## SECTION 1: IDENTIFICATION

**Product Identifier**
- **Product Form:** Mixture
- **Product Name:** Concrete Cloth

**Intended Use of the Product**
Concrete Cloth is used for erosion protection of ditches and slopes.

**Name, Address, and Telephone of the Responsible Party**
- **Company:** Milliken Infrastructure Solutions, LLC
  - 920 Milliken Road
  - Spartanburg, SC 29304
  - 1-864-503-1940 (M-F, 8-5, EST)
  - concretecloth@milliken.com
  - concretecloth.milliken.com

- **Manufacturer:** Milliken Infrastructure Solutions, LLC
  - 1300 4th Avenue
  - LaGrange, GA 30240
  - 1-864-503-1940 (M-F, 8-5, EST)

**Emergency Telephone Number**
- **Emergency Number:** CHEMTREC 1-800-424-9300

## SECTION 2: HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture**
- **Classification (GHS-US):**
  - Eye Irrit. 2A H319

**Label Elements**
- **GHS-US Labeling**
  - Signal Word (GHS-US): Warning
  - Hazard Pictograms (GHS-US): GHS07

**Hazard Statements (GHS-US):**
- H319 - Causes serious eye irritation

**Precautionary Statements (GHS-US):**
- P264 - Wash hands, forearms, and exposed areas thoroughly after handling
- P280 - Wear protective clothing, protective gloves, eye protection
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337+P313 - If eye irritation persists: Get medical advice/attention

**Other Hazards**
- Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.
- In contact with water and alkaline solution occurs (pH 11 - 11.5). The concrete mix reacts chemically and hardens when mixed with water. The reaction is exothermic resulting in a temperature rise. In large quantities the temperature may increase enough to cause a risk of burns.

**Unknown Acute Toxicity (GHS-US):** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substances</th>
<th>Product identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement, alumina, chemicals</td>
<td>(CAS No) 65997-16-2</td>
<td>71 - 90</td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Polyvinyl chloride</td>
<td>(CAS No) 9002-86-2</td>
<td>1.9 - 5.4</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

**Description of First Aid Measures**
- **General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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- **Inhalation:** When symptoms occur: go into open air and ventilate suspected area.
- **Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting.

**Most Important Symptoms and Effects Both Acute and Delayed**

- **General:** Causes serious eye irritation.
- **Inhalation:** May cause respiratory irritation.
- **Skin Contact:** May cause skin irritation.
- **Eye Contact:** Causes serious eye irritation.
- **Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** The chronic effects of this substance are unknown.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

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**SECTION 5: FIRE-FIGHTING MEASURES**

- **Extinguishing Media**
  - Use extinguishing media appropriate for surrounding fire.
- **Unsuitable Extinguishing Media**
  - Use of heavy stream of water may spread fire.
- **Special Hazards Arising From the Substance or Mixture**
  - **Fire Hazard:** Under fire conditions, decomposition may produce hazardous fumes.
  - **Explosion Hazard:** Product is not explosive.
  - **Reactivity:** Hazardous reactions will not occur under normal conditions.
- **Advice for Firefighters**
  - Exercise caution when fighting any chemical fire.
  - Do not enter fire area without proper protective equipment, including respiratory protection.

**Reference to Other Sections**

Refer to section 9 for flammability properties.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- **Personal Precautions, Protective Equipment and Emergency Procedures**
  - **General Measures:** Handle in accordance with good industrial hygiene and safety practice.
  - **For Non-Emergency Personnel**
    - **Protective Equipment:** Use appropriate personal protection equipment (PPE).
    - **Emergency Procedures:** Evacuate unnecessary personnel.
  - **For Emergency Personnel**
    - **Protective Equipment:** Use appropriate personal protection equipment (PPE).
    - **Emergency Procedures:** Ventilate area.
- **Environmental Precautions**
  - Prevent entry to sewers and public waters.
- **Methods and Material for Containment and Cleaning Up**
  - **For Containment:** Contain and collect as any solid.
  - **Methods for Cleaning Up:** Recover the spillage in a dry state if possible. Minimize generation of airborne dust. The product can be slurried by the addition of water but will subsequently set as a hard material. Keep children away from the clean-up operation.

**Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.
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SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Polyvinylchloride (PVC) dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Cement may cause dry skin, discomfort, irritation, severe burns, and dermatitis. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. A skin exposure may be hazardous even if there is no pain or discomfort. Cement is capable of causing dermatitis by irritation and allergy. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Irritant dermatitis is caused by the physical properties of cement including alkalinity and abrasion. Allergic contact dermatitis is caused by sensitization to hexavalent chromium (chromate) present in cement. The reaction can range from a mild rash to severe skin ulcers. Persons already sensitized may react to the first contact with cement. Others may develop allergic dermatitis after years of repeated contact with cement.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: The material should be stored in an environment that is water-proof, clean and protected from contamination, dry (internal condensation minimized). Packaged products must be stored in unopened bags, clear of the ground in cool dry conditions and protected from excessive draught.

Incompatible Materials: Contact with water or water vapor during storage will hydrate the product and affect its performance.

Specific End Use(s): Concrete Cloth is used for erosion protection of ditches and slopes.

SECTION 8: EXPOSURE CONTROLS/PERSOAL PROTECTION

Control Parameters

<table>
<thead>
<tr>
<th>Material</th>
<th>USA OSHA OSHA PEL (TWA) (mg/m³)</th>
<th>USA OSHA OSHA PEL (Ceiling) (mg/m³)</th>
<th>Polyvinyl chloride (9002-86-2) OSHA PEL (TWA) (mg/m³)</th>
<th>Polyvinyl chloride (9002-86-2) OSHA PEL (Ceiling) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Cloth USA OSHA</td>
<td>5 mg/m³ respirable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyvinyl chloride (9002-86-2) USA ACGIH</td>
<td>1 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>British Columbia OEL TWA (mg/m³)</td>
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<td></td>
</tr>
<tr>
<td>Manitoba OEL TWA (mg/m³)</td>
<td>1 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador OEL TWA (mg/m³)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nova Scotia OEL TWA (mg/m³)</td>
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<td></td>
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<td></td>
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<tr>
<td>Ontario OEL TWA (mg/m³)</td>
<td>1 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prince Edward Island OEL TWA (mg/m³)</td>
<td>1 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Avoid dust production. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.


Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Not available

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.
Concrete Cloth

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Wet Cement: 11-11.5 (10% in water)</td>
</tr>
<tr>
<td>Relative Evaporation Rate (butylacetate=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
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</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
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</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
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</tr>
<tr>
<td>Flammability (solid, gas)</td>
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<tr>
<td>Lower Flammable Limit</td>
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<td>Vapor Pressure</td>
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<td>Relative Vapor Density at 20 °C</td>
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<tr>
<td>Relative Density</td>
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<tr>
<td>Specific Gravity</td>
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<tr>
<td>Solubility</td>
<td>Not available</td>
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<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Mechanical Impact</td>
<td>Not expected to present an explosion hazard due to mechanical impact</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Static Discharge</td>
<td>Not expected to present an explosion hazard due to static discharge</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.
Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Avoid creating or spreading dust.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Causes serious eye irritation.
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not available
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: May cause respiratory irritation.
Symptoms/Injuries After Skin Contact: May cause skin irritation.
Symptoms/Injuries After Eye Contact: Causes serious eye irritation.
Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: The chronic effects of this substance are unknown.
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**Information on Toxicological Effects - Ingredient(s)**

| LD50 and LC50 Data: |  
|---------------------|---
| Polyvinyl chloride (9002-86-2) | IARC Group 3 |

**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity** Not classified

**Persistence and Degradability**

Concrete Cloth

Persistence and Degradability Not established.

**Bioaccumulative Potential**

Concrete Cloth

Bioaccumulative Potential Not established.

**Mobility in Soil** After hydration (a few hours or days in moist conditions) the product is stable in soil and in water, with negligible mobility of its constituents.

**Other Adverse Effects**

Other Information: Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations**: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Waste Treatment Methods**: Dispose of empty packages or surplus Concrete Canvas to a place authorized to accept builders’ waste. Keep out of the reach of children.

**SECTION 14: TRANSPORT INFORMATION**

14.1 In Accordance with DOT Not regulated for transport

14.2 In Accordance with IMDG Not regulated for transport

14.3 In Accordance with IATA Not regulated for transport

14.4 In Accordance with TDG Not regulated for transport

**SECTION 15: REGULATORY INFORMATION**

**US Federal Regulations**

**Concrete Cloth**

| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

Polyvinyl chloride (9002-86-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cement, alumina, chemicals (65997-16-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Canadian Regulations**

**Concrete Cloth**

| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

Polyvinyl chloride (9002-86-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
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Cement, alumina, chemicals (65997-16-2)
Listed on the Canadian DSL (Domestic Substances List) inventory.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION
Revision date : 07/31/2014
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Eye Irrit. 2A</th>
<th>Serious eye damage/eye irritation Category 2A</th>
</tr>
</thead>
<tbody>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

Party Responsible for the Preparation of This Document
Milliken Infrastructure Solutions
1-855-655-6750

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.