



Safety Data Sheet

Date Revised: 06/21/2018

Supersedes: 11/13/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® MP Epoxy Patch / Component C

Synonyms: Not Applicable

Product Use: Durable concrete construction and repair; Chemical resistant applications.

Restrictions on Use: Use with MP Epoxy Patch Components A and B.

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.

Response: P330, P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.



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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.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Substance	Common Name/Synonyms	CAS No.	EC Number
Quartz	Silicon Dioxide, Silica Sand, Crystalline Silica	14808-60-7	238-878-4

SECTION 4: FIRST AID MEASURES

Inhalation: If inhaled: Supply fresh air; consult doctor in case of complaints.

Eye Contact: If in EYES: Rinse opened eye for several minutes under running water.

Skin Contact: If skin irritation continues, consult a doctor.

Ingestion: If swallowed: Seek medical treatment.

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

MEANS OF EXTINCTION

Suitable Extinguishing Media: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture: No further relevant information available.

Protection of Firefighters: Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment & Emergency Procedures: Wear protective equipment. Keep unprotected persons away.

Environmental Precautions: No special measures required. Do not allow to enter sewers / surface or ground water.

Methods and Material for Containment and Clean up: Pick up mechanically.

Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

Information about protection against Explosions and Fires: No special measures required.

Storage: Keep receptacle tightly sealed.

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: Not normally required.

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.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-



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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:	Solid
Color:	Tan, Gray, White
Odor:	None
Odor Threshold:	Not determined
pH value:	Not applicable
Melting Point / Melting Range:	1713°C (3115°F)
Boiling Point / Boiling Range:	Undetermined
Flash Point:	Not applicable
Flammability (solid, gaseous):	Not determined
Decomposition Temperature:	Not determined
Auto Igniting:	Product is not self-igniting.
Danger of Explosion:	Product does not present an explosion hazard.
Explosion Limit – Lower:	Not determined
Explosion Limit – Upper:	Not determined
Vapor Pressure at 1732°C (3150°F):	13.5 hPa (10 MM Hg)
Density at 20°C (68°F):	2.425 g/cm ³ (20.237 lbs/gal)
Bulk density at 20°C (68°F):	1400 kg/m ³
Relative Density:	2.4
Vapor Density:	Not applicable
Evaporation Rate:	Not applicable
Solubility in / Miscibility with Water:	Insoluble
Partition Coefficient: n-Octanol/Water:	Not determined
Viscosity, Dynamic:	Not applicable
Viscosity, Kinematic:	Not applicable
Organic Solvents:	0.0%
Solids Content:	100.0%



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Other information:	No further relevant information available
Volatile Organic Compounds:	Not determined

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 acids.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product information

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.
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.



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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 presence of a minimal amount of crystalline silica is typical in the mineral admixture, 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

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Not Applicable

Aquatic Toxicity:

Not Applicable

Persistence and Degradability:

Not Applicable

Bio-accumulative Potential:

Does not accumulate in organisms

Mobility in Soil:

No further relevant information available



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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 Available

vPvB Assessment:

Not Available

Other Adverse Effects:

No further relevant information available

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

CANADA Transportation of Dangerous Goods (TDG)

Proper Shipping Name: Not Regulated

Class: Not Applicable

UN #: Not Applicable

Packing Group: Not Applicable

Air Transport (ICAO-IATA/DGR)

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
UN #: Not Applicable
Proper Shipping Name: Not Applicable
Class: Not Applicable
Packing Group: Not Applicable
Marine Pollutant: Not Applicable
Special Provision(s): Not Applicable

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

SECTION 16: OTHER INFORMATION

HMIS Rating:	Health	Flammability	Physical Hazard	Personal Protection
	1	0	0	E,X



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Disclaimer:

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