



Safety Data Sheet

Date Revised: 9/23/2015

Supersedes: 4/28/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® MineForm® Backer Grout/Component A
Five Star® Epoxy Chock / Component A
Five Star® Epoxy Chock EX / Component A

Synonyms: Not available

Product Use: Epoxy grouting of equipment

Restrictions on Use: To be used with MineForm® Backer Grout/Component B
To be used with Epoxy Chock / Component B
To be used with Epoxy Chock EX / Component B

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: Irritant – Skin, Category 1
Irritant – Eye, Category 2A
Sensitization – Skin, Category 1
Aquatic - Acute, Category 2
Aquatic - Chronic, Category 2

Label Elements/Hazard Pictograms:



Signal Word: Danger

Hazard Statements: Harmful if swallowed, H302.
Causes skin irritation, H315.
May cause an allergic skin reaction, H317.
Toxic to aquatic life with long lasting effects, H411.

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.



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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: Not applicable

Ingredients with Unknown Toxicity: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	Common Name/Synonyms	CAS No.	% wt/wt
Diglycidyl Ether of Bisphenol-F	Not available	54208-63-8	20-30
Aliphatic Epoxide	Not available	TS	2-8
Inert Filler	Not available	TS	30-45
Silicon Dioxide	Crystalline Silica	14808-60-7	15-35

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.

Eye Contact: 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.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Immediately



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call a poison center or doctor if irritation develops. Wash contaminated clothing before reuse.

Ingestion:

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.

General Advice:

In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Note to Physicians:

Symptoms may not appear immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability and Explosion Information:

Not flammable or combustible by OSHA/WHMIS criteria.

Sensitivity to Mechanical Impact:

None

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/OSHA 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: 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
Diglycidyl Ether of Bisphenol-F	54208-63-8	No TLV established.	No PEL established.
Aliphatic Epoxide	TS	No TLV established.	No PEL established.
Inert Filler	TS	No TLV established.	No PEL established.
Silicon Dioxide	14808-60-7	See Table 8.1	See Table 8.1

Table 8.1 Occupational exposure limits:

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³
USA IDLH	US IDLH (mg/m ³)	50 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³) (Mineral Dust)	(30)/(% SiO ₂ + 2) mg/m ³ - total dust (10)/(% SiO ₂ + 2) mg/m ³ - respirable fraction

PEL: Permissible Exposure Limit TLV: Threshold Limit Value

Engineering Controls: Not normally required. Silicon dioxide is not in respirable form unless hardened material is ground or cut.

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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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 launder or discard.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Paste
Color:	Gray, Brown, Tan
Odor:	Semi Sweet
Odor Threshold:	Not Available
Physical State:	Paste
pH:	Not Applicable
Melting Point / Freezing Point:	Not Available
Initial Boiling Point:	Not Available
Boiling Point:	> 138°C (280°F)
Flash Point:	> 121°C (250°F) (SACC)
Evaporation Rate:	Not Applicable
Flammability (solid, gas):	Not Applicable
Lower Flammability Limit:	Not Applicable
Upper Flammability Limit:	Not Applicable
Vapor Pressure:	1.33 mBar
Vapor Density:	1 (Air = 1)
Relative Density:	1.83
Solubility:	Slightly
Partition Coefficient: n-Octanol/Water:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	30,000 – 45,000 cps
Percent Volatile, wt. %:	0%
VOC Content, wt. %:	0%
Density:	1.83
Coefficient of Water/Oil Distribution:	Not Available



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SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable
Possibility of Hazardous Reactions:	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.
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.
Bio-accumulative Potential:	Does not accumulate in organisms.
Mobility in Soil:	No further relevant information available.
Ecotoxicological Effects Remark:	Toxic for fish
Additional Ecological Info.	
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



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system. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

- PBT Assessment:** Not Applicable
- vPvB Assessment:** Not Applicable
- Other Adverse Effects:** No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

- Waste Treatment Methods** 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:** 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 (EPOXY RESIN), 9, PG III
- Class:** 9
- UN #:** 3082
- Packing Group:** III
- WATER TRANSPORTATION Proper Shipping Name (IMO/IMDG):** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (EPOXY RESIN), 9, PG III



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Class: 9
UN #: 3082
Packing Group: III
Marine Pollutant: Epoxy 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 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

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:	CAS No.	RTK List:
Silica, Crystalline	14808-60-7	Listed

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

Component:	CAS No.	RTK List:
Silica, Crystalline	14808-60-7	Listed

Note: SHHS = Special Health Hazard Substance

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

Component	CAS No.	RTK List:
Silica, Crystalline	14808-60-7	Listed

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



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SECTION 16: OTHER INFORMATION

HMIS (Hazardous Material Information System):

Health	Flammability	Physical Hazard	Personal Protection
2	1	0	B

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