SAFETY DATA SHEET

Farrell Vertical Patch

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT:	FARRELL VERTICAL PATCH	**PART NUMBER:**	0000000000
MANUFACTURER:	Farrell Equipment & Supply Co., Inc.	**ADDRESS:**	1510 N Hastings Way Eau Claire, Wisconsin 54703
TELEPHONE:	(715) 835-4334		
REVISION DATE:	07/2019		
PRODUCT TYPE:	Dry Packaged Cement-Based Product		

SECTION 2: HAZARDS IDENTIFICATION

The most immediate and likely hazards are burns from dust in the eye. When the product is mixed with water, it will form an alkaline solution, which can cause skin irritation. Dust from the product is irritating to breathe. Prolonged exposure to dust from the product is harmful to breathe because it will contain crystalline silica.

HAZARD STATEMENTS BASED ON CEMENT CONTENT

Danger!
H318: Causes serious eye damage.
H315: Causes skin irritation.

HAZARD STATEMENTS BASED ON CRYSTALLINE SILICA CONTENT

Danger!
H350: May cause cancer from inhaling dust.
H372: Causes damage to respiratory system (silicosis) through proloned or repeated exposure to inhaled dust.

This product has been evaluated according to GHS and 29CFR1910.1200, Appendix A. It is categorized as a Health Hazard Carcinogen Category 1A because it contains crystalline silica (quartz). It is categorized as a Health Hazard (serious eye damage/eye irritation - Category 1 and skin irritation - Category 2) because it contains Portland cement.

PRECAUTIONARY STATEMENTS BASED ON CEMENT CONTENT

P280: Wear skin and eye protection (Water resistant protective gloves. Goggles recommended to prevent any dust in eyes.)
P264: Wash any exposed skin thoroughly after handling material.
P362+P364: Take off contaminated clothing and wash it before reuse.
P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: If on skin, wash with plenty of water.
P332+P313: If skin irritation occurs, get medical attention.
P310: Immediately call a doctor if any eye irritation or discomfort develops.

PRECAUTIONARY STATEMENTS BASED ON CRYSTALLINE SILICA CONTENT

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dusts.
P270: Do not eat, drink, or smoke when using this product.
P280: Wear eye protection.
P308+313/314: If exposed or concerns or if you feel unwell, seek medical advice.
P501: Dispose of contents in accord with local regulations.

HMIS Health: 1 Flammability: 0 Reactivity: 0 Personal Protection:

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SECTION 3: HAZARDS COMPONENTS

CHEMICAL NAME	CAS NUMBER	% BY WEIGHT	CHEMICAL NAME	CAS NUMBER	% BY WEIGHT
1. Portland Cement	65997-15-1	20-40	5. Lime	1305-78-8	0-7
2. Calcium Aluminate Cement	65997-16-2	0-55	6. Calcium Carbonate	471-34-1	0-4
3. Silica Sand (as Quartz)	14808-60-7	60-75	7. Polymeric Binder	*	0-4
4. Aluminum Sulfate	10043-01-3	1-4			

* Specific chemical identities and concentrations withheld as trade secret. They are available upon request to health professionals, employees, and their designated representatives in accord with 29CFR1910.1200(i).

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SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with water for fifteen (15) minutes by holding eyelids apart and flushing with plenty of water. Seek immediate medical attention.
SKIN CONTACT: Promptly wash off with soap and water. Seek medical attention for any burns or persistent rashes.
INHALATION: If irritation develops, get fresh air.
INGESTION: Check with the Poison Control Center or a doctor. Do not induce vomiting unless directed to do so by medical personnel.
SIGNS AND SYMPTOMS: Symptoms of eye exposure to cement include irritation and burning and is caused when cement reacts with moisture to form an alkaline solution. Symptoms of skin irritation include dryness and burning caused when cement reacts with moisture exothermically to form an alkaline solution. Severe burns of the feet have resulted from cement getting into footweat. Some people may develop an allergic dermatitis (cement itch) from crhomate contaminants in Portland cement. Symptoms of breathing the dust include coughing, wheezing, and sore throat. Symptoms of repeated exposure to the dust include runny nose, chronic coughing, and impaired lung function. Symptoms of long term exposure to respirable crystalline silica dust include silicosis (lung scarring) and lung cancer.
NOTE TO PHYSICIAN: Treat according to symptoms. No known specific antedote.

SECTION 5: FIRE AND EXPLOSIVE HAZARDS

FLASHPOINT: Not applicable.
FIRE EXTINGUISHING MEDIA: Appropriate for surrounding materials. Product is not flammable.
SPECIAL FIRE FIGHTING PROCEDURES: None.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.
HAZARDOUS COMBUSTION PRODUCTS: None expected.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Contain and clean up. Avoid creating dust. Do not wash down drains or allow product to enter sewers. Product will harden upon contact with water.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid breathing dust. Wash hands after use. Do not eat, drink, or use tobacco products when handling chemical products. Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	OSHA PEL	OSHA 1989 PEL*	ACGIH TLV	NIOSH REL
1. Portland Cement	50 mppcf	15 mg/m^3 (Total) 5 mg/m^3 (Respirable)	1 mg/m^3 (Respirable)	10 mg/m^3 (Total) 5 mg/m^3 (Respirable)
2. Crystalline Silica (Quartz)	10 mg/m^3 (%silica+2)	0.1 mg/m^3 (Respirable) 0.3 mg/m^3 (Total)	0.025 mg/m^3 (Respirable)	0.05 mg/m^3
4. Lime (Calcium Oxide)	5 mg/m^3	5 mg/m^3	2 mg/m^3	2 mg/m^3
6. Aluminum Sulfate	2 mg/m^3	2 mg/m^3	2 mg/m^3	2 mg/m^3

*For states that adopted the 1989 PEL revisions (Minnesota, Oregon, Washington, California).
ENGINEERING CONTROLS: Avoid creating dust. Local exhaust ventilation is usually not required. If cutting or grinding material after it has hardened, water can be used as a dust suppressant.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory Protection: Usually not required when working with virgin product, but take measures to minimize dust exposure. May be required, depending on work done, for grinding or cutting material after it has hardened. For protection against irritation from dust or up to ten times the recommended exposure limits, use NIOSH-approved N-95 filtering facepieces or a half mash respirator equipped with N-96 filters. A more protective respirator (e.g. P100 filters or full face respirator) may be substituted.
Skin Protection: Avoid any skin contact, particularly when skin may be wet from sweat. Wear any water-impermeable gloves such as PVC gloves, particularly for long contact. Wear waterproof boots, high enough to prevent any cement from getting into them. Promptly wash off of skin and remove contaminated clothing.
Eye Protection: Safety glasses with side shields. If used in dusty or windy conditions, goggles are recommended.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: >2700°F
MELTING POINT: >2700°F
FLAMMABLE LIMITS: Not Applicable
EVAPORATION RATE: Not Applicable
EVAPORATION RATE (BUTYL ACETATE = 1): Not Applicable
SPECIFIC GRAVITY: 2.6 to 3.15
SOLUBILITY IN WATER: Slight
PH LEVEL: 11-13 (Cements in Water)
PRODUCT APPEARANCE: Gray or Gray-Brown Powder, May Contain Coarse Aggregate, No Significant Odor

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY: Will react with water, hydrating product, hardening it, and giving off heat. Avoid strong oxidizers, strong acids.
CONDITIONS AND MATERIALS TO AVOID: None known.
HAZARDOUS DECOMPOSITION PRODUCTS: Silica will dissolve in hydrofluoric acid and produce a corrosive gas: silicon tetrafluoride.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY: Not acutely toxic.
EYE CONTACT: Contact may result in eye damage. Portland and calcium aluminate cements are categorized as Health Hazard Serious Eye Damage/ Eye Irritation Category 1 and Serious Skin Category 2 because they form a strong alkaline solution in water.
SKIN CONTACT: Portland and calcium aluminate cements are caustic and abrasive to the skin. In contact with water or moisture, they can form alkaline hydroxides, which can cause burns that may not be felt immediately. Portland cement may contain trace amounts of hexavalent chromium. Hexavalent chromium can cause allergic contact dermatitis.
INHALATION: May damage the respiratory system. Respirable crystalline silica is categorized as a Health Hazard Carcinogen Category 1A (known to have carcinogenic potential for humans) and a Health Hazard Specific Target Organ Toxicity - Repeated Exposure Category 1. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. There is evidence that exposure to respirable silica or the disease silicosis is associated with an increased incidence of Scleroderma, tuberculosis, and kidney disorders.
OTHER HEALTH EFFECTS: Crystalline silica is listed as carcinogenic according to IARC. ACGIH classified crystalline silica as a suspected human carcinogen.
POLYMERIC BINDER: Toxicological testing has been conducted with similar products. Acute toxicity (Oral, Rat): LD_{50} >2000 mg/kg. Irritation: (Rabbit) Mildly irritating to skin. Not irritating to eyes.

SECTION 12: ECOLOGICAL INFORMATION

Product as a whole has not been tested but is expected to have low acute toxicity.

ECOTOXICITY: Not considered hazardous to the aquatic environment or ozone layer
SOIL MOBILITY: N/E
DEGRADABILITY: Not likely to biodegrade
BIOACCUMULATIVE POTENTIAL: Based on ingredients, not likely to bioaccumulate

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Do not sewer or dump on the ground. As provided, not a RCRA-regulated waste. Dispose of in accordance with federal, state, and local regulations.

SECTION 14: TRANSPORTATION INFORMATION

Not a DOT-regulated hazardous material. Not classified as dangerous goods for DOT, IATA, IMDG, TDG.

SECTION 15: REGULATORY INFORMATION

This product contains 0.1% or more of crystalline silica, regulated under California Proposition 65 as a chemical known to the state of California to cause cancer or reproductive effects. It is on the New Jersey Right to Know Hazardous Substance List. This product does not contain any chemicals regulated under CERCLA, SARA 302 EHS, SARA 311/312, SARA 313, or Hazardous Air Pollutants.

SECTION 16: OTHER INFORMATION

Additional information on the product is available at farrellequipment.com.

The information and recommendations contained herein are based on the data available to us and is believed to be correct. However, we make no guarantee or warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility and disclaim all liability for injury or harmful effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.

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