

# MATERIAL SAFETY DATA SHEET

FIVE STAR PRODUCTS, INC.

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EMERGENCY**  
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## SECTION I - Product Identification

## FIVE STAR® AC COAT

## SECTION II - Hazardous Ingredients/Identity Information

Components:	C.A.S. No.:	OSHA PEL:	ACGIH TLV:	Other Limits:
Hydraulic Cement	65997-15-1	5 mg/m <sup>3</sup> * 15 mg/m <sup>3</sup> **	10 mg/m <sup>3</sup> **	50 MPPCF
Acrylic Polymer	T/S	None	None	None
Ferrous Corrosion Inhibitor	T/S	Not Listed	Not Listed	None
Silicon Dioxide, Crystalline Silica, Silica Sand SiO <sub>2</sub>	C.A.S. No. 14808-60-7			

OSHA PEL (Permissible Exposure Limit): Exposure to airborne crystalline silica shall not exceed an 8-hour time-weighted limit as stated in MSHA Standards, Subpart D, Section 56.5001 on air quality specifically "Silica: Crystalline: Quartz (respirable) PEL - TWA = 0.1 mg/m<sup>3</sup> and 29 CFR 1910.1000 Table Z-1-A, Air Contaminants, specifically: Crystalline Quartz (Respirable) 10 mg/m<sup>3</sup> / %SiO<sub>2</sub>+2

ACGIH TLV (Threshold Limit Value): Crystalline Quartz TLV-TWA = 0.05 mg/m<sup>3</sup> (Respirable Dust). See Threshold Limit Value and Biological Exposure Indices for 1991-1992. American Conference of Governmental Industrial Hygienists.

Other Limits Recommended: National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration = 0.05 mg/m<sup>3</sup> (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour week.

\*Respirable Dust \*\*Total Dust

HMIS: Health = 2 Fire = 1 Reactivity = 1 Personal Protection = E

## SECTION III: - Physical/Chemical Characteristics

<u>Boiling Point (°F):</u>	N/A	<u>Specific Gravity (H<sub>2</sub>O = 1):</u>	2.7
<u>Vapor Pressure (mm Hg.):</u>	N/A	<u>Melting Point (°F):</u>	N/A
<u>Vapor Density: (AIR = 1):</u>	N/A	<u>Evaporation Rate:</u> (Butyl Acetate = 1)	None
<u>Solubility in Water:</u>	Negligible.	<u>Appearance and Odor:</u>	Gray, finely ground solid--no odor.

## SECTION IV - Fire and Explosion Hazard Data

Flash Point: N/D Flammable Limits: LEL: N/D UEL: N/D

Extinguishing Media: Dry chemical, carbon dioxide, water spray. Special Fire-Fighting Procedures: Use water spray to cool surfaces and prevent reignition. Do not use a solid stream of water. A solid stream of water directed at this material may create a potentially explosive airborne dust mixture. Unusual Fire and Explosion Hazards: Combustion may produce dense black smoke. Dusts at sufficient concentrations can form explosive mixtures with air. Explosion may occur when heated to 538°C (1000°F) or upon contact with cyanides.

## SECTION V - Reactivity Data

Stability: Unstable: ( X ) Stable: ( )

Conditions to Avoid: Avoid temperatures above 177°C(350°F), the onset of polymer decomposition. Heat and acids will cause release of NOx.

Incompatibility (Materials to Avoid): Strong acids, reducing materials, cyanides, organic matter, sulfites and metabisulfites. Hazardous Decomposition or Byproducts: Thermal decomposition may yield acrylic monomers and NOx. Hazardous Polymerization: May occur: ( ) Will not occur: ( X )

## SECTION VI - Health Hazard Data

Routes of Entry: Inhalation: Yes Skin: Yes Ingestion: Yes

Health Hazards (Acute and Chronic): Prolonged overexposure to Crystalline Free Silica Dust above the threshold limit may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury silicosis may result from breathing free silica. **Acute:** Wet cement, especially as an ingredient in plastic (unhardened) concrete, mortar or slurries, can dry the skin and cause alkali burns. Cement dust can irritate the eyes and upper respiratory system. Inhalation of monomer vapor from heated product can cause irritation of nose and throat, dizziness, headache and nausea. Ingestion of large amounts may cause nausea, vomiting, a bluish color to the skin and mucous membranes (as a result of methemoglobin production), convulsions and coma. **Chronic:** Cement dust can cause inflammation of the lining tissue in the interior of the nose and inflammation of the cornea. Chronic exposure to nitrites may cause headaches, visual problems and decreased blood pressure. Nitrites may react with secondary and tertiary amines to form nitrosamines, which are animal carcinogens. Carcinogenicity: NTP? Yes. "Known to be a human carcinogen." IARC Monographs? Yes. OSHA Regulated? No. IARC Group 1. "IARC states there is 'sufficient evidence' for the carcinogenicity of inhaled crystalline silica to humans." Signs and Symptoms of Exposure: May cause coughing, sneezing and nasal irritation.

May cause skin irritation, dryness, burns. Medical Conditions Aggravated by Exposure: Respiratory ailments. Emergency and First Aid Procedures: Remove to fresh air. Immediately flush eyes with plenty of water for at least 15 minutes. Wash exposed areas with water thoroughly after handling. If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Product may harden on contact with water. **See physician.**

"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."

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**SECTION VII - Precautions for Safe Handling and Use**

Steps To Be Taken in Case Material is Released or Spilled: Avoid breathing dust. Avoid creating additional dust. Vacuum or sweep, using methods that do not disperse dust. Emergency procedures are not required. Spills should be contained, solidified and placed in suitable containers for disposal in a RCRA licensed facility. Waste Disposal Method: Incinerate or bury in a RCRA licensed facility. This material contains an ingredient which is RCRA hazardous due to its properties. Precautions To Be Taken in Handling and Storing: Avoid all ignition sources. Avoid high concentrations of dust in air and accumulation of dust on surfaces. To prevent dust explosions, employ bonding and grounding for operations capable of generating static electricity. Protect all equipment from explosions by following the guidelines in NFPA-68 and NFPA-69. For electrical equipment, follow local codes and electrical classification NFPA-70 (the National Electrical Code), Class II, Division 2, Group G. Recommended storage temperature range is 34°F (1°C) - 120°F (49°C). Keep dry until used to preserve product utility. Avoid contact with eyes and skin. Wash thoroughly after handling. Other Precautions: None.

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**SECTION VIII - Control Measures**

Respiratory Protection: MSHA or NIOSH-approved respirator equipped with organic vapor cartridges and dust and mist filters. Ventilation: Local Exhaust: May be used if necessary (minimum capture velocity of 150 ft./min.). Mechanical (General): May be used if necessary. Special: None. Other: None. Protective Gloves: Barrier creams or impervious gloves to protect skin. Eye Protection: OSHA, MSHA or NIOSH-approved tight-fitting goggles or masks. Other Protective Clothing or Equipment: Impervious clothing to protect skin from burns. Eye wash fountains and safety showers should be available. Work/Hygienic Practices: Wash exposed skin thoroughly.

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**SECTION IX - Regulatory Information**

Emergency Planning and Community Right-to-Know (SARA Title 3): Section 311/312 categorizations (40CFR 370): This product contains a hazardous chemical under 29CFR 1910.1200, which is categorized as an immediate and delayed health hazard. Section 313 Information (40CFR 372): This product does not contain a chemical which is listed in Section 313 above de minimis concentrations.

SARA-313 Listed Chemicals: Ferrous Corrosion Inhibitor, CAS# T/S, No More Than 2%.

Transportation Classifications: U.S. D.O.T Hazard Class: Nonregulated.

Chemical Control Law Status: All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

CERCLA Information (40CFR 302.4): Does not contain a reportable quantity.