



Safety Data Sheet

Date Revised: 6/15/2017

Supersedes: 06/29/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® Epoxy Capping Material/Component A

Synonyms: N/A

Product Use: Concrete Repair
Part of **Five Star® Pressure Port Crack Repair System**

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 (Component A)

Classification: Skin Irritation, Category 2
Eye Irritation, Category 2B
Skin Sensitizer, Category 1B
Carcinogen, Category 1

Label Elements/Hazard Pictograms:



Signal Word: Danger

Emergency Overview: May cause an allergic skin reaction
Causes skin and eye irritation
May cause cancer
Wash skin thoroughly after handling
Avoid breathing fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Use outdoors or in a well-ventilated area

Primary Route of Exposure: Eyes, skin, oral

Carcinogenicity: This product or one of its ingredients present at 0.1% or more IS listed as a carcinogen or suspect carcinogen by NTP, IARC, Prop 65 or OSHA.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (Component A)			
Chemical Name(s)	Common Name/Synonyms	CAS No.	Content %
Diglycidyl Ether of Bisphenol A	N/A	25085-99-8	40 - 70
Quartz Silica Sand (Crystalline Silica)	N/A	14808-60-7	0.1 - 1
Titanium Dioxide	N/A	13463-67-7	1 - 5
Ethylene Glycol	N/A	107-21-1	3 - 7
Non-Hazardous Proprietary Ingredients	N/A	Proprietary	15 - 30
Trimethylol Ethane Triglycidyl Ether	N/A	68460-21-9	7 - 15

SECTION 4: FIRST AID MEASURES (Component A)

Inhalation: Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if symptoms persist.

Skin Contact: Remove contaminated clothing. Wash with mild soap and water. Get medical attention if skin irritation or dermatitis persists.

Ingestion: Give plenty of water. DO NOT induce vomiting. Call a physician immediately.

Other: Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

SECTION 5: FIRE-FIGHTING MEASURES (Component A)

Flash Point: 149°C (>300°F)

Flammable Limits: N/A

Extinguisher Media Carbon Dioxide, Dry Chemical, Water Fog

Unusual Fire and Explosion Hazard: None Known. Thermal Decomposition can be formed.

Special Fire Fighting Procedures: Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES (Component A)

Personal Precautions: Avoid all personal contact. In enclosed areas, cleanup personnel should wear self-contained breathing apparatus.



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Environmental Precautions: Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting.

SECTION 7: HANDLING AND STORAGE (Component A)

Handling: Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Use with adequate ventilation. Use appropriate personal protection equipment (Section 8). Wash thoroughly after handling.

Storage: Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature range in between 4°C and 35°C (40°F and 95°F).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (Component A)

Exposure Guidelines:

Component(s)	CAS No.	OSHA PEL	TLV
Titanium Dioxide	13463-67-7	15 mg/m ³	10 mg/m ³
Quartz Silica Sand (Crystalline Silica)	14808-60-7	0.1 mg/m ³	0.025 mg/m ³

Engineering Measures: Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear splash proof chemical goggles / full face shield if there is a potential for splashing.

Skin / Body Protection: Wear suitable gloves (neoprene, nitrile rubber or PVC) and protective clothing to mitigate exposure.

Other Protective Clothing or Equipment: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

Respiratory Protection None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Component A)

Appearance:	White Paste
Evaporation Rate:	N/D
Odor:	Slight Odor
Solubility in Water::	Insoluble
Specific Gravity (g/cc):	1.27
Vapor Density (air = 1)	Non-volatile



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Vapor Pressure:	N/D
VOC Content:	60 g/l (when mixed)
pH:	N/D
Boiling Point:	N/D

SECTION 10: STABILITY AND REACTIVITY (Component A)

Stability:	Stable
Thermal Decomposition:	Can yield CO, CO ₂ and organic Nitrogen compounds.
Incompatibilities:	Strong acids, peroxides and other oxidizing agents
Conditions to avoid:	Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.

SECTION 11: TOXICOLOGICAL INFORMATION (Component A)

Acute Oral Toxicity:	Not determined
Acute Dermal Toxicity:	Not determined
Acute Inhalation Toxicity:	Not determined
Skin Irritation:	Irritating to skin. The product has not been tested. The statement has been derived from the properties of the individual components.
Eye Irritation:	Irritating to eyes. The product has not been tested. The statement has been derived from the properties of the individual components.
Respiratory Irritation:	Inhalation of vapors or mists may cause irritation to the respiratory system.
Sensitization:	May cause allergic skin reaction and irritation to the respiratory system. The product has not been tested. The statement has been derived from the properties of the individual components.
STOT – Single exposure:	Not determined
STOT – Repeated exposure:	Not determined
Carcinogenicity Classification:	
Quartz Silica Sand (Crystalline Silica):	IARC Group 1: Known human carcinogen based on human evidence.
Titanium Dioxide:	IARC Group 2B: Possibly carcinogenic to humans. This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



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SECTION 12: ECOLOGICAL INFORMATION (Component A)

Fish: Diglycidyl Ether of Bisphenol A:
Fathead minnow/LC50 (96hrs): >3.1mg/l

Aquatic Invertebrates: Diglycidyl Ether of Bisphenol A:
Water Flea Daphnis/EC50 (48hrs): >1.4mg/l

Algae: No data available

Microorganisms: Diglycidyl Ether of Bisphenol A:
Bacteria (Growth inhibition)/IC50 (18hrs): >42.6mg/l

Mobility: Considering the use of the substance, it is unlikely that significant environmental exposure in the air or water will arise.

SECTION 13: DISPOSAL CONSIDERATIONS (Component A)

If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION (Component A)

This product is not regulated as a hazardous material for transportation.

SECTION 15: REGULATORY INFORMATION (Component A)

HMIS Rating	
Health	2
Flammability	1
Physical Hazard	0
PPE	B



Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Federal Regulations:

CERCLA RQ

Sara Title 311/312: Not Determined

CA Prop 65: This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

TSCA: Listed or exempt

State Regulations:

State RTK NJ, MA, PA

Chemical Name(s)	CAS No.
Diglycidyl Ether of Bisphenol A	25085-99-8
Titanium Dioxide	13463-67-7
Ethylene Glycol	107-21-1



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SECTION 16: OTHER INFORMATION (Component A)

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.



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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® Epoxy Capping Material/Component B

Synonyms: N/A

Product Use: Concrete Repair
Part of **Five Star® Pressure Port Crack Repair System**

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 (Component B)

Classification: Skin Corrosion, Category 1
Serious Eye Damage, Category 1
Reproductive toxicity, Category 2
Carcinogen, Category 1
Toxic to Aquatic Life, Category 2

Label Elements/Hazard Pictograms:



Signal Word: Danger

Emergency Overview: Causes skin burns
Causes severe eye damage
Suspected of damaging fertility
May cause cancer
Wash skin thoroughly after handling
Avoid breathing fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Use outdoors or in a well-ventilated area
Avoid contact during pregnancy/while nursing

Primary Route of Exposure: Eyes, skin and oral

Carcinogenicity: This product or one of its ingredients present at 0.1% or more is listed as a carcinogen or suspect carcinogen by NTP, IARC, Prop 65 or OSHA.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (Component B)

Chemical Name(s)	Common Name/Synonyms	CAS No.	Content %
N- Aminoethylpiperazine	N/A	140-31-8	10 - 20
Triethylenetetramine	N/A	112-24-3	0.5 – 1.5
Ethylene Glycol	N/A	107-21-1	3 - 7
Nonylphenol	N/A	84852-15-3	10 - 20
Benzyl Alcohol	N/A	100-51-6	1 - 5
Non-Hazardous Proprietary Ingredient	N/A	Proprietary	10 - 20
Crystalline Silica	N/A	14808-60-7	<1

SECTION 4: FIRST AID MEASURES (Component B)

Inhalation:	Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if symptoms persist.
Skin Contact:	Remove contaminated clothing. Wash with mild soap and water. Get medical attention if skin irritation or dermatitis persists.
Ingestion:	Give plenty of water. DO NOT induce vomiting. Call a physician immediately.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

SECTION 5: FIRE-FIGHTING MEASURES (Component B)

Flash Point:	>93°C (200°F)
Flammable Limits:	N/A
Extinguisher Media:	Carbon Dioxide, Dry Chemical, Water Fog
Unusual Fire and Explosion Hazard:	None Known. Thermal Decomposition can be formed.
Special Fire Fighting Procedures:	Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.



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SECTION 6: ACCIDENTAL RELEASE MEASURES (Component B)

Personal Precautions: Avoid all personal contact. In enclosed areas, cleanup personnel should wear self-contained breathing apparatus.

Environmental Precautions: Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting.

SECTION 7: HANDLING AND STORAGE (Component B)

Handling: Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Use with adequate ventilation. Use appropriate personal protection equipment (Section 8). Wash thoroughly after handling.

Storage: Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature range is between 4°C and 35°C (40°F and 95°F).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (Component B)

Exposure Guidelines:

Component	CAS No.	OSHA PEL	TLV
Ethylene Glycol	107-21-1	50 ppm (Ceiling)	100 mg/m ³ (Ceiling)
Quartz Silica Sand (Crystalline Silica)	14808-60-7	0.1 mg/m ³	0.025 mg/m ³
Benzyl Alcohol	100-51-6	50 ppm (Ceiling)	100 mg/m ³
Calcium Carbonate	471-34-1	5 mg/m ³	20 mg/m ³

Engineering Measures: Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear splash proof chemical goggles / full face shield if there is a potential for splashing.

Skin / Body Protection: Wear suitable gloves (neoprene, nitrile rubber or PVC) and protective clothing to mitigate exposure.

Other Protective Clothing or Equipment: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

Respiratory Protection: None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Component B)	
Appearance:	Black Paste
Evaporation Rate:	N/A
Odor:	Slight Odor
Solubility in Water::	Insoluble
Specific Gravity (g/cc):	1.35
Vapor Density (air=1):	Non-Volatile
Vapor Pressure:	N/A
VOC Content:	60 g/l (when mixed)
Boiling Point:	N/A
pH:	N/D

SECTION 10: STABILITY AND REACTIVITY (Component B)	
Stability:	Stable
Thermal Decomposition:	Can yield CO, CO ₂ and organic Nitrogen compounds.
Incompatibilities:	Strong acids, peroxides and other oxidizing agents
Conditions to Avoid:	Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.

SECTION 11: TOXICOLOGICAL INFORMATION (Component B)	
Acute Oral Toxicity:	Not determined
Acute Dermal Toxicity:	Not determined
Acute Inhalation Toxicity:	Not determined
Skin Irritation:	Corrosive to skin. This product has not been tested. The statement has been derived from the properties of the individual components.
Eye Irritation:	Severe damage to eyes. This product has not been tested. The statement has been derived from the properties of the individual components.
Respiratory Irritation:	Inhalation of vapors or mists may cause irritation to the respiratory system.
Sensitization:	May cause allergic skin reaction and irritation to the respiratory system. The product has not been tested. The statement has been derived from the properties of the individual components.
Carcinogenicity Classification:	



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Quartz Silica Sand (Crystalline Silica): IARC Group 1: Known human carcinogen based on human evidence. NTP (National Toxicology Program) has classified Crystalline Silica as a known human carcinogen.

SECTION 12: ECOLOGICAL INFORMATION (Component B)

At the present state of knowledge, no negative ecological effects are expected. Past experiences have shown this material to have no harmful effect on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS (Component B)

If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION (Component B)

US DEPARTMENT of TRANSPORTATION (DOT) Proper Shipping Name:	CARTRIDGE: Limited Quantity, LTD QTY BULK – Corrosive Liquid, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched)
Class:	8
UN #:	UN1760
Packing Group:	III

INTERNATIONAL AIR TRANSPORTATION (ICAO/IATA) Proper Shipping Name:	CARTRIDGE/BULK: Corrosive Liquid, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched)
Class:	8
UN #:	UN1760
Packing Group:	III

IMDG Proper Shipping Name:	CARTRIDGE/BULK Corrosive Liquid, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched)
Class:	8
UN #:	UN1760
Packing Group:	III
Marine Pollutant:	Yes

SECTION 15: REGULATORY INFORMATION (Component B)

HMIS Rating	
Health	*3
Flammability	1
Physical Hazard	0
PPE	B





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Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Federal Regulations:

CERCLA RQ 5000 lbs	CAS 107-121	Chemical Name Ethylene Glycol
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Sara Title 311/312 Chronic Health Hazard

CA Prop 65 This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

TSCA Listed

State Regulations:

State RTK NJ, MA, PA

Chemical Name(s)	CAS No.
Ethylene Glycol	107-21-1
Quartz Silica Sand (Crystalline Sand)	14808-60-7
n-aminoethylpiperazine	140-31-8
Hydrous Magnesium	14807-96-6

SECTION 16: OTHER INFORMATION (Component B)

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