



# Safety Data Sheet

Date Revised: 02/04/2021

Supersedes: 10/29/2020

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name(s):** Five Star® Crane Rail Grout / Component C Aggregate  
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® HP Epoxy Grout / Component C Aggregate  
Five Star Novolac Structural Concrete®/Component C Aggregate  
Five Star® Pile Jacket Epoxy Grout HP/Component C Aggregate  
Five Star® Pile Jacket Epoxy Grout LPL-HF/Component C Aggregate  
Five Star® ProFIX™/Component C Aggregate  
Five Star® RailForm™ HPG / 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 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:** Use per Five Star's product recommendations

**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:** Acute Oral Toxicity – Category 4  
Skin Corrosion/Irritation – Category 1  
Acute Toxicity – Dermal, Category 5  
Eye Damage/Irritation – Category 1  
Sensitization – Respiratory, Category 1  
Specific Target Organ Systemic Toxicity (Single Exposure) – Cat 3  
Carcinogenicity – Category 1A  
Specific Target Organ Toxicity (Repeated Exposure) – Cat 2

**Label Elements/Hazard Pictograms:****Signal Word:**

Warning

**Hazard Statements:**

H302 Harmful if swallowed

H313 May be harmful in contact with skin

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

H350 May cause cancer by inhalation

H373 May cause damage to organs through prolonged or repeat exposure

**Precautionary Statements/Prevention:**

P260 Do not breathe dust, fume, gas, mist, vapors, or spray.

P264 Wash thoroughly after handling.

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

P284 Wear respiratory protection.

**Response:**

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

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

P351, P338, P310 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

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

P342, P363 If experiencing respiratory symptoms: Call a poison center or doctor, P310. 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



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## 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	Not Applicable	Trade Secret	10-35

## SECTION 4: FIRST AID MEASURES

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

<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 not sensitive to static discharge.
<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>	Not available



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**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.

**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	TWA: 0.050 mg/m <sup>3</sup> AL: 0.025 mg/m <sup>3</sup>
Amorphous Silica Mixture	Trade Secret	Not Established	TWA: Total 15 mg/m <sup>3</sup> Respirable 5 mg/m <sup>3</sup>

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

\*Respirable (< 6 micron) fraction for product is <0.1%

**Engineering Controls:** Not normally required.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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



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**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.

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>	>2,000°F (1,093°C)
<b>Initial Boiling Point:</b>	Not Applicable
<b>Boiling Point:</b>	Not Applicable
<b>Flash Point:</b>	Not Applicable
<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>	Not Applicable
<b>Vapor Density:</b>	Not Applicable
<b>Relative Density:</b>	2.5-2.8
<b>Solubility:</b>	Negligible
<b>Partition Coefficient: n-Octanol/Water:</b>	Not Applicable
<b>Auto-ignition Temperature:</b>	Not Applicable
<b>Decomposition Temperature:</b>	Not Applicable
<b>Viscosity:</b>	Not Applicable



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<b>Percent Volatile, wt. %:</b>	Not Applicable
<b>VOC Content, wt. %:</b>	Not Applicable
<b>Density:</b>	2.5-2.8 g/cc
<b>Coefficient of Water/Oil Distribution:</b>	Not Applicable

## 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.

**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. May cause alkali burns.

**Ingestion:** Harmful if swallowed.

#### Secondary Component Information:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Amorphous Silica Mixture	> 2,000 mg/kg	> 2,000 mg/kg	> 5 mg/L

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

\*LCL50: 0.3 mg/m<sup>3</sup> / 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.



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**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.

**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 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



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## Ecotoxical 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:** Not Available

**vPvB Assessment:** Not Available

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

## 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:** None

**UN #:** None

**Packing Group:** None

### CANADA Transportation of Dangerous Goods (TDG)

**Proper Shipping Name:** Not regulated

**Class:** None

**UN #:** None

**Packing Group:** None





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**Air Transport (ICAO-IATA/DGR) Proper Shipping Name:** Not regulated

**Class:** None

**UN#:** None

**Packing Group:** None

**Sea Transport (IMDG Code/GGVSee) Proper Shipping Name:** Not regulated

**Class:** None

**UN#:** None

**Packing Group:** None

**Marine Pollutant:** None

**Special Provision(s):** None

## 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

**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
Amorphous Silica Mixture	X	X	X		



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**California**  
**California Prop 65:**

This product contains the following Proposition 65 chemicals.  
Chemical Name: Quartz, CAS-No: 14808-60-7 CA Prop. 65: Carcinogen  
Chemical Name: May contain trace amounts (<0.005%) of one or more of: arsenic, lead, nickel, cadmium, mercury, CA Prop 65: Birth defects or other reproductive harm.

**SECTION 16: OTHER INFORMATION**

**HMIS Rating:**

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

**Disclaimer:**

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