

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s):	Five Star® Fluid Epoxy Grout/Component A
Synonyms:	Not available
Product Use:	Epoxy grouting, anchoring of equipment.
Restrictions on Use:	To be used with Fluid Epoxy Grout/Component B
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:	Skin Irritation, Category 2 Skin sensitization, Category 1 Eye Irritation, Category 2A Acute aquatic toxicity, Category 2 Chronic aquatic toxicity, Category 2
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Label Elements/Hazard Pictograms:

Signal Word:	Danger
Hazard Statements:	H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects
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 P272 Contaminated work clothing should not be allowed out of the workplace 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.



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

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

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 locked up.

Disposal: Dispose of contents/container in accordance with applicable regional, national, and local laws and regulations.

Hazards Not Otherwise Classified: Not Applicable

Ingredients with Unknown Toxicity: Not Applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Hazardous Ingredient(s)	Common Name/Synonyms	CAS No.	% wt/wt
Bisphenol A / Epichlorohydrin Epoxy Resin	Not Available	25068-38-6	20-35
Aliphatic Epoxide	Not Available	Trade Secret	2-8
Inert Filler	Not Available	Trade Secret	40-55
Silicon Dioxide	Crystalline Silica	14808-60-7	15-25

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. Immediately call a poison center or doctor.

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



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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.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability and Explosion Information: Not flammable or combustible by OSHA/WHMIS criteria.

Sensitivity to Mechanical Impact: Not Available

MEANS OF EXTINCTION

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: Not Available

Protection of Firefighters: Wear self-contained breathing apparatus for fire-fighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. Eliminate all ignition sources.

Personal Precautions: Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for Containment: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Other Information: See Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Handling: Do not swallow. Do not breathe mist, vapors, or spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Contaminated work clothing should not be allowed out of workplace. See Section 8 for information on Personal Protective Equipment.



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Storage: Store locked up. Store away from incompatible materials. See Section 10 for information on incompatible materials. Keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	CAS No.	ACGIH TLV	OSHA PEL
Diglycidyl Ether of Bisphenol-A	25068-38-6	No TLV established	No PEL established
Aliphatic Epoxide	Trade Secret	No TLV established	No PEL established
Inert Filler	Trade Secret	No TLV established	No PEL established
Silicon Dioxide*	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%. Inhalation not an anticipated route of exposure unless cutting hardened material.

Engineering Controls: Not normally required.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Face shield and safety glasses. Use equipment for eye protection that meets the standards referenced for OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Hand Protection: Wear protective gloves. Rubber or polyethylene material is recommended. Consult manufacturer specifications for further information.

Skin and Body Protection: Wear protective clothing. Clothing with full length sleeves and pants should be worn.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices. Provide readily accessible eye wash stations and safety showers. Wash at end of shift and before eating, smoking, or using the toilet. Remove contaminated clothing and launder or discard.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Paste
Color:	Brown
Odor:	Semi Sweet
Odor Threshold:	Not Available



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Physical State:	Paste
pH:	Not Applicable
Melting Point / Freezing Point:	Not Available
Initial Boiling Point:	Not Available
Boiling Point:	> 138°C (280°F)
Flash Point:	> 121°C (250°F) (SACC)
Evaporation Rate:	Not Applicable
Flammability (solid, gas):	Not Applicable
Lower Flammability Limit:	Not Applicable
Upper Flammability Limit:	Not Applicable
Vapor Pressure:	1.33 mBar
Vapor Density:	1 (Air = 1)
Relative Density:	1.75
Solubility:	Slighty
Partition Coefficient: n-Octanol/Water:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	20,000 – 30,000 cps
Percent Volatile, wt. %:	0%
VOC Content, wt. %:	0%
Density:	Not Available
Coefficient of Water/Oil Distribution:	Not Available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable
Possibility of Hazardous Reactions:	CO, CO ₂ , smoke, toxic vapors
Conditions to Avoid:	Amine compounds under uncontrolled conditions.
Incompatible Materials:	Strong oxidizing agents.



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SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Primary Irritant Effect

On the Skin: Irritant to skin and mucous membranes.

Primary Irritant Effect

On the Eye: Irritating effect.

Sensitization:

Sensitization possible through skin contact.
Sensitizing effect through inhalation is possible by prolonged exposure.

Additional Toxicological Information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant
Danger through skin adsorption.
Toxic and/or corrosive effects may be delayed up to 24 hours.

Sensitization:

Sensitization possible by inhalation and/or dermal contact.

Repeated Dose Toxicity:

Repeated exposures may result in skin and/or respiratory sensitivity.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silicon Dioxide	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
Silicon Dioxide	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.



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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 material is harmful to the environment.

Persistence and Degradability:

The product is partly biodegradable. Significant residuals remain.

Bio-accumulative Potential:

Does not accumulate in organisms.

Mobility in Soil:

No further relevant information available.

Ecotoxicological Effects Remark:

Toxic for fish

Additional Ecological Info.

General Notes:

This statement was deduced from products with a similar structure or composition. Due to available data on eliminability/decomposition and bioaccumulation 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. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

PBT Assessment:

Not Applicable

vPvB Assessment:

Not Applicable



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Other Adverse Effects: No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Uncleaned Packaging Recommendation: Disposal must be made according to official regulations.

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

INTERNATIONAL AIR

TRANSPORTATION Proper Shipping Name (ICAO/IATA): UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (BISPHENOL-A EPOXY RESIN), 9, PG III

Class: 9

UN #: 3082

Packing Group: III

WATER TRANSPORTATION

Proper Shipping Name (IMO/IMDG): UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (BISPHENOL-A-EPOXY RESIN), 9, PG III

Class: 9

UN #: 3082

Packing Group: III

Marine Pollutant: Bisphenol-A Epoxy Resin



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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 the NSN Regulations under CEPA, 1999

FEDERAL REGULATIONS

CANADA: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification:
Class D1B - Toxic Material
Class D2A - Respiratory sensitization
Class D2B - Skin sensitization

UNITED STATES: This SDS had been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200

SARA Title III: No components are listed.

US STATE Right to Know Regulations:

Chemical Name	NJ	MA	PA	IL	RI
Silica, Crystalline	X	X	X		X

California California Prop 65: This product contains the following Proposition 65 chemicals:
Chemical Name: Quartz CAS-No: 14808-60-7 Carcinogen

Chemical Name: Epichlorohydrin, CAS No. 106-89-8, CA Prop 65: Carcinogen, May contain trace amounts (<0.1%)

Chemical Name: Bisphenol A, CAS No. 80-05-7, CA Prop 65: Birth defects or other reproductive harm – female, contains <1%

Chemical Name: Epichlorohydrin, CAS No. 106-89-8, CA Prop 65: Birth defects or other reproductive harm – male, contains <0.1%

SECTION 16: OTHER INFORMATION

HMIS Rating:

Health	Flammability	Physical Hazard	Personal Protection
2	1	0	X, B

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