



Safety Data Sheet


Date Revised: 01/15/2024

Supersedes: 08/08/2023

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s):	Five Star® 3/8 Coarse Aggregate Five Star® 3/8 Basalt Coarse Aggregate
Synonyms:	Not Applicable
Product Use:	Aggregate for volume extension of cementitious and/or epoxy products.
Restrictions on Use:	Use per Five Star's product recommendation
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:	Carcinogenicity – Category 1A Specific Target Organ Toxicity (Repeated Exposure) – Cat 1
Label Elements/Hazard Pictograms:	
Signal Word:	Danger
Hazard Statements:	H350 May cause cancer H372 Causes damage to organs through prolonged or repeated exposure
Precautionary Statements/Prevention:	P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. 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.



Safety Data Sheet

Date Revised: 01/15/2024

Supersedes: 08/08/2023

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 in an appropriate container or containment structure.

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
Aggregate/Gravel	N/A	N/A	97-99
Quartz	Silicon Dioxide, Silica Sand	14808-60-7	>1

Information on Non-Hazardous Components General Product Information: Trace Elements: These materials are mined from the earth. Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

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. Call physician is irritation persists.

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.



Safety Data Sheet

Date Revised: 01/15/2024

Supersedes: 08/08/2023

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: None

MEANS OF EXTINCTION

Suitable Extinguishing Media: Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media: None

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: Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin. Wear appropriate personal protective equipment as described in Section 8.

Personal Precautions: Avoid inhalation of dust. Do not get into eyes, on skin, or clothing.

Environmental Precautions: None.

Methods for Containment: Vacuum cleaning is the preferred method for the dry fine materials. Avoid dry sweeping which creates dust. Apply water spray to prevent airborne dust. Scrape up wet material and place in an appropriate container.

Methods for Cleanup: Pick up and transfer to properly labeled containers.

Other Information: See Section 13 for disposal considerations.



Safety Data Sheet

Date Revised: 01/15/2024

Supersedes: 08/08/2023

SECTION 7: HANDLING AND STORAGE

Handling: Wash thoroughly after exposure to dust. Promptly remove dusty clothing and launder before reuse.

Storage: Normal temperatures and pressures do not affect the material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	CAS No.	ACGIH TLV	NIOSH
Quartz**	14808-60-7	TWA: 0.025mg/m ³ respirable fraction	TWA: 0.05 mg/m ³ respirable dust

** Respirable(< 6 micron) fraction for product is < 0.01%.

Engineering Controls: Use local exhaust or general dilution ventilation to control exposure within applicable limits.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: When engaged in activities where ingredients could contact the eye, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with ingredients.

Hand Protection: Where prolonged exposure to products might occur, wear impervious gloves to eliminate skin contact.

Skin and Body Protection: Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory Protection: Avoid actions that cause dust exposure to occur. Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators should be used in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard [29 CFR 1910.134] to control exposures when ventilation or other controls are inadequate or discomfort or irritation is experienced. Respirator and/or filter cartridge selection should be based on American National Standards Institute (ANSI) Standards Z88.2 Practices for Respiratory Protection.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Granular Mixture
Color:	Gray/Brown/Tan
Odor:	No distinct odor



Safety Data Sheet

Date Revised: 01/15/2024

Supersedes: 08/08/2023

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:	None
Evaporation Rate:	Not Applicable
Flammability (solid, gas):	Not Applicable
Lower Flammability Limit:	None
Upper Flammability Limit:	None
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Relative Density:	2.6 – 2.8
Solubility:	Not Applicable
Partition Coefficient: n-Octanol/Water:	Not Applicable
Auto-ignition Temperature:	None
Decomposition Temperature:	Not Applicable
Viscosity:	Not Applicable
Percent Volatile, wt. %:	Not Applicable
VOC Content, wt. %:	Not Applicable
Density:	Not Applicable
Coefficient of Water/Oil Distribution:	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: This is a stable material.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: None

Incompatible Materials: None



Safety Data Sheet

Date Revised: 01/15/2024

Supersedes: 08/08/2023

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product information

Inhalation: The ingredients in this product could contain crystalline silica. Exposure to these ingredients in excess of the applicable TLV or PEL may cause or aggravate other lung conditions. Exposure may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system.

Eye contact: Exposure to airborne dust during the handling of this product may cause immediate or delayed irritation.

Skin contact: This product can cause abrasion and irritation to the skin.

Ingestion: This product can cause gastrointestinal irritation if ingested.

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

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

Respiratory Organ / Skin Sensitization: This product is not reported to have any sensitization effects.

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 0.01% and anticipated usage would generate far less than 0.01% as a respirable quantity.

ACGIH: (American Conference of Governmental Industrial Hygienists): A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer): Group 1 - Carcinogenic to Humans



Safety Data Sheet

Date Revised: 01/15/2024

Supersedes: 08/08/2023

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

This product is not reported to have any ecotoxicity effects. Dust can cause soiling and damage sensitive vegetation after prolonged exposure. Aggregates are classified inert and not considered to pose ecological concern.

Aquatic Toxicity:

No ecotoxicity data are available for this product's components.

Persistence and Degradability:

No information available.

Bio-accumulative Potential:

No information available for the product.

Mobility in Soil:

No information available for the product.

Ecotoxicological Effects

Remark:

No information available.

Additional Ecological Information:

No information available.

Other Adverse Effects:

No further relevant information available.



Safety Data Sheet

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

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: Dispose of contents/container in accordance with local / regional / national / international regulations.

SECTION 14: TRANSPORT INFORMATION

US DEPARTMENT of TRANSPORTATION (DOT)

Proper Shipping Name: 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

INTERNATIONAL AIR TRANSPORTATION Proper Shipping Name (ICAO/IATA):

Not Regulated

Class: Not Applicable

UN#: Not Applicable

Packing Group: Not Applicable

WATER TRANSPORTATION Proper Shipping Name (IMO/IMDG):

Not Regulated

Class: Not Applicable

UN #: Not Applicable

Packing Group: Not Applicable

Marine Pollutant: Not Applicable



Safety Data Sheet

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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 – No
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, respirable silica (<6 microns) trace amounts (< 0.01%); CA Prop. 65: Carcinogen

SECTION 16: OTHER INFORMATION

HMIS Rating:

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

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