MATERIAL SAFETY DATA SHEET

FIVE STAR PRODUCTS, INC.

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FOR CHEMICAL **EMERGENCY** Call Chem-Tel 1-800-255-3924 24 hrs./7days per week **Outside US** 1-813-248-0585

SECTION I - Product Identification: FIVE STAR® FLUID GROUT 100, FIVE STAR® SPECIAL GROUT 110, FIVE STAR® SPECIAL GROUT 120, FIVE STAR® SPECIAL GROUT 130, FIVE STAR® SPECIAL GROUT 150,

FIVE STAR® SPECIAL GROUT 150 CLARIFIER GROUT. FIVE STAR® SPECIAL GROUT 200. FIVE STAR® SPECIAL GROUT 120 UW PG, FIVE STAR® SPECIAL GROUT 550, FIVE STAR® FAST SET GROUT 100, **FIVE STAR® SPECIAL GROUT PA**

SECTION II - Hazardous Ingredients/Identity Information

C.A.S. No .: **OSHA PEL**: Components: ACGIH TLV: Other Limits: Hydraulic Cement 65997-15-1 5 mg/m3* 10 ma/m³ 15 mg/m^{3**}

Silicon Dioxide, Crystalline Silica, Silica Sand SiO₂ 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/m3 and 29 CFR 1910.1000 Table Z-1-A, Air Contaminants, specifically: Crystalline Quartz (Respirable) 10 mg/m3 / %SiO₂+2 ACGIH TLV (Threshold Limit Value): Crystalline Quartz TLV-TWA = 0.05 mg/m³ (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/m³ (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour

*Respirable Dust **Total Dust

HMIS: Health = 1 Fire = 0 Reactivity = 1 Personal Protection = E

SECTION III: - Physical/Chemical Characteristics

Specific Gravity (H₂O = 1): Boiling Point (°F): N/A 2.7 Vapor Pressure (mm Hg.): Melting Point (°F): N/A N/A Vapor Density: (AIR = 1): **Evaporation Rate:** None (Butyl Acetate = 1)

Solubility in Water: Negligible Appearance and Odor: Gray, white or brown, finely ground solid--no odor.

SECTION IV - Fire and Explosion Hazard Data

Flash Point: Noncombustible. Flammable Limits: LEL: N/A, UEL: N/A.

Extinguishing Media: N/A. Special Fire-Fighting Procedures: Not applicable. Unusual Fire and Explosion Hazards: None.

SECTION V - Reactivity Data

<u>Stability</u>: Unstable: () Stable: (X)
<u>Conditions to Avoid</u>: N/A. <u>Incompatibility (Materials to Avoid</u>): Strong acids. <u>Hazardous Decomposition or Byproducts</u>: None known. <u>Hazardous</u>

Polymerization: May occur: () Will not occur: (X)

SECTION VI - Health Hazard Data

Routes of Entry: <u>Inhalation</u>: Yes <u>Skin</u>: Yes <u>Ingestion</u>: Yes <u>Health Hazards (**Acute and Chronic**)</u>: 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. Chronic: Cement dust can cause inflammation of the lining tissue in the interior of the nose and inflammation of the cornea. <u>Carcinogenicity</u>: <u>NTP</u>? Yes. "Known to be a human carcinogen." <u>IARC Monographs</u>? Yes. <u>OSHA Regulated</u>? No. IARC Group 1. "IARC states there is 'sufficient evidence' for the carcinogenicity of inhaled crystalline silica to humans." <u>Signs and Symptoms of Exposure</u>: 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. Product may harden on contact with water. See physician.

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. Waste Disposal Method: May be disposed of in an unrestricted sanitary landfill. Precautions To Be Taken in Handling and Storing: Keep dry until used to preserve product utility. Avoid contact with eyes and skin. Wash thoroughly after handling. Other Precautions: None.

SECTION VIII - Control Measures

Respiratory Protection: Dust mask. OSHA, MSHA or NIOSH-approved respirator. Ventilation: Local Exhaust: May be used if necessary. Mechanical (General): May be used if necessary. Special: None. Other: None. Protective Gloves: Barrier creams or impervious gloves to protect skin. Eve Protection: OSHA, MSHA or NIOSH-approved tight-fitting goggles or masks. Other Protective Clothing or Equipment: Impervious clothing to protect skin from burns. Work/Hygienic Practices: Wash exposed skin thoroughly.

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