



# Safety Data Sheet

Date Revised: 3/23/2016

Supersedes: 7/29/2015

## 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 Silica Sand

**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:** 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:** May cause respiratory irritation H335  
May cause cancer by inhalation H350  
Causes damage to organs through prolonged or repeat exposure H372

**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.  
Obtain special instructions before use, P201.  
Do not handle until all safety precautions have been read and understood, P202.  
Wear protective gloves, protective clothing, eye protection and face protection, P280.  
Use only outdoors or in a well-ventilated area, P271.

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



# Safety Data Sheet

Date Revised: 3/23/2016

Supersedes: 7/29/2015

If inhaled: Remove person to fresh air and keep comfortable for breathing, P340.  
Call a POISON CENTER/doctor if you feel unwell, P312.  
Get medical advice and attention if you feel unwell, P314.  
If in eyes: Rinse cautiously with water for several minutes, P351.  
Remove contact lenses, if present and easy to do. Continue rinsing, P338.

**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.



# Safety Data Sheet

Date Revised: 3/23/2016

Supersedes: 7/29/2015

## 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<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.

### 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.



# Safety Data Sheet

Date Revised: 3/23/2016

Supersedes: 7/29/2015

## 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	30/(%SiO <sub>2</sub> +2) mg/m <sup>3</sup> TWA, Total Dust;250/(%SiO <sub>2</sub> +5) mppcf TWA, respirable fraction; 10/(%SiO <sub>2</sub> +2) mg/m <sup>3</sup> TWA, respirable TWA: 0.1 mg/m <sup>3</sup> (vacated)

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

### 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



# Safety Data Sheet

Date Revised: 3/23/2016

Supersedes: 7/29/2015

<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>	>3,000°F (1649°C)
<b>Viscosity:</b>	Not Applicable
<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

<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions:</b>	None under normal processing.
<b>Conditions to Avoid:</b>	Exposure to water – product may harden on contact with water.
<b>Incompatible Materials:</b>	Strong oxidizers.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Acute Toxicity:</b>	LD50 Oral: 500 mg/kg (Rat) estimated
<b>Skin corrosion/irritation:</b>	Not classified
<b>Serious eye damage/irritation:</b>	Not classified
<b>Respiratory or skin sensitization:</b>	Not classified



# Safety Data Sheet

Date Revised: 3/23/2016

Supersedes: 7/29/2015

**Germ cell mutagenicity:** Not classified

**Component information:** Not classified

**Carcinogenicity:** May cause cancer (inhalation of respirable fraction); not anticipated as < 0.1% of product is respirable. If hardened material should be ground or cut, then respiratory issues should be considered.

Chemical Name: Quartz      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:** Not applicable

**Persistence and Degradability:** Not applicable

**Bio-accumulative Potential:** Not applicable

**Mobility in Soil:** No further relevant information available

**Ecotoxical 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.



# Safety Data Sheet

Date Revised: 3/23/2016

Supersedes: 7/29/2015

## SECTION 14: TRANSPORT INFORMATION

### US DEPARTMENT of TRANSPORTATION (DOT)

**Proper Shipping Name:** Not regulated

**Class:** N/A

**UN #:** N/A

**Packing Group:** N/A

### Air Transport: ICAO- IATA/DGR (Cargo) Proper Shipping Name:

Not regulated

**Class:** N/A

**UN#:** N/A

**Packing Group:** N/A

### Sea Transport: (IMDG- Code/GGVSee):

Not regulated

**Class:** N/A

**UN #:** N/A

**Packing Group:** N/A

### CANADA Transportation of Dangerous Goods (TDG) Proper Shipping Name:

Not regulated

**Class:** N/A

**UN #:** N/A

**Packing Group:** N/A

**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.



# Safety Data Sheet

Date Revised: 3/23/2016

Supersedes: 7/29/2015

**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 (Hazardous Material Information System:**

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.