



# Safety Data Sheet

Date Revised: 08/24/2022

Supersedes: 03/13/2019

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name(s):** **Five Star® Epoxy Chock / Component A**  
**Five Star® Epoxy Chock EX / Component A**  
**Five Star® MineForm® Backer Grout/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.  
2 Enterprise Drive, Suite 303  
Shelton, CT 06484 USA

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

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

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

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

**Label Elements/Hazard Pictograms:**



**Signal Word:** Danger

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

**Precautionary Statements/Prevention:** P260 Do not breathe dust, fume, gas, mist, vapors, or spray  
P264 Wash thoroughly after handling  
P270 Do not eat, drink or smoke when using this product  
P272 Contaminated work clothing should not be allowed out of the workplace



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P280 Wear protective gloves, protective clothing, eye protection and face protection

**Response:**

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

P361, P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P351 If in eyes: Rinse cautiously with water for several minutes. P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center or doctor.

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

P342 If experiencing respiratory symptoms: P310 Call a poison center or doctor. P363 Wash contaminated clothing before reuse.

**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
Bisphenol-F / Epichlorohydrin Epoxy Resin	Not Available	54208-63-8	20-30
Aliphatic Epoxide	Not Available	Trade Secret	2-8
Inert Filler	Not Available	Trade Secret	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.



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**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. 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 TLV	OSHA PEL
Bisphenol-F / Epichlorohydrin Epoxy Resin	54208-63-8	No TLV established.	No PEL established.
Aliphatic Epoxide	Trade Secret	No TLV established.	No PEL established.
Inert Filler	Trade Secret	No TLV established.	No PEL established.
Silicon Dioxide*	14808-60-7	TWA: 0.025mg/m <sup>3</sup> respirable fraction	TWA: 0.050 mg/m <sup>3</sup> AL: 0.025 mg/m <sup>3</sup>

PEL: Permissible Exposure Limit      TLV: Threshold Limit Value      AL: Actionable Level

\* Respirable (<6 micron) fraction of product is <0.1%. Inhalation is not an anticipated route of exposure unless cutting hardened material.

**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 launder or discard.



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

## SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** 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.

**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.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quartz	500 – 22,500 mg/kg (Rat)	Not Established	Not Established*

\*LCL50: 0.3 mg/m3 / 10Y (Human)

**Symptoms related to the physical, chemical and toxicological characteristics:**

No information available.

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

**Sensitization:**

May cause sensitization by skin contact.

**Mutagenic Effects:**

No information available.

**Carcinogenicity:**

The table below indicates whether each agency has listed any ingredient as a carcinogen. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). May cause cancer by inhalation.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz	A2*	Group 1	Known	X

\*The respirable fraction as a whole is less than 0.1% and anticipated usage would generate far less than 0.1% as a respirable quantity above exposure guidelines as noted in Section 8.



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**ACGIH: (American Conference of Governmental Industrial Hygienists):**

A2 - Suspected Human Carcinogen

**IARC: (International Agency for Research on Cancer):**

Group 1 - Carcinogenic to Humans

**NTP: (National Toxicity Program):**

Known Carcinogen

**OSHA: (Occupational Safety & Health Administration):**

X - Present

**Reproductive Toxicity:**

No information available.

**STOT - single exposure:**

May cause respiratory irritation.

**STOT - repeated exposure:**

Causes damage to organs through prolonged or repeated exposure if inhaled. Lungs.

**Chronic Toxicity:**

Inhalation overexposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease.

**Aspiration Hazard:**

No information available.

## Numerical measures of toxicity - Product

**The following values are calculated based on chapter 3.1 of the GHS document:**

LD 50 Oral: 500 mg/kg; Acute toxicity estimate

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



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**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

**Class:** 9





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**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.

### US STATE Right to Know Regulations:

Chemical Name	NJ	MA	PA	IL	RI
Silicon Dioxide	X	X	X		X

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

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%



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## SECTION 16: OTHER INFORMATION

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

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

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