



# Safety Data Sheet


Date Revised: 02/26/2020

Supersedes: 7/22/2015

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name(s):</b>	<b>Five Star® Bonding Adhesive / Component A</b>
Synonyms:	Not Applicable
Product Use:	To enhance bonding of cement-based construction products; general epoxy adhesive
Restrictions on Use:	Use with Bonding Adhesive Component B
Manufacturer/Supplier	Five Star Products, Inc. 60 Parrott Drive Shelton, CT 06484 USA
Phone #:	203-336-7900
<b>Emergency Phone #:</b>	<b>CHEM-TEL 1-800-255-3924</b> <b>(Outside the U.S. 1-813-248-0585)</b>

## SECTION 2: HAZARD(S) IDENTIFICATION-GHS INFORMATION

<b>Classification:</b>	Skin Irritation, Category 2 Skin sensitization, Category 1 Eye Irritation, Category 2A Acute aquatic toxicity, Category 2 Chronic aquatic toxicity, Category 2
<b>Label Elements/Hazard Pictograms:</b>	
<b>Signal Word:</b>	Warning
<b>Hazard Statements:</b>	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
<b>Precautionary Statements/Prevention:</b>	P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash skin thoroughly after handling P272 Contaminated work clothing should not be allowed out of the workplace P273 Avoid release to the environment P280 Wear protective gloves/eye protection/face protection
<b>Response:</b>	If in eyes: Rinse cautiously with water for several minutes, P351. Remove contact lenses, if present and easy to do. Continue rinsing,



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P338, P305, P351 If eye irritation persists: Get medical attention/advice, P337, P313  
If on skin (or hair): Wash with plenty of soap and water, P302, P352  
If swallowed: Rinse mouth. Do NOT induce vomiting, P330, P331.  
If skin irritation or rash occurs, P333: Get medical advice/attention, P313.  
Take of contaminated clothing and wash before reuse, P362  
Collect spillate, P391  
Get medical advice/attention if you feel unwell, P314

**Storage:** Store locked up.

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

## Classification System

**NFPA ratings (scale 0-4):**



**HMIS ratings (scale 0-4):**

HEALTH	2	Health = 2
FIRE	1	Fire = 1
PHYSICAL HAZARD	0	Reactivity = 0

**Results of PBT Assessment:** Not Applicable

**Results of vPvB Assessment:** Not Applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Dangerous Component(s)	CAS No.	% wt/wt
Diglycidyl ether of bisphenol A homopolymer	25085-99-8	75-100%

## SECTION 4: FIRST AID MEASURES

**General Information:** Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

**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.



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<b>Eye Contact:</b>	If in eyes: Rinse opened eye for several minutes under running water. Then consult a physician.
<b>Skin Contact:</b>	In skin irritation continues, consult a doctor.
<b>Ingestion:</b>	If swallowed: Seek medical treatment.
<b>Most important symptoms and effects, both acute and delayed:</b>	No further relevant information available.
<b>Indication of any immediate medical attention and special treatment needed:</b>	No further relevant information available.

## SECTION 5: FIRE-FIGHTING MEASURES

### MEANS OF EXTINCTION

<b>Suitable Extinguishing Media:</b>	CO <sub>2</sub> , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
<b>Special hazards arising from the substance or mixture:</b>	No further relevant information available.
<b>Protection of Firefighters:</b>	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

<b>Personal Precautions, Protective Equipment &amp; Emergency Procedures:</b>	Wear protective equipment. Keep unprotected persons away.
<b>Environmental Precautions:</b>	Inform respective authorities in case of seepage into water course or sewage system.
<b>Methods and Material for Containment and Clean up:</b>	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
<b>Reference to other sections:</b>	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

<b>Precautions for Safe Handling:</b>	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.
<b>Information about Protection against Explosions and Fires:</b>	No special measures required.



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**Storage:** Store in a cool dry location. Store away from incompatible materials. Keep receptacle tightly sealed.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

### Control Parameters

**Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### Exposure Controls

#### 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.

**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

<b>Appearance:</b>	Liquid
<b>Color:</b>	Grey
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	Not determined
<b>pH value:</b>	Not determined
<b>Melting Point / Melting Range:</b>	Undetermined
<b>Boiling Point / Boiling Range:</b>	Undetermined
<b>Flash Point:</b>	>94°C (>201°F)
<b>Flammability (solid, gaseous):</b>	Not applicable
<b>Decomposition Temperature:</b>	Not determined
<b>Auto Igniting:</b>	Product is not self-igniting.
<b>Danger of Explosion:</b>	Product does not present an explosion hazard.
<b>Explosion Limit – Lower:</b>	Not determined



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<b>Explosion Limit – Upper:</b>	Not determined
<b>Vapor Pressure:</b>	Not determined
<b>Density at 20°C (68°F):</b>	1.132 g/cm <sup>3</sup> (9.447 lbs/gal)
<b>Relative Density:</b>	Not determined
<b>Vapor Density:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Partition Coefficient: n-Octanol/Water:</b>	Not determined
<b>Viscosity, Dynamic:</b>	Not determined
<b>Viscosity, Kinematic:</b>	Not determined
<b>Organic Solvents:</b>	0.0%
<b>Solids Content:</b>	100.0%
<b>Other information:</b>	No further relevant information available
<b>Volatile Organic Compounds:</b>	0

## SECTION 10: STABILITY AND REACTIVITY

### 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:

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



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**Primary Irritant Effect  
On the Skin:**

No irritant effect known.

**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: Harmful, Irritant

**Carcinogenic Categories**

**IARC (Int'l Agency for  
Research on Cancer):**

13463-67-7  
Titanium dioxide

**NTP (National Toxicology  
Program):**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety  
& Health Administration):**

None of the ingredients is 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  
Water hazard class 2 (self-assessment): Hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to aquatic organisms.

**PBT Assessment:**

Not Applicable

**vPvB Assessment:**

Not Applicable

**Other Adverse Effects:**

No further relevant information available.



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## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

**Recommendation:** Do not allow uncured 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. Cured product is inert and may be handled as general construction waste.

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

## SECTION 14: TRANSPORT INFORMATION

### UN-Number

**IMDG:** UN3082

**IATA:** Not Regulated

### UN Proper Shipping Name

**IMDG:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin), MARINE POLLUTANT

**IATA** Not Regulated

### Transport Hazard Class(es)

**DOT Class:** Not Regulated

**ADR Class** Not Regulated

**IMDG Class:** 9, Miscellaneous dangerous substances and articles

**IATA Class:** Not Regulated

**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).

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



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**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

## SECTION 15: REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**SARA**

**Section 355 (Extremely Hazardous Substances):**

None of the ingredients are listed.

**Section 313 (Specific toxic chemical listings):**

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. If so, the chemicals are listed:

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**CA Proposition 65:**

This product contains the following Proposition 65 chemicals:

Chemical Name: Titanium dioxide, Cas No. 13463-67-7, CA Prop 65: 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%

**Carcinogenic Categories**

**EPA (Environmental Protection Agency):**

None of the ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH):**

13463-67-7, Titanium dioxide





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**MAK (German Maximum Workplace Concentration):** 13463-67-7, Titanium dioxide

**NIOSH-Ca (National Institute for Occupational Safety and Health):** 13463-67-7, Titanium dioxide

## National Regulations

**Water Hazard Class:** Water hazard class 2 (self-assessment): Hazardous for water.

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

## SECTION 16: OTHER INFORMATION

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

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