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MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

CONCRETE CLOTH™ CC5, CC8 and CC13

Description:

A flexible mat containing a dry concrete mix trapped within a 3-dimensional fibre matrix with a fibrous surface on one side and a PVC membrane on the other. When water is added, the material remains workable for 2 hours and then hardens to form a concrete sheet. The material is supplied on a roll and comes in a range of thicknesses up to 20mm.

Supplier/ Manufacturer

Concrete Canvas Ltd.
Unit 3, Block A22
Severn Road
Treforest Industrial Estate
Pontypridd
CF37 5SP, United Kingdom

Contact

Telephone: (+44) 845 680 1908
e-mail: info@concretecanvas.co.uk

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical description

Substance obtained from calcium aluminate clinker. The major chemical elements are Al_2O_3 , CaO , SiO_2 , Fe_2O_3 appearing predominantly in the following mineralogical compounds:

	CAS Number	% composition	Classification/Symbol
Calcium Aluminate Cement	65997-16-2	70-100%	none

Concrete Cloth does not contain free lime or crystalline silica (such as quartz, tridymite or cristobalite) in measurable amounts.

Membrane and fabric are not hazardous substances.

3. HAZARD IDENTIFICATION

WHMIS Classification

Class D-2B, Skin or eye irritant

Class E, corrosive material (forms alkaline solution with water)

Most Important Hazards

In contact with water, an alkaline solution occurs (pH 11-11.5). In spite of the pH level, the alkaline reserve is limited, and the product has not been classified as an irritant according to criteria defined in the EEC directives (93/21/EEC). A dust problem may occur in confined areas. It is regarded as a nuisance without any known specific effects to health.

Specific Hazards

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.

Carcinogen Listed In:

None of the constituents is a listed carcinogen with NTP, OSHA or IARC monograph.

4. FIRST AID MEASURES

Inhalation

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

Ingestion

DO NOT induce vomiting. Wash mouth with water and give plenty of clean water. Get medical attention if symptoms persist.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing and rinse the skin immediately with soap and lots of water. Get medical attention if irritation persists after washing.

Eye contact

Rinse the eye with water immediately. If symptoms persist, seek medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

Avoid emission of dust.

Methods of cleaning up

Avoid contamination of water ways and cultivated areas. Confine spill and sweep up or vacuum to avoid generating excessive dust. Dispose of by landfill in accordance with local regulations.

7. HANDLING AND STORAGE

Technical measures and precautions

Handle in well ventilated areas using methods that minimize dust.

Safe handling advise

No particular precautions.

Incompatible products

Contact with water or water vapor during storage will hydrate the product and affects it's performance.

Packaging materials

No special restrictions with respect to safety.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering measures

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

Control parameters

The following occupational exposure limits defined for non-specified nuisance dust are applicable.

	OSHA PEL	ACGIH PEL
Total dust	15 mg/m ³	10 mg/m ³
Respirable dust	5 mg/m ³	5 mg/m ³

Personal protective equipment

General

Protective clothing is recommended including waterproof gloves and boots.

Respiratory

NIOSH approved respiratory protection should be worn when the conditions are such that personal exposure is estimated to approach or exceed the stated limits.

Eye

ANSI approved glasses or goggles should be worn whenever there is a risk of powder or wet mixture entering the eyes.

Skin

Wear work that prevents any powder or powder / water mixture contacting the skin.

Environmental Exposure Controls

Avoid contamination of waterways and cultivated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	cloth/ particulate	
Odour	:	none	
pH	:	11-11.5 when wet	
Boiling Point	:	not applicable	
Melting Point	:	not applicable	
Flash Point	:	not applicable	
Flammability Limits	:	not applicable	
Oxidising Properties	:	not applicable	
Vapour Pressure	:	not applicable	
Bulk Density	:	1500 kg/m ³	
Specific Gravity	:	not applicable	
Solubility			
	Water	:	not applicable
	Other	:	not applicable
Partition Coefficient	:	not applicable	
Viscosity	:	not applicable	
Vapour Density	:	not applicable	
Evaporate Rate	:	not applicable	

10. STABILITY AND REACTIVITY

In a dry environment the product is chemically stable. When mixed with water it reacts chemically and hardens, forming stable calcium aluminate hydrates. This reaction is exothermic and continues for up to 24h. Total heat released is < than 500J/kg. There are no hazardous decomposition products.

11. TOXICOLOGICAL DATA

Acute toxicity

None

Local effects

May cause local irritation to eye, throat or skin, but is not classified as irritant according to EEC legislation.

Sensitization and chronic toxicity

Does not contain amounts of soluble Chromium (VI)

12. ECOLOGICAL INFORMATION

Possible environmental effects

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.

13. DISPOSAL CONSIDERATIONS

Dispose of this material to a landfill site in accordance with local authority requirements.

The condition 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.

14. TRANSPORT DATA

This product is not classified as a hazardous material under Canadian TDG regulations

15. REGULATORY INFORMATION

CERCLA/Superfund

None of this product's constituents are listed as CERCLA hazardous substance.

Inventory listings

Calcium aluminate cement is listed on Canadian inventory, the DSL.

16. OTHER INFORMATION

All information provided is based on Concrete Canvas Ltds' 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 Concrete Cloth only.