SAFETY DATA SHEET

Date Prepared: 09/03/2015
SDS No: SCC-F170FS

F170 SewerSeal Fast Set Corrosion Resistant Cement

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: F170 SewerSeal Fast Set Corrosion Resistant Cement
PRODUCT DESCRIPTION: SewerSeal Corrosion Resistant Cement Lining, Powder
PRODUCT CODE: F170FS
PRODUCT FORMULATION NAME: F170 SewerSeal Corrosion Resistant Cement Lining, Powder
CHEMICAL FAMILY: Inorganic Cement

MANUFACTURER
Sauereisen
160 Gamma Drive
Pittsburgh, PA 15238
Emergency Contact: John Kozak
Emergency Phone: (800)424-9300
Alternate Contact: Don Schubert
Customer Service: 412 963-0303
E-Mail: jakozak@sauereisen.com

24 HR. EMERGENCY TELEPHONE NUMBERS
Poison Control Center (Medical): 1-800-222-1222
CHEMTREC (US Transportation): 1-800-424-9300
CHEMTREC (Outside US): 1-703-527-3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS
Health:
- Acute Toxicity (Inhalation), Category 4
- Eye Irritation, Category 2B
- Skin Irritation, Category 2
- Target Organ Toxicity (Repeated exposure), Category 2
- Carcinogenicity, Category 1B

GHS LABEL
Exclamation mark
Health hazard

SIGNAL WORD: DANGER

HAZARD STATEMENTS
- H315: Causes skin irritation.
- H320: Causes eye irritation.
- H333: May be harmful if inhaled.
- H350: May cause cancer.
- H373: May cause damage to lungs or kidneys through prolonged or repeated exposure via inhalation.

PRECAUTIONARY STATEMENTS
Prevention:
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P270: Do not eat, drink or smoke when using this product.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash ... thoroughly after handling.
P273: Avoid release to the environment.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:
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/...
P314: Get medical advice/attention if you feel unwell.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P322: Specific measures (see ... on this label).
P362: Take off contaminated clothing.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER/doctor/...if you feel unwell.

Storage:
P405: Store locked up.

Disposal:
P501: Dispose of contents/container in accordance with local/national regulations.

POTENTIAL HEALTH EFFECTS
EYES: Contact may cause eye irritation.
SKIN: Itching or burning will occur with repeated or prolonged contact. May exacerbate existing skin conditions.
INHALATION: Dust or vapor irritating to eyes and respiratory tract.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
</tr>
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<tbody>
<tr>
<td>Silica, Crystalline</td>
<td>&lt; 75</td>
<td>14808-60-7</td>
</tr>
<tr>
<td>cement, alumina, chemicals</td>
<td>&lt; 40</td>
<td>65997-16-2</td>
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<tr>
<td>Clay</td>
<td>&lt; 5</td>
<td>66402-68-4</td>
</tr>
<tr>
<td>silica fume</td>
<td>&lt; 5</td>
<td>69012-64-2</td>
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4. FIRST AID MEASURES
EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
SKIN: Wash contact area thoroughly with soap and water. Remove contaminated clothing. Launder before reuse. Seek medical attention if erythema develops.
INGESTION: If swallowed, do not induce vomiting. Give large quantities of water. Seek medical attention immediately. Never give anything by mouth to an unconscious person. Advise physician of possible fluoride exposure.
INHALATION: If difficulty breathing, move to fresh at air once. Apply artificial respiration if breathing has stopped. Seek medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
EYES: Causes pain, redness and tearing.
SKIN: Contact causes skin irritation.
INHALATION: Headache, nausea, and irritation to nose and throat. Prolonged or repeated exposure may cause asthma.
CHRONIC EFFECTS: The adverse health effects-- silicosis, lung cancer, autoimmune and chronic kidney diseases, tuberculosis and non-malignant respiratory diseases-- are chronic effects.

Prolonged exposure to fluoride over years may produce an embrittlement and densification of bones and increase calcification of ligaments.

NOTES TO PHYSICIAN: Further treatment may be necessary. Contact local poison control center. Rinse mouth.
5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: NA = Not Applicable
FLAME PROPAGATION OR BURNING RATE OF SOLIDS: None
GENERAL HAZARD: NA = Not Applicable
EXTINGUISHING MEDIA: NA = Not Applicable
HAZARDOUS COMBUSTION PRODUCTS: NA = Not Applicable
EXPLOSION HAZARDS: Not sensitive to mechanical impact or static discharge
FIRE FIGHTING PROCEDURES: NA = Not Applicable
FIRE FIGHTING EQUIPMENT: NA = Not Applicable
FIRE EXPLOSION: NA = Not Applicable
SENSITIVE TO STATIC DISCHARGE: None
SENSITIVITY TO IMPACT: None
HAZARDOUS DECOMPOSITION PRODUCTS: NA = Not Applicable

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Clean-Up Procedure: Spill area may become slippery; use care to avoid falls. Flush spill area with plenty of water.

LARGE SPILL: For spill greater than 100 gallons; isolate, dike and store discharged material, if possible. Collect with dry sand, clay or other absorbent. Flushed cleaned areas with water. Observe Environmental regulations. Wear PPE - gloves, rubber boots, and safety glasses.

SPECIAL PROTECTIVE EQUIPMENT: Wear gloves, rubber boots, and safety glasses.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing.
For industrial use only!
Do not take internally.
May cause irritation.
Wash thoroughly after handling.

HANDLING: Wear protective safety glasses, gloves and protective clothing.

STORAGE: Store in a cool, dry place.
Keep container closed when not in use.
Keep away from food and drinking water.
Always mix well before using.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)</th>
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<tr>
<td><strong>EXPOSURE LIMITS</strong></td>
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<tr>
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<tr>
<td>Silica, Crystalline</td>
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PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses with side shields, chemical resistant goggles, or face shield. Contact lenses should not be
SKIN: Permeation resistant gloves (butyl rubber, nitrile rubber or poly vinyl alcohol). Please note that PVA degrades in water. Cover exposed skin as possible with appropriate clothing. If skin creams are used, keep area covered by cream to a minimum.

RESPIRATORY: This product contains encapsulated silica. By OSHA letter of interpretation, the silica is not considered respirable in either the cement paste form, or cured cement form. However, if the cured cement is polished, ground, or chipped during processing, handling, or use, the silica may be released as an airborne respirable particle. In these instances appropriate personal protective equipment and local ventilation controls must be employed.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: No appreciable odor.
ODOR THRESHOLD: Not Available
APPEARANCE: Powder
COLOR: Tan
pH: 11.5
PERCENT VOLATILE: NA = Not Applicable
FLASH POINT AND METHOD: NA = Not Applicable
FLAMMABLE LIMITS: 0 to 0
AUTOIGNITION TEMPERATURE: NA = Not Applicable
VAPOR PRESSURE: Vapor is water
VAPOR DENSITY: Same as water vapor.
SPECIFIC GRAVITY: 1.3
(VOC): 115

10. STABILITY AND REACTIVITY

REACTIVITY: Yes
HAZARDOUS POLYMERIZATION: No
STABILITY: Stable under normal conditions of use and storage.
HAZARDOUS DECOMPOSITION PRODUCTS: Silica will dissolve in hydrofluoric acid and produce a corrosive gas - Silicon tetrafluoride.
INCOMPATIBLE MATERIALS: Avoid contact with acids, and acid vapors.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY
- DERMAL LD$_{50}$: No data available.
- ORAL LD$_{50}$: No data available.
- INHALATION LC$_{50}$: No data available.

SERIOUS EYE DAMAGE/IRRITATION: Eye, Skin and Inhalation Irritant.
GERM CELL MUTAGENICITY: Not Available

CARCINOGENICITY
- IARC: Silica is listed as having sufficient evidence to be a carcinogen in humans and in experimental animals, for the carcinogenicity of quartz and cristobalite. The overall IARC evaluation was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (group 1).
- NTP: The National Toxicology Program, in its Ninth Annual report on Carcinogens, classified “silica, crystalline (respirable)” as a known human carcinogen.
- OSHA: Crystalline Silica (Quartz) is not regulated by the US Occupational Safety and Health Administration as a carcinogen.

NOTES:
Silica is listed by IARC and NTP as having sufficient evidence to be a carcinogen in humans and in experimental animals for the carcinogenicity of quartz and cristobalite. The overall IARC evaluation was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (group 1).

REPRODUCTIVE TOXICITY: Not Available

STOT-SINGLE EXPOSURE:

- Nephrotoxicity - Recent studies suggest that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of kidney disorders.

GENERAL COMMENTS:

ADDITIONAL INFORMATION: Crystalline Silica (Quartz)
- Silicosis - The major concern is silicosis caused by the inhalation of respirable crystalline silica dust. Silicosis can exist in several forms, chronic (or ordinary), accelerated, or acute.
- Scleroderma - There is evidence that exposure to respirable crystalline silica or silicosis is associated with incidence of scleroderma of the lungs.
- Tuberculosis - Individuals with silicosis are at risk to develop tuberculosis, if exposed to persons with tuberculosis.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Crystalline silica (quartz) is not known to be an environmental hazard.

AQUATIC TOXICITY (ACUTE): Sodium Silicate has low toxicity. TLM 96 hr in mosquitofish is 2,320 mg/L. High pH (alkalinity) of undiluted material is harmful to aquatic life.

96-HOUR LC₅₀: ≤ 5000

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Comply with federal, state and local regulations. If approved, flush with water to chemical sewer. For large quantities, neutralize with dilute acid and landfill solids or flush neutral liquid to sewer with plenty of water.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
- PROPER SHIPPING NAME: Not Regulated
- TECHNICAL NAME: NA = Not Applicable
- PRIMARY HAZARD CLASS/DIVISION: Not Regulated

ROAD AND RAIL (ADR/RID)
- PROPER SHIPPING NAME: Not Regulated

AIR (ICAO/IATA)
- SHIPPING NAME: Not Regulated

VESSEL (IMO/IMDG)
- SHIPPING NAME: Not Regulated

CANADA TRANSPORT OF DANGEROUS GOODS
- SHIPPING NAME: Not Regulated

15. REGULATORY INFORMATION

UNITED STATES
- DOT LABEL SYMBOL AND HAZARD CLASSIFICATION
Toxic

R36/37/38: Irritating to eyes, respiratory system and skin.
R40: Limited evidence of a carcinogenic effect.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
S22: Do not breathe dust.
S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)


FIRE: No  PRESSURE GENERATING: No  REACTIVITY: No  ACUTE: No  CHRONIC: No

313 REPORTABLE INGREDIENTS: There are no listed chemicals above detection limits in this compound.

TITLE III NOTES: None above detection limits.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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TSCA STATUS: Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

REGULATIONS

STATE REGULATIONS:

Massachusetts Toxic Use Reduction Act- Silica, Crystalline (respirable size, <10microns) is toxic for purposes of the Massachusetts Toxic Use Reduction Act

Pennsylvania Worker and Community Right to Know Act- Quartz is a hazardous substance under the act, but it is not a special hazardous substance or an environmental hazardous substance.

California Inhalation Reference Exposure Level (REL)- California established a chronic REL of 3 ug for silica crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

CALIFORNIA PROPOSITION 65: Known to the State of California to cause cancer and reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Act of 1986".

It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low level prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of the hazardous / carcinogenic ingredients listed elsewhere in the SDS comply with State of California regulations.

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION
Toxic

R36/37/38: Irritating to eyes, respiratory system and skin.
R40: Limited evidence of a carcinogenic effect.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
S22: Do not breathe dust.
S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.

WHMIS CLASS: Class D, Division 2, Subdivision A: Materials cause other toxic effects, very toxic material.

DOMESTIC SUBSTANCE LIST (INVENTORY): Components included on inventory

16. OTHER INFORMATION

PREPARED BY: John A Kozak      Date Prepared: 09/03/2015

HMIS RATING

| HEALTH   | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | E |