



# Concrete Cloth Safety Data Sheet

## Concrete Cloth Safety Data Sheet SDS

### 1. Product and Company Information

Product Name: Concrete Cloth

Intended Use: Slope protection, hydraulic engineering, anti-seepage projects, and other construction applications.

Manufacturer/Supplier: Dawnview Geosynthetics Co., Ltd.

Emergency Tel: +86 17515382215

Email: [info@DawnviewGeo.com](mailto:info@DawnviewGeo.com)

Address: Middle Section of Longji Street, East of Longteng Road, Taian High-Tech Zone, Shandong, China

### 2. Hazards Identification

#### •Physical Hazards:

–Unhardened material may generate dust during cutting or friction; hardened edges

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may be sharp.

–Alkaline hydrates (pH 12-13) formed during curing may cause skin/eye irritation.

•Health Hazards:

–Inhalation: Dust may irritate respiratory tract; prolonged exposure may lead to silicosis.

–Skin Contact: Cement components in unhardened material may cause dryness or chemical burns.

–Eye Contact: Dust or alkaline liquids may cause severe irritation or corneal damage.

•Environmental Hazards:

–Improper disposal may alter soil/water pH.

## 3. Composition/Information on Ingredients

Component	Concentration (%)	CAS No.	Hazard Classification
Calcium Aluminate Cement ( $\text{Al}_2\text{O}_3$ , $\text{CaO}$ , $\text{SiO}_2$ )	15-30	65997-15-1	Irritant (Skin/Eyes)
Polyethylene/Polypropylene Fiber	40-50	9002-88-4	Non-hazardous (solid state)
Quartz Sand ( $\text{SiO}_2$ )	20-30	14808-60-7	Prolonged inhalation causes lung disease

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Component	Concentration (%)	CAS No.	Hazard Classification
PVC Waterproof Layer	5-10	9002-86-2	Releases hydrogen chloride gas when burned

## 4. First-Aid Measures

- Skin Contact: Wash immediately with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
- Eye Contact: Rinse with flowing water for  $\geq 15$  minutes, lifting eyelids. Seek immediate medical help.
- Inhalation: Move to fresh air. Administer oxygen if breathing is difficult.
- Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical observation.

## 5. Fire-Fighting Measures

- Extinguishing Media: Dry powder, CO<sub>2</sub>, sand.
- Special Hazards: PVC layer releases hydrogen chloride (HCl) gas at high temperatures. Use self-contained breathing apparatus (SCBA).

- Protection for Firefighters: Full-body protective gear and gas masks.

## 6. Accidental Release Measures

- Personal Protection: N95 dust mask, rubber gloves, goggles.
- Cleanup Methods:
  - Unhardened material: Collect with non-sparking tools into sealed containers.
  - Hardened debris: Crush mechanically and dispose as construction waste.
- Environmental Precautions: Prevent dust from entering drains or natural water bodies.

## 7. Handling and Storage

- Handling Precautions:
  - Ensure ventilation during use; minimize dust generation.
  - Use wet-cutting or local exhaust during cutting.
- Storage Conditions:

–Store in dry, cool areas away from sunlight or heat.

–Stack height ≤5 layers to avoid deformation.

## 8. Exposure Controls/Personal Protection

Exposure Route	Protective Measures
Respiratory	N95 mask or powered air-purifying respirator in dusty environments.
Skin	Wear long-sleeved workwear and rubber gloves. Avoid direct contact with unhardened material.
Eyes	Chemical goggles or face shields.
Other	Wash exposed areas thoroughly after work. Prohibit eating or smoking.

## 9. Physical and Chemical Properties

- Appearance: Gray/white roll (unhardened); concrete gray when cured.
- pH: 12-13 (cured aqueous solution).
- Density: 1.5-2.0 g/cm<sup>3</sup> (cured).

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- Volatility: Non-volatile.
- Water Solubility: Insoluble but reacts with water during hydration.

### 10. Stability and Reactivity

- Stability: Stable under normal conditions. Avoid contact with strong acids (may release CO<sub>2</sub>).
- Hazardous Reactions: PVC decomposes at >200°C, releasing HCl gas.
- Incompatible Materials: Concentrated sulfuric acid, hydrofluoric acid.

### 11. Toxicological Information

- Acute Toxicity: Low toxicity; dust may irritate respiratory tract.
- Chronic Effects: Risk of silicosis from quartz sand exposure.
- Ecotoxicity: Unhardened material may harm soil microbiota.

### 12. Ecological Information

- Mobility: Dust may spread via air; no mobility after curing.
- Degradability: Non-biodegradable. Dispose as industrial solid waste.

### 13. Disposal Considerations

- Waste Disposal:
  - Cured material: Landfill as construction waste.
  - Unhardened material: Seal and send to professional waste facilities.
- Contaminated Packaging: Clean before recycling or incinerate.

### 14. Transport Information

- UN No.: Non-hazardous.
- Labels: "Keep Dry" and "Avoid Compression."

- Special Requirements: Waterproof covering for long-distance transport.

## 15. Regulatory Information

- China: Complies with GB 13690 (General Rules for Chemical Classification and Hazard Communication).
- International: Aligns with GHS and EU REACH regulations.

## 16. Other Information

This SDS is intended to provide information about the properties and potential hazards of Concrete Cloth material. It is not a guarantee of specific properties or performance in any given application.

Disclaimer: This Safety Data Sheet (SDS) is offered as a guide for the safe handling, use, storage, and disposal of Concrete Cloth material. The information provided is believed to be accurate to the best of our knowledge, but without any warranty of any kind, expressed or implied. Users should review the information and satisfy themselves as to the suitability of the product for their intended purpose. The information provided in this SDS does not relieve the user of their responsibilities to comply with all applicable laws and regulations.

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