



Safety Data Sheet

Date Revised: 5/28/2019

Supersedes: 9/3/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® Injection Gel / Component A
Five Star® Underwater Epoxy Gel / Component A

Synonyms: N/A

Product Use: Crack and concrete surface repair; sealing

Restrictions on Use: Use with Injection Gel Component B
Use with Underwater Epoxy Gel Component 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: Sensitization - Skin, Category 1
Eye Irritation, Category 2A
Carcinogenicity, Category 2

Label Elements/Hazard Pictograms: 

Signal Word: Warning

Hazard Statements: May cause an allergic skin reaction, H317
Caused serious eye irritation, H319
Suspected of causing cancer, H351

Precautionary Statements/Prevention: If medical device is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.

Response: If in EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label).

Storage: Store locked up.



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

Classification System

NFPA ratings (scale 0-4):



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Dangerous components	CAS No.	% wt/wt
Diglycidyl ether of bisphenol A homopolymer	25085-99-8	75-100
Calcium Carbonate	471-34-1	≤5
Titanium Dioxide	13463-67-7	≤2.5
Fine Filler	14807-96-6	5-15

SECTION 4: FIRST AID MEASURES

Inhalation: If inhaled: Supply fresh air and be sure to call for a doctor. In case of unconsciousness, place patient stably in side position for transportation.

Eye Contact: If in eyes: Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin Contact: In 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: Use firefighting measures that suit the environment.

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



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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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Environmental Precautions: Inform respective authorities in case of seepage into water course or sewage system.

Methods and Material for Containment and Clean up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

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 measure required.

Storage: Keep receptacle tightly sealed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data.

Components with limit values that require monitoring at the workplace:

471-34-1 Calcium carbonate	
PEL	Long-term value: 15* 5** mg/m ³ *total dust, **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust, **respirable fraction
TLV	TLV withdrawn

**Respirable fraction of product is <0.1%. Inhalation is not an anticipated route of exposure, unless cutting or grinding hardened material.



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PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Eye/Face Protection:** Wear appropriate eye protection to prevent eye contact.
- Hand Protection:** Wear protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation.
Material of Gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality material and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
Penetration Time of Glove Material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Breathing Equipment:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- General Protective and Hygiene Considerations:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Liquid
Color:	Clear
Odor:	Mild
Odor Threshold:	Not determined
pH value:	Not determined
Melting Point / Melting Range:	Undetermined
Boiling Point / Boiling Range:	260°C (500°F)
Flash Point:	249°C (480°F)
Flammability (solid, gaseous):	N/A
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
Density at 20°C (68°F):	1.202 g/cm ³ (10.031 lbs/gal)
Relative Density:	Not determined
Vapor Density:	Not determined



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Evaporation Rate:	Not determined
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition Coefficient (n-octanol/water):	Not determined
Viscosity, Dynamic:	Not determined
Viscosity, Kinematic:	Not determined
Organic Solvents:	0.0%
Solids Content:	100.0%
Other information:	No further relevant information available
Volatile Organic Compounds:	Not determined

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions:

No dangerous reactions known.

Conditions to Avoid:

No further relevant information available.

Incompatible materials:

No further relevant information available.

Hazardous decomposition products:

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

LD/LC50 values that are relevant for classification:

25085-99-8 Diglycidyl ether of bisphenol A homopolymer		
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

Primary Irritant Effect On the Skin:

May cause skin irritation.

Primary Irritant Effect On the Eye:

Irritating effect.

Sensitization:

Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

Carcinogenic Categories



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IARC (Int'l Agency for Research on Cancer): 14807-96-6, Talc (MG3H2(SiO3)4), 2B
 13463-67-7, Titanium dioxide, 2B

NTP (National Toxicology Program): None of the ingredients are listed.

OSHA-Ca: None of the ingredients are listed.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity: No further relevant information available.

Persistence and Degradability: No further relevant information available.

Bio-accumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Ecotoxicological Effects Remark: Toxic for fish.

Additional Ecological Information

General Notes: Water hazard class 1 (self-assessment): Slightly hazardous for water. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

PBT Assessment: Not available

vPvB Assessment: Not available

Other Adverse Effects: No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Recommendation: Must not be disposed of as normal garbage. Do not allow product to reach sewage system. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal and provincial environmental regulations.

Uncleaned Packaging Recommendation: Disposal must be made according to Federal, State & Local regulations.



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SECTION 14: TRANSPORT INFORMATION

UN Number

IMDG: UN3082

UN Proper Shipping Name

IMDG: Environmentally hazardous substance, Liquid, N.O.S. (epoxy resin), Marine Pollutant

Transport Hazard Class(es)

DOT, ADR, IATA Class N/A

IMDG Class: 9, Miscellaneous dangerous substances and articles

IMDG Label: 9

Packing Group: III

DOT, ADR, IMDG, IATA

Environmental Hazards

Marine Pollutant: Yes
Symbol (fish and tree)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not Applicable

Transport/Additional Information

DOT Remarks: Add "Marine Pollutant" to end of proper shipping name if shipping in a bulk container (>119 gallons).
Special marking with the symbol (fish and tree).
Not regulated for transport.

ADR

U.S. Domestic Ground Shipments: Same as listed for Standard Shipments above.

U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: Same as listed for Standard Shipments above.

Emergency Response Guide (ERG) Number: Not determined

IMDG Limited quantities (LQ): 5L

IMDG Excepted quantities (EQ): Code:E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": N/A, III



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SECTION 15: REGULATORY INFORMATION

SARA

Section 355 (Extremely Hazardous Substances): None of the ingredients are listed.

Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

CHEMICAL INVENTORIES

US (TSCA): All ingredients are listed.

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 Regulation.

WHMIS Classification:

Class D1B – Toxic Material
Class D2A – Respiratory sensitization
Class D2B – Skin sensitization

CA Proposition 65

Chemicals known to the State of California to cause cancer:

Titanium dioxide, 13463-67-7; *Talc, 14807-96-6; Epichlorohydrin (<0.1%), 106-89-8

Chemicals known to cause reproductive toxicity for females:

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

Chemicals known to cause reproductive toxicity for males:

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

Carcinogenicity Categories

EPA: None of the ingredients are listed.

TLV: 14807-96-6, Talc (Mg₃H₂(SiO₃)₄), A4
13463-67-7, Titanium dioxide, A4

MAK (German Maximum Workplace Concentration): 14807-96-6, Talc (Mg₃H₂(SiO₃)₄), 3B
13463-67-7, Titanium dioxide, 3A

NIOSH-Ca 13463-67-7, Titanium dioxide

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

*Not in a form anticipated to present a respirable hazard, unless cut or ground in the hardened state.



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SECTION 16: OTHER INFORMATION

HMIS (Hazardous Material Information System):

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

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