



Safety Data Sheet

Date Revised: 02/26/2020

Supersedes: 7/22/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® Bonding Adhesive / Component A

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

Emergency Phone #: CHEM-TEL 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

Label Elements/Hazard Pictograms:



Signal Word: Warning

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: 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

Response: If in eyes: Rinse cautiously with water for several minutes, P351. Remove contact lenses, if present and easy to do. Continue rinsing,



Safety Data Sheet

Date Revised: 02/26/2020

Supersedes: 7/22/2015

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.

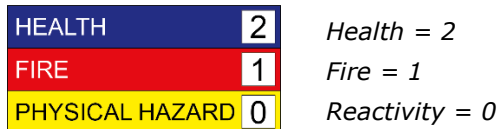
Disposal: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Classification System

NFPA ratings (scale 0-4):



HMIS ratings (scale 0-4):



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.



Safety Data Sheet

Date Revised: 02/26/2020

Supersedes: 7/22/2015

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

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). Dispose contaminated material as waste according to item 13. 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 measures required.



Safety Data Sheet

Date Revised: 02/26/2020

Supersedes: 7/22/2015

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

Appearance:	Liquid
Color:	Grey
Odor:	Mild
Odor Threshold:	Not determined
pH value:	Not determined
Melting Point / Melting Range:	Undetermined
Boiling Point / Boiling Range:	Undetermined
Flash Point:	>94°C (>201°F)
Flammability (solid, gaseous):	Not applicable
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



Safety Data Sheet

Date Revised: 02/26/2020

Supersedes: 7/22/2015

Explosion Limit – Upper:	Not determined
Vapor Pressure:	Not determined
Density at 20°C (68°F):	1.132 g/cm ³ (9.447 lbs/gal)
Relative Density:	Not determined
Vapor Density:	Not determined
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:	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:

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



Safety Data Sheet

Date Revised: 02/26/2020

Supersedes: 7/22/2015

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.



Safety Data Sheet

Date Revised: 02/26/2020

Supersedes: 7/22/2015

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.



Safety Data Sheet

Date Revised: 02/26/2020

Supersedes: 7/22/2015

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 Exceeded 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



Safety Data Sheet

Date Revised: 02/26/2020

Supersedes: 7/22/2015

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

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.