



Safety Data Sheet

Date Revised: 06/21/2018

Supersedes: 04/18/2018

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® Pile Jacket Epoxy Grout LV / Component C Aggregate
Five Star® Pile Jacket Epoxy Grout LPL / Component C Aggregate
Five Star® Epoxy Chock EX / Component C Aggregate

Synonyms: Pile Jacket Sand

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

Restrictions on Use: Use per Five Star Products 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: Carcinogenicity – Category 1A
Specific Target Organ Toxicity (Single Exposure) – Cat 3
Specific Target Organ Toxicity (Repeated Exposure) – Cat 2

Label Elements/Hazard Pictograms:



Signal Word: Danger

Hazard Statements: 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.
P270 Do not eat, drink or smoke when using this product.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves, protective clothing, eye protection and face protection.
P271 Use only outdoors or in a well-ventilated area.



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Response: P330, P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
 P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P314 Get medical advice and attention if you feel unwell.
 P351 If in eyes: Rinse cautiously with water for several minutes. P338 Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

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	99-100

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: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Seek medical attention if material is embedded in eye. If eye irritation persists: Get medical advice and attention.

Skin Contact: Rinse immediately with plenty of water. Gently wash with plenty of soap and water. Obtain medical attention if irritation persists.

Ingestion: If swallowed: Do not induce vomiting: seek medical advice immediately and show this container or label. 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: If medical advice is needed, have product container or label at hand. 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.



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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, CO₂, or water spray.
Large Fire: Dry chemical, CO₂, 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:

None known

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.



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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	TWA: 0.050 mg/m ³ AL: 0.025 mg/m ³

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

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

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Avoid dust protection.

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. Handle in accordance with good industrial hygiene and safety practice. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Wear suitable protective clothing. Wash contaminated clothing before reuse.

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

Appearance:	Granular
Color:	Gray, Tan
Odor:	None
Odor Threshold:	None
Physical State:	Solid
pH:	Not Applicable
Melting Point / Freezing Point:	Not Applicable
Initial Boiling Point:	Not Applicable
Boiling Point:	Not Applicable
Flash Point:	Not Applicable



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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
Solubility:	Negligible
Partition Coefficient: n-Octanol/Water:	Not Applicable
Auto-ignition Temperature:	Not Applicable
Decomposition Temperature:	>3,000°F (1649°C)
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.
Conditions to Avoid:	Exposure to water – product may harden on contact with water.
Incompatible Materials:	Strong oxidizers.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:	Repeated inhalation of respirable crystalline silica (quartz) may cause silicosis, a fibrosis (scarring) of the lungs. Silicosis is irreversible and may be fatal. Silicosis increases the risk of contracting pulmonary tuberculosis. Some studies suggest that repeated inhalation of respirable crystalline silica may cause other adverse health effects including lung and kidney cancer.
Eye Contact:	Contact may cause mechanical irritation and possible injury.
Skin Contact:	No adverse effects expected.



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Ingestion: No adverse effects expected for incidental ingestion.

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.

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



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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity: Not Applicable

Persistence and Degradability: Not Applicable

Bio-accumulative Potential: Not Applicable

Mobility in Soil: No further relevant information available

Ecotoxicological Effects Remark: Not Applicable

Additional Ecological Information: Not Applicable

General Notes: No ecological effects are known other than to occupy volume as fill.

PBT Assessment: Not Applicable

vPvB Assessment: Not Applicable

Other Adverse Effects: No further relevant information known

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: Not Applicable

UN #: Not Applicable

Packing Group: Not Applicable

Air Transport: ICAO-IATA/DGR (Cargo) Proper Shipping Name: Not Regulated

Class: Not Applicable



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UN#: Not Applicable

Packing Group: Not Applicable

Sea Transport: (IMDG-Code/GGVSee): Not Regulated

Class: Not Applicable

UN #: Not Applicable

Packing Group: Not Applicable

CANADA Transportation of Dangerous Goods (TDG) Proper Shipping Name: Not Regulated

Class: Not Applicable

UN #: Not Applicable

Packing Group: Not Applicable

Other: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

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



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SECTION 16: OTHER INFORMATION

HMIS (Hazardous Material Information System):

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

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