
- Storage:** Store locked up. Store away from incompatible materials. See Section 10 for information on incompatible materials. Keep out of reach of children.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Component	CAS No.	ACGIH	OSHA
Aliphatic Amines	TS	No TLV established.	No PEL established.
Tertiary Amines	TS	No TLV established.	No PEL established.

PEL: Permissible Exposure Limit      TLV: Threshold Limit Value.

**Engineering Controls:** Not normally required.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Eye/Face Protection:** Wear chemical safety goggles and full face shield. Ensure that eyewash stations and safety showers are close to the workstation location. Use equipment for eye protection that meets the standards referenced for OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.



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- 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.
- Respiratory Protection:** Wear respiratory protection. If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator with organic vapor cartridge, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.
- General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
<b>Appearance:</b>	Liquid
<b>Color:</b>	Straw Yellow
<b>Odor:</b>	Ammoniacal
<b>Odor Threshold:</b>	N/A
<b>Physical State:</b>	Liquid
<b>pH:</b>	N/A
<b>Melting Point / Freezing Point:</b>	Liquid
<b>Initial Boiling Point:</b>	> 100°C (212°F)
<b>Boiling Point:</b>	> 356°F (180°C)
<b>Flash Point:</b>	N/A
<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>	9.8 mm Hg
<b>Vapor Density:</b>	N/A
<b>Relative Density:</b>	1.00
<b>Solubility:</b>	N/A
<b>Partition Coefficient: n-Octanol/Water:</b>	N/A
<b>Auto-ignition Temperature:</b>	Can autoignite in air at approximately 676°F



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<b>Decomposition Temperature:</b>	N/A
<b>Viscosity:</b>	50 – 80 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
<b>Possibility of Hazardous Reactions:</b>	CO <sub>2</sub> , smoke, toxic vapors.
<b>Conditions to Avoid:</b>	Avoid peroxides and acids.
<b>Incompatible Materials:</b>	Epoxy resins under uncontrolled conditions.

## 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.

### Sensitization:

Sensitization possible through skin contact.  
Sensitizing effect through inhalation is possible by prolonged exposure.

### Additional Toxicological Information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

Danger through skin adsorption.

Toxic and/or corrosive effects may be delayed up to 24 hours.

### Sensitization:

Sensitization possible by inhalation and/or dermal contact.

### Repeated Dose Toxicity:

Repeated exposures may result in skin and/or respiratory sensitivity.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity:

### Aquatic Toxicity:

The material is harmful to the environment.

### Persistence and Degradability:

The product is partly biodegradable. Significant residuals remain.



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**Bio-accumulative Potential:** Does not accumulate in organisms.

**Mobility in Soil:** No further relevant information available.

**Ecotoxical Effects Remark:** Toxic for fish.

**Additional Ecological Information**

**General Notes:** This statement was deduced from products with a similar structure or composition. Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

**PBT Assessment:** PBT: Not applicable.

**vPvB Assessment:** vPvB: Not applicable.

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

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

**Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

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

## SECTION 14: TRANSPORT INFORMATION

**US DEPARTMENT of TRANSPORTATION (DOT) Proper Shipping Name:** UN2735, Amines, Liquid, Corrosive, NOS  
(Aliphatic/tertiary amines) 8, PG III

**Class:** 8

**UN #:** UN2735

**Packing Group:** III



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**CANADA Transportation of Dangerous Goods (TDG) Proper Shipping Name:**

UN2735, Amines, Liquid, Corrosive, NOS  
(Aliphatic/tertiary amines) 8, PG III

**Class:**

8

**UN #:**

UN2735

**Packing Group:**

III

## 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 the 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 the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS Classification:**

Class D1B - Toxic Material  
Class D2A - Respiratory sensitization  
Class D2B - Skin sensitization  
Class E - Corrosive Material

**UNITED STATES:**

This SDS had been prepared to meet the U.S. 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).

**Component:**

Aliphatic Amines

**CAS No.**

TS

**RTK List:**

Listed

**New Jersey**

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

**Component:**

Aliphatic Amines

**CAS No.**

TS

**RTK List:**

Listed

**Pennsylvania**

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





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**Component**  
Aliphatic Amines

**CAS No.**  
TS

**RTK List:**  
Listed

**California  
California Prop 65:**

This product does not contain chemicals known to the State of California to be Carcinogenic.

## SECTION 16: OTHER INFORMATION

**Disclaimer:**

The information contained in this document applies to the specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for one's own particular use.



# Safety Data Sheet

Date Revised: 5/21/2015

Supersedes: 11/20/2014

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name(s):** Five Star® DP Epoxy Grout / Component C Aggregate  
Five Star® DP Epoxy Grout PG / Component C Aggregate  
Five Star® DP Epoxy Grout High Flow / Component C Aggregate  
Five Star® Elastomeric Grout / Component C Aggregate  
Five Star® Epoxy Grout N / Component C Aggregate  
Five Star® Epoxy Grout Red N / Component C Aggregate  
Five Star® Epoxy Novolac Grout / Component C Aggregate  
Five Star Novolac Structural Concrete®/Component C Aggregate  
Five Star® Pile Jacket Epoxy Grout HP/Component C Aggregate  
Five Star® HP Epoxy Grout / Component C Aggregate  
Five Star® Rapid Epoxy Grout /Component C Aggregate  
Five Star® Rapid Surface Repair Easy Mix/Component C Aggregate  
Five Star® SP Epoxy Grout / Component C Aggregate  
Five Star® SP Epoxy Grout PG / Component C Aggregate

**Synonyms:** Aggregate, Component C

**Product Use:** Aggregate for reactive polymer construction products. Designed for use with appropriate hardener and resin.

**Restrictions on Use:** N/A

**Manufacturer/Supplier** Five Star Products, Inc.  
750 Commerce Drive  
Fairfield, CT 06825 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:** Eye Damage/Irritation – Category 1  
Sensitization – Respiratory, Category 1  
Carcinogenicity – Category 1A  
Specific Target Organ Systemic Toxicity (Single Exposure) – Cat 3  
Specific Target Organ Toxicity (Repeated Exposure) – Cat 2

**Label Elements/Hazard Pictograms:**



**Signal Word:** Warning



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**Hazard Statements:** Harmful if swallowed H302  
May cause respiratory irritation H335  
May cause cancer by inhalation H350  
May cause damage to organs through prolonged or repeat exposure H373

**Precautionary Statements/Prevention:** Do not breathe dust, fume, gas, mist, vapors, or spray, P260.  
Wash thoroughly after handling, P264.  
Wear protective gloves, protective clothing, eye protection and face protection, P280.  
Wear respiratory protection, P284.

**Response:** If swallowed: Rinse mouth. Do NOT induce vomiting, P330, P331.  
If inhaled: Remove person to fresh air and keep comfortable for breathing, P340.  
If in eyes: Rinse cautiously with water for several minutes, P351.  
Remove contact lenses, if present and easy to do. Continue rinsing, P338.  
Immediately call a poison center or doctor, P310.  
If skin irritation or rash occurs, P333: Get medical advice/attention, P313.  
If experiencing respiratory symptoms, P342: Call a poison center or doctor, P310. Wash contaminated clothing before reuse, P363.

**Storage:** Store locked up.

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

**Hazards Not Otherwise Classified:** Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Hazardous Ingredient(s)	Common Name/Synonyms	CAS No.	% wt/wt
Quartz	Silicon Dioxide, Silica Sand, Crystalline Silica	14808-60-7	65-90
Amorphous Silica Mixture	n/a	TS	10-35

## SECTION 4: FIRST AID MEASURES

**Inhalation:** If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If experiencing respiratory symptoms call poison center or doctor.



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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.
<b>Skin Contact:</b>	Wash skin thoroughly.
<b>Ingestion:</b>	If swallowed: Rinse mouth. 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).
<b>Note to Physicians:</b>	Symptoms may not appear immediately. Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

### Flammability and Explosion Information:

Not flammable or combustible by OSHA/WHMIS criteria.

### Sensitivity to Mechanical Impact:

This material is not sensitive to mechanical impact.

### Sensitivity to Static Discharge:

This material is not sensitive to static discharge.

## MEANS OF EXTINCTION

### Suitable Extinguishing Media:

Small Fire: Dry chemical, CO<sub>2</sub>, or water spray.  
Large Fire: Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material.

### Unsuitable Extinguishing Media:

Not available

### Product of Combustion:

Non-combustible

### Protection of Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Emergency Procedures:

Use personal protective equipment. Ensure adequate ventilation. Keep people from spill. Avoid dust formation.

### Personal Precautions:

Avoid inhalation of dust. Do not get into eyes, on skin, or clothing.

### Environmental Precautions:

The environmental impact of this product has not been fully investigated.



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**Methods for Containment:** Cover powder spill with plastic sheet or tarp to minimize spreading. Collect this material into a disposal container by sucking or sweeping up.

**Methods for Cleanup:** Pick up and transfer to properly labeled containers.

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

## SECTION 7: HANDLING AND STORAGE

**Handling:** Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Prevent contact with skin, eyes, and clothing. Wash thoroughly after handling.

**Storage:** Keep containers tightly closed in a cool, dry, and well-ventilated place. Store locked up.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Component	CAS No.	ACGIH TLV	OSHA PEL
Quartz	14808-60-7	TWA: 0.025mg/m <sup>3</sup> respirable fraction	30/(%SiO <sub>2</sub> +2) mg/m <sup>3</sup> TWA, Total Dust;250/(%SiO <sub>2</sub> +5) mppcf TWA, respirable fraction; 10/(%SiO <sub>2</sub> +2) mg/m <sup>3</sup> TWA, respirable  TWA: 0.1 mg/m <sup>3</sup> (vacated)

PEL: Permissible Exposure Limit      TLV: Threshold Limit Value

**Engineering Controls:** Not normally required.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Eye/Face Protection:** Tightly fitting safety goggles

**Hand Protection:** Impervious gloves. Impervious clothing.

**Skin and Body Protection:** Impervious gloves. Impervious clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
<b>Appearance:</b>	Granular Powder
<b>Color:</b>	Gray, Tan, Pink
<b>Odor:</b>	None
<b>Odor Threshold:</b>	None
<b>Physical State:</b>	Solid, powder
<b>pH:</b>	1:1 W/O Water=12
<b>Melting Point / Freezing Point:</b>	n/a
<b>Initial Boiling Point:</b>	n/a
<b>Boiling Point:</b>	n/a
<b>Flash Point:</b>	n/a
<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>	n/a
<b>Vapor Density:</b>	n/a
<b>Relative Density:</b>	2.5-2.8
<b>Solubility:</b>	Negligible
<b>Partition Coefficient: n-Octanol/Water:</b>	n/a
<b>Auto-ignition Temperature:</b>	n/a
<b>Decomposition Temperature:</b>	n/a
<b>Viscosity:</b>	n/a
<b>Percent Volatile, wt. %:</b>	n/a
<b>VOC Content, wt. %:</b>	n/a
<b>Density:</b>	n/a
<b>Coefficient of Water/Oil Distribution:</b>	n/a

## SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** None under normal processing.

**Conditions to Avoid:** Exposure to water – product may harden on contact with water.



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**Incompatible Materials:** Strong acids.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product information:

**Inhalation:** Irritating to respiratory system. Irritating to mucous membranes.

**Eye contact:** Risk of serious damage to eyes.

**Skin contact:** Irritating to skin. May cause allergic skin reaction.

**Ingestion:** Harmful if swallowed.

#### Component information:

Chemical Name: Quartz LD50 Oral: 500 mg/kg (Rat) ACGIH: A2 – Suspected Human Carcinogen

IARC: Group 1 – Carcinogenic to humans OSHA: X-present

Delayed and immediate effects and also chronic effects from short and long term exposure.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity:

**Aquatic Toxicity:** The environmental impact of this product has not been fully investigated.

**Persistence and Degradability:** No information available.

**Bio-accumulative Potential:** Does not accumulate in organisms

**Mobility in Soil:** No further relevant information available

**Ecotoxicological Effects Remark:** No information available.

**Additional Ecological Information:** No information available.

**General Notes:** This statement was deduced from products with a similar structure or composition. Due to available data on eliminability/decomposition and bio-accumulation potential prolonged term damage of the environment cannot be excluded. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Poisonous for fish and plankton in water bodies and toxic for aquatic organisms until alkaline pH is neutralized.

**PBT Assessment:** N/A

**vPvB Assessment:** N/A

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



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## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

**Recommendation:** This material as supplied is not a hazardous waste according to Federal regulations (40CFR261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered.

**Uncleaned Packaging Recommendation:** Disposal must be made according to official regulations. Do not re-use empty containers.

## SECTION 14: TRANSPORT INFORMATION

### US DEPARTMENT of TRANSPORTATION (DOT)

**Proper Shipping Name:** Not regulated

**Class:** N/A

**UN #:** N/A

**Packing Group:** N/A

### CANADA Transportation of Dangerous Goods (TDG)

**Proper Shipping Name:** Not regulated

**Class:** N/A

**UN #:** N/A

**Packing Group:** N/A

## 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.

**U.S. FEDERAL REGULATIONS** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the CFR, Part 372.

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





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## SARA 311/312 Hazard Categories

Acute health hazard – Yes  
Chronic Health hazard – Yes  
Fire Hazard – No  
Sudden Release of Pressure – No  
Reactive Hazard - No

## US STATE Right to Know Regulations

Chemical Name	NJ	MA	PA	IL	RI
Quartz	X	X	X		X

## California California Prop 65:

This product contains the following Proposition 65 chemicals.  
Chemical Name: Quartz CAS-No: 14808-60-7 CA Prop. 65: Carcinogen

## SECTION 16: OTHER INFORMATION

### Disclaimer:

The information contained in this document applies to the specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for one's own particular use.