



Safety Data Sheet

Date Revised: 06/21/2018

Supersedes: 09/11/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® HP Anchor Gel / Component A

Synonyms: Not Applicable

Product Use: Rapid setting all weather adhesive

Restrictions on Use: Use with HP Anchor 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: Flammable Liquid, Category 2
Carcinogenicity, Category 1A
Skin Irritation, Category 2
Eye Irritation, Category 2A
Skin Sensitization, Category 1
STOT Single Exposure, Category 3

Label Elements/Hazard Pictograms:



Signal Word: Danger

Hazard Statements: H225 Highly flammable liquid and vapor
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H350 May cause cancer

Precautionary Statements/Prevention: P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.



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Response: If on SKIN (or Hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If in EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: Store locked up.

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

Classification System

NFPA ratings (scale 0-4):



PBT Assessment: Not Applicable

vPvB Assessment: Not Applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Dangerous Components	CAS No.	% wt/wt
Quartz (SiO ₂)	14808-60-7	25-50
Methyl methacrylate	80-62-6	25-50
Hexamethylene diacrylate	13048-33-4	10-25

SECTION 4: FIRST AID MEASURES

Inhalation: If inhaled: Supply fresh air and 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: 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.



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SECTION 5: FIRE-FIGHTING MEASURES

MEANS OF EXTINCTION

Suitable Extinguishing Media: CO₂, sand, extinguishing powder. Do NOT use water.

For Safety Reason Unsuitable Extinguishing Agents: Water

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: Prevent seepage into sewage system, work pits and cellars.

Methods and Material for Containment and Clean up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Do not flush with water or aqueous cleansing agents. 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: Keep ignition sources away – Do not smoke. Protect against electrostatic charges.

Storage: Store in a cool location. Keep receptacle tightly sealed. Store in cool, dry conditions in well-sealed receptacles.

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:

14808-60-7 Quartz (SiO₂) – Respirable (<6 micron) fraction for product is 0.1%

PEL: TWA: 0.050 mg/m³



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AL: 0.025 mg/m³ (Actionable Level)

REL: Long-term value: 0.05* mg/m³
*respirable dust**
** Not anticipated to be in a form capable of being respirable unless ground as a hardened material.

TLV: Long-term value: 0.025* mg/m³
*as respirable fraction**
** Not anticipated to be in a form capable of being respirable unless ground as a hardened material.

80-62-6 Methyl methacrylate

PEL: Long-term value: 410 mg/m³, 100 ppm

REL: Long-term value: 410 mg/m³, 100 ppm

TLV: Short-term value: 410 mg/m³, 100 ppm
Long-term value: 205 mg/m³, 50 ppm
(SEN) NIC-DSEN

13048-33-4 Hexamethylene diacrylate

WEEL: Long-term value: 1 mg/m³ DSEN

PERSONAL PROTECTIVE EQUIPMENT (PPE)

General Protective and Hygienic Measures: 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.

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: Suitable respiratory protective device recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Liquid
Color:	Clear
Odor:	Distinctive
Odor Threshold:	Not determined
pH value:	Not Applicable
Melting Point / Melting Range:	Undetermined
Boiling Point / Boiling Range:	Undetermined
Flash Point:	18°C (64°F)
Flammability (solid, gaseous):	Not applicable



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Ignition temperature:	235°C (455°F)
Decomposition Temperature:	Not determined
Auto igniting:	Product is not self-igniting.
Danger of Explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible but not anticipated under normal usage conditions.
Explosion Limit – Lower:	2.1 Vol%
Explosion Limit – Upper:	12.5 Vol%
Vapor Pressure at 20°C (68°F):	47 hPa (35 mm Hg)
Density at 20°C (68°F):	1.64 g/cm ³ (13.686 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%
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

Primary Irritant Effect On the Skin:

May cause skin irritation.



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**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

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.

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 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.



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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

Carcinogenic Categories

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

14808-60-7 Quartz (SiO₂) 1
80-62-6 Methyl methacrylate 3

NTP (National Toxicology Program):

14808-60-7 Quartz (SiO₂) K

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.



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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.

PBT Assessment: Not Available

vPvB Assessment: Not Available

Other Adverse Effects: No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Recommendation: 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.

SECTION 14: TRANSPORT INFORMATION

UN Number

DOT, ADR, IMDG, IATA: UN1133

UN Proper Shipping Name

DOT: Adhesives
ADR: 1133 Adhesives
IMDG, IATA: ADHESIVES

Transport Hazard Class(es)

DOT Class, Label: 3 Flammable liquids, 3
ADR, IMDG, IATA Class, Label: 3 Flammable liquids, 3

Packing Group: II
DOT, ADR, IMDG, IATA

Environmental Hazards

Marine Pollutant: No

Special Precautions for User: Warning: Flammable liquids

Danger Code (Kemler): 339



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EMS Number: F-E, S-D

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not Applicable

Transport/Additional Information

ADR Excepted quantities (EQ):

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

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:

128

IMDG Limited quantities (LQ):

5L

IMDG Excepted quantities (EQ):

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation":

UN1133, Adhesives, 3, II

SECTION 15: REGULATORY INFORMATION

SARA

Section 355 (Extremely Hazardous Substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

80-62-6 Methyl methacrylate

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CA Proposition 65:

14808-60-7 Quartz (SiO₂)

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Carcinogenicity Categories

EPA:

80-62-6 Methyl methacrylate E, NL

TLV:

14808-60-7 Quartz (SiO₂) A2



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80-62-6 Methyl methacrylate A4

MAK (German Maximum Workplace Concentration): 14808-60-7 Quartz (SiO₂) 1

NIOSH-Ca (Nat'l Institute for Occupational Health & Safety): 14808-60-7 Quartz (SiO₂)

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
1	3	0	G, X

Disclaimer:

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