Michie Corp
Job #850

# MICHIE CORPORATION

## QUALITY CONTROL PLAN

## CORRECTIVE ACTION REQUEST

| | | | |
|---|---|---|---|
| Division: | 11 Repairs | Issued To: | Fred Schaaff - Severino TRK. |
| Procedure No: | 4.1.2 & 4.12.1 & NPCH 4.7.1 | Issued By: | Steve Gard - Michie Corp. |
| Item No. | Soundwall Post | Issued To: | |
| Date: | 7-18-13 | Respond By: | |

**DEFICIENCY.**

Top of Sound wall Posts Spalled No. 23 - 42

**RECOMMENED CORRECTIVE ACTION.**

**PROPOSED CORRECTIVE ACTION.**

See enclosed

| PROPOSED BY: | ACCEPTED BY: |
|---|---|
| X Steve Gard DATE 7-18-13 | X DATE |

173 BUXTON INDUSTRIAL DRIVE
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HENNIKER, N.H. 03242
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MICHIE CORPORATION

July 18, 2013

Customer: Severino Trucking Co., Inc.
Job No.: Newington-Dover, NH – 11238L

ATTN: Fred Schaaff

RE: Repair Procedure:

Product: Precast Concrete Sound Posts, No. 23 and No. 42.

Deficiency: Top of the two posts are spalled, edge and corner.

Proposed Corrective Action:

- Per Michie Corporation Quality Control Manual, Division 11 repairs, per section 4.1.2 and 4.1.2.1 and per NPCA (National Precast Concrete Association) Manual Chapter 4, section 4.7.1.
- Repair material , Five Star Products Structural Concrete V/O per N.H.D.O.T. Approved Products list, applied per manufacturer's placement guidelines.

  Saw cut around perimeter of damaged area, minimum ½" depth, to square edge (as not to allow repair mortar to come to feather edge).
  Remove all loose material within the area by mechanical means. Clean area with wire brush, saturate surface with clean potable water.
  Substrate should be saturated surface dry (SSD) with no standing water during repair product application.
  Mixing – application – curing per manufacturer's recommendations – see enclosed data sheets for Five Star Products Structural Concrete V/O.
  After recommended cure time, seal with water repellant sealer silane/siloxane.

Sincerely yours,

Steve Gard

Steve Gard
Precast Division Manager
Michie Corporation

# MICHIE CORPORATION

# STANDARD OPERATING PROCEDURE

**Division 11** **SOP No. 11-1**

**Title REPAIRS**

## 1.0 PURPOSE

1.1 The purpose of the procedure is to establish the means by which to repair defects caused by manufacturing, handling and/or shipping.

## 2.0 RESPONSIBILITIES

2.1 The Production Foremen are responsible for the proper repair of precast products.

2.2 The QC Supervisor is responsible for identifying the appropriate category of defects as defined below and for determining the acceptability of repairs made in accordance with this procedure.

## 3.0 REFERNCE DOCUMENTS

3.1 NPCA Quality Control Manual for Precast Plants, Section 4.7

## 4.0 SEQUENCE OF OPERATIONS

4.1 Repairs shall be made at the manufacturing plant prior to delivery for any defects caused during manufacturing or handling at the plant. Defects occurring during shipping shall be repaired at the project site. Units containing major defects shall be rejected unless a suitable repair is submitted and approved. Units containing non-repairable defects will not be considered for repair and shall be rejected. Defects are as defined below:

4.1.1. Surface Defects – Surface voids or bugholes that are less than 1½" in diameter and less than ½" deep are acceptable and do not require repair, except as noted in 4.1.4 below.

4.1.2. Minor/Cosmetic Defects – Spalls, honeycombing or surface voids or minor cracks which do not affect the ability of the unit to resist construction or service loads or reduce the life expectancy of the structure. Such defects shall be repaired in accordance with the following procedure:

4.1.2.1. Remove all loose material and cut the affected area back to sound concrete. This area shall be cleaned and moistened then filled with a commercial patch material. The patch material shall be mixed and applied in accordance with the manufacturer's instructions.

4.1.3. Major/Structural Defects - Spalls, honeycombing or surface voids which impair the ability of any unit to adequately resist construction or service loads or that may reduce the life expectancy of the structure. The Precast Division Manager shall submit all requests to appropriate authorities for the repair of major defects. Before and after photos shall be taken to document the damage and completed repair.

## 5.0 RECORDS

5.1 The following records shall be used to document this procedure:

5.1.1. Precast Concrete Damage and Discrepancy Repair Request including before and after photographs.

5.2 Records shall be maintained in accordance with the requirements of Division 13 – Records Control.

STANDARD | COMMENTARY

4.7.1 Repairing Minor Defects

Defects not impairing the functional use or expected life of a precast concrete product shall be considered minor defects. Minor defects may be repaired by any method that does not impair the product.

*It is assumed that qualified personnel will judge which defects are minor and which are major. The person making the judgment must be thoroughly familiar with the functional use of the product, including the environment in which the product will function. Behavior of concrete in the product and in that environment must be known. Repairs of minor defects are essentially cosmetic, (e.g., the product would behave as intended without the repairs)*

When honeycombed areas are to be repaired, all loose material shall be removed and the areas cut back into essentially horizontal or vertical planes to a depth at which coarse aggregate particles break under chipping rather than merely being dislodged. Proprietary repair materials shall be used in accordance with the manufacturer's instructions. If a proprietary repair material is not used, the area shall be saturated with water and, immediately prior to repair, the area shall be damp, but there shall be no excess water. A cement-sand grout or an approved bonding agent shall be applied to the chipped surfaces, followed immediately by consolidating an appropriate repair material into the cavity.

4.7.2 Repairing Major Defects

Defects in precast concrete products that impair the functional use or the expected life of products shall be considered major defects. Unless major defects are repaired the product shall be rejected. Major defects shall be evaluated by qualified personnel to determine if repairs are feasible and if so, to establish the repair procedure. Proper repairing procedures and curing shall be inspected.

*Repairs should be made as soon as feasible after the defect is noted so that differential shrinkage between the original concrete and the repair concrete is minimized. Concrete used in repairs of major defects should be essentially the same as the original concrete except that the repair concrete should contain less water. Also, the maximum size of aggregate should be as large as possible but not greater than one-half the minimum dimension of the repair. The procedures outlined in Sec. 4.7.1 can be used to repair the product. The repair concrete should become an integral part of the product with no delaminations or cracks.*

4.7.3 Inspection of Repairs

*Even minor repairs should be*

N.H. D.O.T
Approved Product

# FIVE STAR

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Cement Grouts | Epoxy Grouts | Concrete Repair and Overlays | Specialty Concrete Repair | Infrastructure and Commercial Concrete Repair | Coatings and Waterproofing | Adhesives

Five Star® Grout Five Star® High Strength Grout Five Star® Fluid Grout 100 Five Star® HTR Grout
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Five Star® Special Grout 150 Five Star® Special Grout 400 Five Star® Special Grout 550
Five Star® Cementitious Underwater Grout Five Star® Summerset Five Star® EZ-Cure Grout
Five Star® HP Epoxy Grout Five Star® DP Epoxy Grout Five Star® SP Epoxy Grout
Five Star® DP High Flow Epoxy Grout Five Star® DP Epoxy Grout PG Five Star® Rapid Epoxy Grout
Five Star® Fluid Epoxy Five Star® Pile Jacket Grout Five Star® Pile Jacket Grout HP
Five Star® Elastomeric Grout Five Star® Epoxy Novolac Grout
Five Star Structural Concrete® Five Star Structural Concrete® ES Five Star Structural Concrete® S300
Five Star Structural Concrete® V/O Five Star Structural Concrete® Gunite
Five Star Structural Concrete® Gunite S300 Five Star Structural Concrete® Gunite WP
Five Star Structural Concrete® Gunite WP/FS Five Star® MP Epoxy Patch Five Star® Rapid Repair
Five Star® Rapid Repair V/O Five Star® Epoxy Novolac Structural Concrete

Five Star® Epoxy Novolac Coating Five Star® Epoxy Novolac Coating Non-Sag
Five Star® Epoxy Novolac Waterborne Primer Five Star® Waterproofing
Five Star® LV Adhesive Five Star® Injection Gel Five Star® Bonding Adhesive
Five Star® RS Anchor Gel Five Star® Fluid Epoxy Five Star® HP Anchor Gel

**Concrete Repair and Overlays:**

# Five Star Structural Concrete® V/O

Vertical Repair

Five Star Structural Concrete V/O is a high strength, one component, permanent concrete repair material for vertical and overhead structural repairs. Five Star Structural Concrete V/O produces a repair which is dimensionally stable, develops an integral bond to the existing concrete, and restores structural integrity within hours of placement. Five Star Structural Concrete V/O has a very low chloride ion permeability. Moisture sensitive coatings can be applied in 8 to 24 hours.

Advantages

- Can be troweled vertically or overhead
- Cold weather installation
- Very low chloride ion permeability
- One product for thin and thick placements
- High three hour strength gains
- Resistance to sulfates
- Can be coated in 8 to 24 hours
- Adjustable working time

Uses

- Rapid repair of load bearing walls, ceilings and other structural members
- Rapid repairs during shutdown
- Marine and hydraulic structure repairs
- Cold weather repairs

Data Sheet | Spec Sheet | MSDS

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# STRUCTURAL CONCRETE V/O

Vertical/Overhead Permanent Repair

## PRODUCT DESCRIPTION

Five Star Structural Concrete® V/O is a high strength, rapid setting, one component, permanent concrete repair material for vertical and overhead structural repairs. Five Star Structural Concrete V/O produces a repair which is dimensionally stable, develops an integral bond to existing concrete, and restores structural integrity within hours of placement. Five Star Structural Concrete V/O has a very low chloride ion permeability. Moisture sensitive coatings can be applied in 8 to 24 hours.

## ADVANTAGES

- Can be troweled vertically or overhead
- Very low chloride ion permeability
- High three hour strength gains
- Can be coated in 8 to 24 hours
- Cold weather installation
- One product for thin and thick placement
- Excellent freeze/thaw resistance

## USES

- Rapid repair of load bearing walls, ceilings and other structural members
- Cold weather repairs
- Rapid repairs during shutdown
- Marine and hydraulic structure repairs

## PACKAGING AND YIELD

Five Star Structural Concrete V/O is packaged in heavy-duty polyethylene lined bags or plastic pails and is available in 50 lb (22.7 kg) units yielding approximately 0.44 cubic feet (12.5 liters) at maximum water.

## SHELF LIFE

One year (packaged in bags) or two years (packaged in pails) in original unopened packaging when stored in dry conditions; high relative humidity will reduce shelf life.

| TYPICAL PROPERTIES AT 70°F (21°C) | |
|---|---|
| **Compressive Strength**, ASTM C 109 | |
| 3 Hours | 2500 psi (17.2 MPa) |
| 1 Day | 3500 psi (24.2 MPa) |
| 7 Days | 4000 psi (27.6 MPa) |
| 28 Days | 5000 psi (34.5 MPa) |
| **Bond Strength**, ASTM C 882 | |
| 1 Days | 1500 psi (10.4 MPa) |
| 7 Days | 2200 psi (15.2 MPa) |
| **Length Change**, ASTM C 157 | |
| 28 Days Wet | +0.04% |
| 28 Days Dry | -0.05% |
| **Thermal Coefficient of Expansion**, ASTM C 531 | $5.0 \times 10^{-6}$ in/in/°F ($9.0 \times 10^{-6}$ mm/mm/°C) |
| **Chloride Ion Permeability**, ASTM C 1202 | |
| 3 Days | Very Low ( <1000 Coulombs) |
| 28 Days | Very Low (<1000 Coulombs) |
| Working Time at 70°F (21°C) | 15 minutes |

**The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result. Test methods are modified where applicable.*

## PLACEMENT GUIDELINES

1. **SURFACE PREPARATION:** All horizontal and vertical concrete surfaces in contact with Five Star Structural Concrete V/O shall be free of oil, grease, laitance, and other contaminants. All horizontal and vertical concrete surfaces must be clean, sound and rough to ensure a good bond. Remove all oxidation from exposed reinforcing steel and for additional protection coat reinforcing steel with Five Star® AC Coat. A perimeter edge and minimum depth of 1/4 inch (6 mm) should be provided for a durable repair. Featheredging is not desirable. Soak concrete surfaces prior to application with liberal quantities of potable water, leaving the concrete saturated and free of standing water. Surfaces shall be conditioned to between 35°F and 90°F (2°C and 32°C) at time of placement.
2. **MIXING:** Mix Five Star Structural Concrete V/O thoroughly for approximately three to four minutes to a uniform consistency with a mortar mixer (stationary barrel with moving blades). A drill and paddle mixer is acceptable for single bag mixes. Mix Five Star Structural Concrete V/O with 3 to 4 quarts potable water per 50 lb. unit. Working time is approximately 15 minutes at 70°F (21°C). Follow printed instructions on the package.
3. **PLACEMENT PROCEDURES:** Firmly work a small amount of Five Star Structural Concrete V/O into concrete surface with a trowel, taking care not to leave air pockets. Application is from one side of the repair to the other, filling the repair to the desired level. For multiple lift applications, contact Five Star's Engineering and Technical Service Center. Finish as necessary.
4. **POST-PLACEMENT PROCEDURES:** Five Star Structural Concrete V/O shall be kept wet for at least 30 minutes immediately after hardening. Protect from freezing until a compressive strength of at least 1000 psi (6.9 MPa) is reached.

***NOTE: PRIOR TO APPLICATION, READ ALL PRODUCT PACKAGING THOROUGHLY.*** *For more detailed placement procedures, refer to Design-A-Spec™ installation guidelines or call the Five Star Products Engineering and Technical Service Center at (800) 243-2206.*

## CONSIDERATIONS

- Never exceed the maximum water content stated on the package.
- Temperature of materials, equipment and surfaces must be between 35°F and 90°F (2°C and 32°C) at time of placement. For cold and hot weather placement, consult Design-A-Spec™.
- Substrate shall be free of frost and ice.

**CAUTION** Contains cementitious material and crystalline silica. International Agency for Research on Cancer has determined that there is sufficient evidence for the carcinogenicity of inhaled crystalline silica to humans. Take appropriate measures to avoid breathing dust. Avoid contact with eyes and contact with skin. In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Immediately call a physician. Wash skin thoroughly after handling. Keep product out of reach of children. **PRIOR TO USE, REFER TO MATERIAL SAFETY DATA SHEET.**

*For worldwide availability, additional product information and technical support, contact your local Five Star distributor, local sales representative, or you may call Five Star's Engineering and Technical Service Center at (800) 243-2206.*

**WARRANTY:** "FIVE STAR PRODUCTS INC. (FSP) PRODUCTS ARE MANUFACTURED TO BE FREE OF MANUFACTURING DEFECTS AND TO MEET FSP'S CURRENT PUBLISHED PHYSICAL PROPERTIES WHEN APPLIED IN ACCORDANCE WITH FSP'S DIRECTIONS AND TESTED IN ACCORDANCE WITH ASTM AND FSP STANDARDS. HOWEVER, SHOULD THERE BE DEFECTS OF MANUFACTURING OF ANY KIND, THE SOLE RIGHT OF THE USER WILL BE TO RETURN ALL MATERIALS ALLEGED TO BE DEFECTIVE, FREIGHT PREPAID TO FSP, FOR REPLACEMENT. THERE ARE NO OTHER WARRANTIES BY FSP OF ANY NATURE WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IN CONNECTION WITH THIS PRODUCT. FSP SHALL NOT BE LIABLE FOR DAMAGES OF ANY SORT, INCLUDING PUNITIVE, ACTUAL, REMOTE, OR CONSEQUENTIAL DAMAGES, RESULTING FROM ANY CLAIMS OF BREACH OF CONTRACT, BREACH OF ANY WARRANTY, WHETHER EXPRESSED OR IMPLIED. INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR FROM ANY OTHER CAUSE WHATSOEVER. FSP SHALL ALSO NOT BE RESPONSIBLE FOR USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT HELD BY OTHERS."

**Five Star Products, Inc.**
**Corporate Headquarters**
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http://www.fivestarproducts.com

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## FIVE STAR STRUCTURAL CONCRETE® V/O

## PERFORMANCE SPECIFICATION

A. The concrete repair material shall be a preblended, prepackaged cement-based mortar requiring only the addition of potable water. The material shall not contain any chlorides or lime other than amounts contained within the hydraulic composition. The manufacturer shall be ISO 9001 certified and have at least five years experience in the manufacture of cement-based concrete repair materials.

B. The concrete repair material shall meet all the following typical performance criteria when cured at 73°F (23°C):

| | | |
|---|---|---|
| 1. | Compressive Strength, ASTM C 109 | |
| | 3 Hours | 2000 psi (13.8 MPa) |
| | 1 Day | 3500 psi (24.2 MPa) |
| | 7 Days | 4000 psi (27.6 MPa) |
| 2. | Bond Strength, ASTM C 882 | |
| | 1 Day | 1500 psi (10.4 MPa) |
| 3. | Length Change, ASTM C 157 | |
| | 28 Days Wet | +0.04% |
| | 28 Days Dry | -0.05% |
| 4. | Chloride Ion Permeability, ASTM C 1202 | |
| | 3 Days | Very Low |
| 5. | Coefficient of Thermal Expansion, ASTM C 531 | $5.0 \times 10^{-6}$ in/in/°F ($9.0 \times 10^{-6}$ mm/mm/°C) |

*The data shown above reflect typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result. Test methods are modified where applicable.*

C. The concrete repair material shall be Five Star Structural Concrete V/O, as manufactured by Five Star Products, Inc., Fairfield, Connecticut.

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

# MATERIAL SAFETY DATA SHEET

FIVE STAR PRODUCTS, INC.
750 Commerce Drive
Fairfield, CT 06825
203-336-7900

**EMERGENCY TELEPHONE NO. 1-(800) 255-3924**

**Issue Date: 7/22/08 Supercedes: 7/20/04**

## SECTION I - Product Identification

**FIVE STAR STRUCTURAL CONCRETE®, FIVE STAR STRUCTURAL CONCRETE® V/O, FIVE STAR STRUCTURAL CONCRETE® GUNITE, FIVE STAR STRUCTURAL CONCRETE® UW HP, FIVE STAR STRUCTURAL CONCRETE® UW PG, FIVE STAR STRUCTURAL CONCRETE® HTR, FIVE STAR STRUCTURAL CONCRETE® ES, FIVE STAR STRUCTURAL CONCRETE® HTR SHOTCRETE, FIVE STAR STRUCTURAL CONCRETE® S300, FIVE STAR STRUCTURAL CONCRETE® GUNITE S300, FIVE STAR STRUCTURAL CONCRETE® S300 ECB, FIVE STAR STRUCTURAL CONCRETE® GUNITE WP, FIVE STAR STRUCTURAL CONCRETE® GUNITE WP/FS, FIVE STAR STRUCTURAL CONCRETE® S300 EXT, FIVE STAR STRUCTURAL CONCRETE®S300 QM, FIVE STAR STRUCTURAL CONCRETE® WHITE, FIVE STAR STRUCTURAL CONCRETE® ES SPECIAL, FIVE STAR STRUCTURAL CONCRETE® V/O SPECIAL**

## SECTION II - Hazardous Ingredients/Identity Information

| Components: | C.A.S. No.: | OSHA PEL: | ACGIH TLV: | Other Limits: |
|---|---|---|---|---|
| Hydraulic Cement | 65997-15-1 | 5 mg/m³*<br>15 mg/m³** | 10 mg/m³** | 50 MPPCF |

Silicon Dioxide, Crystalline Silica, Silica Sand $SiO_2$ 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 / %$SiO_2$+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 week.

*Respirable Dust **Total Dust HMIS: Health = 1 Fire = 0 Reactivity = 1 Personal Protection = E

## SECTION III: - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point (°F): | N/A | Specific Gravity ($H_2O$ = 1): | 2.7 |
| Vapor Pressure (mm Hg.): | N/A | Melting Point (°F): | N/A |
| Vapor Density: (AIR = 1): | N/A | Evaporation Rate: (Butyl Acetate = 1) | None |
| Solubility in Water: Negligible | | Appearance and Odor: | Gray, tan to brown or white, 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

**Stability: Unstable: ( ) Stable: ( X )** Conditions to Avoid: N/A. Incompatibility (Materials to Avoid): Strong acids. Hazardous Decomposition or Byproducts: None known. 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. **Chronic**: Cement dust can cause inflammation of the lining tissue in the interior of the nose and inflammation of the cornea. 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. 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. Eye 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.

"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."