



# SDS



The Queen's Awards for Enterprise: International Trade Winner 2019



Board of Trade Winner 2018



Winner Technical Innovation Award



Innovation Award ICE Wales Cymru Awards 2017



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## Section 1: Product and Company Identification

### 1.1. Product Name

CCX-UTILITY<sup>TM</sup> (CCX-U<sup>TM</sup>) and CCX-MAT<sup>TM</sup> (CCX-M<sup>TM</sup>) GCCM (Geosynthetic Cementitious Composite Mat)  
CCX-BARRIER<sup>TM</sup> (CCX-B<sup>TM</sup>) GCCB (Geosynthetic Cementitious Composite Barrier)

### 1.2. Relevant identified uses of the substance or mixture and uses advised against:

#### CCX-U<sup>TM</sup> and CCX-M<sup>TM</sup> GCCM:

For rapidly applied, durable erosion control applications i.e. water channel lining, slope protection, bund lining, weed suppression, culvert repair.

#### CCX-B<sup>TM</sup> GCCB:

For containment critical durable erosion control applications i.e. water channel lining, lagoon lining, canal remediation, secondary containment bund and berm lining.

### 1.3. Details of the supplier of the Safety Data Sheet

**Concrete Canvas Ltd.** Cowbridge Road, Talbot Green, Pontyclun, CF72 8HL, United Kingdom  
E-mail: [info@concretcanvas.com](mailto:info@concretcanvas.com) | Website: [www.concretcanvas.com](http://www.concretcanvas.com)

### 1.4. Emergency telephone number

Telephone (UK): +44 (0) 345 680 1908 (1) Only available during the following office hours: 08:00 – 16:30

## Section 2: Hazards Identification

### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

| Hazard class                      | Hazard category | Hazard Statement                          |
|-----------------------------------|-----------------|---|
| Skin irritation                   | 2               | H315: Cause skin irritation               |
| Serious eye damage/eye irritation | 1               | H318: Causes serious eye damage           |
| Skin sensitisation                | 1B              | H317: May cause an allergic skin reaction |

#### Human Health

A small amount of powder mix and/or dust may be released during normal handling (i.e. manipulating sections of un-set GCCM/GCCB or when cutting unset or hydrated GCCM/GCCB) – skin, eye and respiratory protection is advised if dust is generated.

When mixed with water or liquid splashes – may cause eye damage.

Contains a low level of soluble Chromium VI. A reducing agent has been added which will, when mixed, reduce the level of soluble Chromium (VI) to no more than 0.0002% (2ppm) of the total dry weight of cement providing the product is stored correctly as indicated in section 7, and used within the recommended shelf life for the product. Persons with a known sensitivity to Chromium VI would be advised not to use this product.

#### Environmental

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

\*Geosynthetic Cementitious Composite Mat & Geosynthetic Cementitious Composite Barrier

## Section 2: Hazards Identification

### 2.2. Label Elements

According to Regulation (EC) No 1272/2008 (CLP)



**Signal word**  
**Hazard statements**

Danger  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

**Precautionary statements**

P102 Keep out of reach of children.  
P264 Wash contaminated skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P313 Get medical advice/ attention.  
P501 Dispose of contents/ container in accordance with national regulations.

**Contains**

Cement

### 2.3. Other Hazards

This product does not contain any substances classified as PBT or VPvB.

## Section 3: Composition/Information on ingredients

### 3.1. Mixtures

CCX-U™, CCX-M™ GCCMs and CCX-B™ GCCB are composed of a cementitious powder, polyester & polypropylene fibres and LLDPE membrane (CCX-M™ and CCX-B™).

We provide this product information on the basis of our current knowledge and experience and can neither give any warranty nor assume any responsibility for factors outside our control or knowledge.

| Name                   | Identifier number (CAS) | Weight % content (or range) |
|------------------------|-------------------------|-----------------------------|
| Cement                 | 65997-15-1              | 50-99%                      |
| <b>Classification:</b> |                         |                             |
| Skin Irrit. 2 – H315   |                         |                             |
| Eye Dam. 1 – H318      |                         |                             |
| Skin Sens. 1 – H317    |                         |                             |
| STOT SE 3 – H335       |                         |                             |

The full text for all hazard statements is displayed in Section 16.

**Composition comments**      A blend of cement, inert filler and additives.

## Section 4: First Aid Measures

### 4.1. First Aid Measures

#### General Notes:

Remove affected person from source of contamination. As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

#### Following Inhalation:

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

#### Following skin contact:

Watch out for any remaining product between skin and clothing, watches, shoes, etc. Wash with soap/cleanser and rinse with plenty of water.

#### Following eye contact:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.

#### Following ingestion:

DO NOT induce vomiting. Wash mouth with water and give plenty of clean water. Seek medical attention, showing this SDS.

#### Self-protection of the first aider:

First aider must follow general rules to avoid direct contact with any spillage powder and fibres. General PPE is suitable.

### 4.2. Most important symptoms and effects, both acute and delayed.

|                            |   |
|----------------------------|---|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>          | Irritation of nose, throat and airway.  |
| <b>Ingestion</b>           | May cause discomfort if swallowed.  |
| <b>Skin contact</b>        | Causes skin irritation. May cause an allergic skin reaction.  |
| <b>Eye contact</b>         | May cause blurred vision and serious eye damage.  |

### 4.3. Indication of any immediate medical attention and special treatment needed.

|                             |                       |
|-----------------------------|-----------------------|
| <b>Notes for the doctor</b> | Treat symptomatically |
|-----------------------------|-----------------------|

## Section 5: Firefighting Measures

### 5.1. Extinguishing Media:

Suitable extinguishing media – water, foam, carbon dioxide or dry powder.

### 5.2. Special hazards arising from the substance or mixture:

The product has a limited combustibility in either packaged or installed (hydrated) form. However, some materials may burn (i.e. packaging or exposed fabric and membrane).

Under fire conditions, fumes can contain carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), water vapour.

### 5.3. Advice for firefighters:

In case of fire: do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

## Section 6: Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures.

There is possibility that some cementitious blend in the form of dust and powder, fibres and pieces of membrane may be released locally in the case of accident.

#### 6.1.1. For non-emergency personnel

Use suitable personal protective equipment (refer Section 8 for details).

### 6.2. Environmental precautions

Prevent release of large quantities of materials to drains and waterways.

### 6.3. Methods and material for containment and cleaning up

Retrieve material by mechanical means (sweeping, vacuuming). Avoid emission of dust. If any spilled material has been wetted: collect it before it begins to harden.

### 6.4. Reference to other sections

Refer to section 8 for more information about personal protective equipment and to section 13 for disposal guidelines.

## Section 7: Handling and Storage

### 7.1. Precautions for safe handling

Avoid handling that may lead to dust formation. Do not eat, drink or smoke when using the product.

#### Protective measures:

Incompatible materials

Contact with water or water vapour during storage will hydrate the product and affects its performance.

#### Fire preventions:

Prevent access by unauthorised personnel.

#### Aerosol and dust generation preventions:

Avoid generation of dust.

#### Environmental precautions:

Avoid any accidental damage to GCCM/GCCB and release of powder or other parts of it to drains and waterways.

#### Advice on general occupational hygiene:

7.1.1. Don't eat, drink and smoke in storage or working area.

7.1.2. Wash hands after use.

7.1.3. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

CC should be stored under cover in dry conditions.

#### Packaging materials:

There is no special packaging restriction with respect to safety but it's advised to store product within the manufacturers sealed packaging.

## Section 7: Handling and Storage

### 7.3. Specific end use(s).

#### 7.3.1. CCX-U™ and CCX-M™ Applications:

- Channel Lining
- Slope Protection
- Bund Lining
- Remediation
- Culvert Lining
- Weed Suppression
- Other

#### 7.3.2. CCX-B™ Applications:

- Channel Lining
- Lagoon Lining
- Bund Lining
- Other

## Section 8: Exposure Controls/Personal Protection

### 8.1. Control parameters:

#### 8.1.1. Occupational exposure limits:

##### Silica Sand

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

##### Cement

Long-term exposure limit (8-hour TWA): WEL 10 total dust; 4 respirable dust mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

**Ingredient comments** The product may contain a low level of respirable crystalline silica (WEL 0.1 mg/m<sup>3</sup>; 8 hours TWA)

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Where reasonably practical, dust exposures should be controlled by engineering methods.

#### 8.2.2. Personal protective equipment

##### a) Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

##### b) Eye / face protection.

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

##### c) Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

##### d) Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

##### e) Respiratory protection

Avoid breathing dust.

Type of FFP mask:

Wear a disposable half-mask dust filter in accordance with standard EN149.



## Section 9: Physical and Chemical Properties

|                           |       |   |                |
|---------------------------|-------|---|----------------|
| Appearance                | :     | cloth/ particulate                          |                |
| Odour                     | :     | not applicable                              |                |
| pH                        | :     | >12.0 during and shortly after hydration    |                |
| Melting Point             | :     | not applicable                              |                |
| Initial Boiling Point     | :     | not applicable                              |                |
| Flash Point               | :     | not applicable                              |                |
| Evaporation rate          | :     | not applicable                              |                |
| Flammability              | :     | partially combustible, doesn't support fire |                |
| Explosive limits          | :     | not applicable                              |                |
| Vapour Pressure           | :     | not applicable                              |                |
| Vapour density            | :     | not applicable                              |                |
| Bulk Density              | :     | 1400 kg/m <sup>3</sup>                      |                |
| Specific Gravity          | :     | not applicable                              |                |
| Solubility                | Water | :   | not applicable |
|                           | Other | :   | not applicable |
| Partition Coefficient     | :     | not applicable                              |                |
| Auto-ignition temperature | :     | not applicable                              |                |
| Decomposition temperature | :     | >200°C                                      |                |
| Viscosity                 | :     | not applicable                              |                |
| Oxidising Properties      | :     | not applicable                              |                |

## Section 10: Stability and Reactivity

### 10.1. Reactivity

There are no known reactivity hazards.

### 10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

Avoid handling that could lead to formation of dust. Avoid moisture.

### 10.5. Incompatible materials

None, to our knowledge.

### 10.6. Hazardous decomposition products

Does not decompose when used as per recommendation.

## Section 11: Toxicological Information

### 11.1. Information on toxicological effects

No data available.

#### 11.1.1. Substances

**Acute toxicity:**

No specific test data available.

**Skin corrosion/skin irritation:**

Irritating to skin. Cement in contact with wet skin may cause irritation. Prolonged contact may cause burns.

**Serious damage to eyes/eye irritation:**

Dust may cause irritation due to the presence of a foreign body. Direct contact by larger amounts of dry cement mix or splashes of wet mix may cause effects ranging from moderate eye irritation to chemical burns and blindness.

**Skin sensitisation:**

Irritating to skin after prolonged exposure or by an immunological reaction to soluble Cr (VI). Sensitisation effect is normally expected during period of effectiveness of the chromate reducing agent.

**Respiratory sensitisation:**

Cement dust may irritate the throat and respiratory tract.

**Specific target organ systemic toxicity - single exposure:**

**STOT – single exposure:**

A single exposure may cause the following adverse effects: asthma, pulmonary sensitisation.

**Target Organs:**

Respiratory system, lungs.

**Specific target organ systemic toxicity - repeated exposure:**

**STOT – single exposure:**

Not classified as specific target organ toxicant after repeated exposure.

**General information:**

Contains chromium (VI). May produce allergic reaction.

**Inhalation**

May contain small percentage of respirable crystalline silica. Prolonged exposure to dust may result in long term irreversible effects.

**Ingestion**

Ingestion of small amounts is not likely to cause any significant reaction. In larger amounts it may cause irritation to gastro intestinal tract.

**Skin contact**

Prolonged or repeated contact with the powder or mixtures with water may cause burns and/or irritant contact dermatitis.

**Eye Contact**

Risk of serious damage to eyes.

**Acute and chronic health hazards**

Irritating to eyes. May cause skin sensitisation or allergic reaction in sensitive individuals.

**Route of entry**

Skin and/or eye contact.

**Target organs**

Eyes, Skin,

**Medical symptoms**

Irritation of eyes and mucous membranes. Allergic rash.

**Medical considerations**

Pre-existing eye problems. Skin disorders and allergies.



## Section 12: Ecological Information

### Ecotoxicity

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. The product may affect the acidity (pH) of water during the curing period which may have hazardous effects on aquatic organisms. The effect will be dependent on the water volume.

|  |   |
|--|---|
| <b>12.1. Toxicity:</b>                           | Not classified  |
| <b>12.2. Persistence and degradability:</b>      | Not established   |
| <b>12.3. Bioaccumulative potential:</b>          | No data available   |
| <b>12.4. Mobility in soil:</b>                   | No data available   |
| <b>12.5. Results of PBT and vPvB assessment:</b> | This substance is not classified as PBT or vPvB according to EU criteria. |
| <b>12.6. Other adverse effects:</b>              | No data available.  |

## Section 13: Disposal Considerations

### 13.1. Waste treatment methods:

#### 13.1.1. Product:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### 13.1.2. Packaging:

Dispose of as unused product in accordance with local and national regulations.

## Section 14: Transport Information

|                          |   |
|--------------------------|---|
| <b>ADR/RID:</b>          | Not Classified as hazardous for transport |
| <b>IMDG:</b>             | Not Classified as hazardous for transport |
| <b>Marine pollutant:</b> | No  |
| <b>IATA:</b>             | Not Classified as hazardous for transport |

|  |                                     |
|--|-------------------------------------|
| <b>14.1. UN number:</b>  | Not applicable.                     |
| <b>14.2. UN proper shipping name:</b>  | Not applicable.                     |
| <b>14.3. Transport hazard classes:</b>   | No transport warning sign required. |
| <b>14.4. Packaging group:</b>  | Not applicable.                     |
| <b>14.5. Environmental hazards:</b>  | Not relevant                        |
| <b>14.6. Special precautions for user:</b>   | Not applicable.                     |
| <b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:</b> | Not applicable.                     |

## Section 15: Regulatory Information

### Label Elements

No statutory safety labels are required for this material in accordance with the provisions of EC/1907/2006, EC/1272/2008 or 67/548/EEC as amended

## Section 15: Regulatory Information

### Other Regulations

Health & Safety at Work etc. Act 1974  
Control of Substances Hazardous to Health Regulations 2002 (as amended)  
Chemicals (Hazard Information and Packaging for Supply) Regulations 2009  
Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)  
EH40/2005 Workplace Exposure Limits (as amended)  
Environmental Protection Act 1990  
Hazardous Waste Regulations 2005 (as amended)

## Section 16: Other Information

### General information

Technical Data Sheet

### Key literature references and source for data:

Health and Safety Executive Guidance Note EH40 (amended annually). Workplace Exposure Limits.

### Revision comments:

This is the first issue

### Revision date:

15/12/2021

### Revision:

1

### Hazard statements in full:

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

All information provided is based on Concrete Canvas Ltd.'s current knowledge and experience of the products and are deemed to be accurate. However, Concrete Canvas Ltd. undertakes no liability or responsibility of any kind in respect thereof.

The conditions or methods for handling, stocking, using or eliminating this product are beyond the control of Concrete Canvas Ltd. Concrete Canvas Ltd. shall therefore not be held liable in case of loss, damage or any expense incurred related to the handling, the stocking, the use or the elimination of this product howsoever.

This document should be used for CCX-UTILITY<sup>TM</sup> (CCX-U<sup>TM</sup>), CCX-MAT<sup>TM</sup> (CCX-M<sup>TM</sup>) GCCMs and CCX-BARRIER<sup>TM</sup> (CCX-B<sup>TM</sup>) GCCBs only.