



Safety Data Sheet

Date Revised: 4/12/2016

Supersedes: 3/3/2016

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® 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 / 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.
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:

- 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:





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Signal Word: Warning

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



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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 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact:	Wash skin thoroughly.
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. 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 ₂ , or water spray. Large Fire: Dry chemical, CO ₂ , 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.



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- 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 ³ respirable fraction	30/(%SiO ₂ +2) mg/m ³ TWA, Total Dust;250/(%SiO ₂ +5) mppcf TWA, respirable fraction; 10/(%SiO ₂ +2) mg/m ³ TWA, respirable TWA: 0.1 mg/m ³ (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	
Appearance:	Granular Powder
Color:	Gray, Tan, Pink
Odor:	None
Odor Threshold:	None
Physical State:	Solid, powder
pH:	1:1 W/O Water=12
Melting Point / Freezing Point:	>2,000°F (1,093°C)
Initial Boiling Point:	Not Applicable
Boiling Point:	Not Applicable
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Flammability (solid, gas):	Not Applicable
Lower Flammability Limit:	Not Applicable
Upper Flammability Limit:	Not Applicable
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Relative Density:	2.5-2.8 g/cc
Solubility:	Negligible
Partition Coefficient: n-Octanol/Water:	Not Applicable
Auto-ignition Temperature:	Not Applicable
Decomposition Temperature:	Not Applicable
Viscosity:	Not Applicable
Percent Volatile, wt. %:	Not Applicable
VOC Content, wt. %:	Not Applicable
Density:	2.5-2.8 g/cc
Coefficient of Water/Oil Distribution:	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.



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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.

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



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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

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

UN #: None

Class: None

Packing Group: None

Marine Pollutant: None



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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

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

HMIS Rating:

Health	Flammability	Physical Hazard	Personal Protection
1	0	0	E

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.