



# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006

Ref. 130000006361/

Rev. no. 1.1

## Capillary Concrete Admixture

Revised on 07.05.2015

Printing date 07.05.2015

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name Capillary Concrete Admixture

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

Dry mortar for coating

This information is not available.

Recommended restrictions on use

#### 1.3 Details of the supplier of the safety data sheet

Capillary Concrete AB  
C/o Torrekulla GK  
Alveredsvägen  
S-431 90 Mölndal  
Sweden  
Tel: +44 705 500 123  
martin@capillaryconcrete.com - www.capillaryconcrete.com

E-mail address of person responsible for the SDS  
European Union

Capillary Concrete AB  
martin@capillaryconcrete.com

#### 1.4 Emergency telephone number European Union

Phone: +44 (0)1235 239 670

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Assessment ( REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1 H318: Causes serious eye damage.  
Skin irritation, Category 2 H315: Causes skin irritation.  
Specific target organ toxicity - single exposure, Category 3, Respiratory system H335: May cause respiratory irritation.

##### Assessment (67/548/EEC, 1999/45/EC

1999/45/EC:

Hazard Irritant  
characteristics/Category  
Indication of danger Irritant

R-phrases) R41, R37/38 Risk of serious damage to eyes. Irritating to respiratory system and skin.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006



## Capillary Concrete Admixture

Hazard pictograms



Signal word

Danger

Hazard statements

H315Causes skin irritation. H318Causes serious eye damage.  
H335May cause respiratory irritation.

Precautionary statements

P102Keep out of reach of children.P261Avoid breathing dust.P271Use only outdoors or in a well-ventilated area.Prevention:  
P280Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Response:  
P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P315Get immediate medical advice/ attention.  
P302 + P352IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313If skin irritation occurs: Get medical advice/ attention.  
P362Take off contaminated clothing and wash before reuse.  
P304 + P340IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Additional Labelling:

Low in chromate content for at least 6 months after date of manufacture when stored correctly in dry conditions.

### Hazardous components which must be listed on the label:

portland cement

### 2.3 Other hazards

Risk of infection of the lung after prolonged inhalation of dust particles.

The mixture is low in chromate content, as the level of sensitising chrome (VI) is lowered by the use of additives to under 2 ppm in the cement constituent of the ready-to-use mortar. It is thus not classified as sensitising in accordance with Art. 6 and Annex 1 to EC Directive 1272/2008. To ensure the chromate reduction's effectiveness, it must be stored correctly and the use-by date must be observed.

When exceeding the shelf life of the product there is a risk of skin rash in cases of hypersensitivity to Chromium (VI).

Longer and / or strong inhalation of alveolae penetrating fine quartz dust can lead to pneumoconiosis, also known as silicosis. The most important symptoms of silicosis are coughing and shortness of breath. Silicosis sufferers are at increased risk of lung cancer. The dust exposure should be measured and supervised.

As there is an alkaline reaction when the mortar/plaster comes into contact with water, protect skin and eyes. In case of contact with skin rinse thoroughly with plenty of water. In case of contact with eyes, consult a doctor immediately.

Results of PBT and vPvB assessment

Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea. Not applicable



# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006



## Capillary Concrete Admixture

	Cough Irritating to respiratory system.
Treatment	Treat symptomatically. No information available.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media      The product is not flammable.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media      Not applicable

**5.2 Special hazards arising from the substance or mixture**      The product is neither explosive nor combustible and is also not oxidising in relation to other materials.

**5.3 Advice for firefighters**      No special measures required.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**      Avoid dust formation.  
Use respiratory protective device against the effects of dust.

**6.2 Environmental precautions**      The product should not be allowed to enter drains, water courses or the soil.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**      Use mechanical handling equipment.  
Moisten and remove.  
Avoid whirling up dust - vacuum-clean rooms instead of sweeping.  
Do not use compressed air for cleaning purposes.  
Dispose of contaminated material as waste according to item 13.  
Clean contaminated surface thoroughly.

**6.4 Reference to other sections**      Refer to protective measures listed in sections 7 and 8.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Advice on safe handling      Avoid dust formation.  
When handling sacked goods and using open mixing containers, first pour in water, then carefully allow the dry mortar to run in. Keep fall height low.  
Start up mixer slowly.

# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006



## Capillary Concrete Admixture

Do not compress empty sacks, e.g. in a larger sack.  
Large loads of over 25 kg should be moved not by hand but with the aid of mechanical equipment only. Depending on the employee's age, gender and constitution and the frequency with which loads are lifted and carried, they may also induce a high level of strain at lower weights.  
Do not kneel in fresh product while working.

Provide sufficient air exchange and/or exhaust in work rooms.  
Do not re-use empty containers.

### Hygiene measures

When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Avoid contact with the skin and the eyes.  
Remove and wash contaminated clothing before re-use.

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

#### Requirements for storage areas and containers

Store in original container.  
Keep in a dry place.

#### Advice on protection against fire and explosion

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, fumes.

#### Further information on storage conditions

Protect from humidity and water.  
Manufacturer's notes on storage conditions and product life must be observed.

#### Advice on common storage

No materials to be especially mentioned.

### 7.3 Specific end use(s)

For further information, see also Technical Data Sheet for the product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

To avoid dust formation, closed systems (e.g. silo with feed system), local extractors or other technical control devices should be used, e.g. plastering machines or continuous mixers with special auxiliary equipment for collecting dust.

Washing facilities / water for rinsing eyes and skin should be available.  
Maintain air concentrations below occupational exposure standards.

# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006



## Capillary Concrete Admixture

### Individual protection measures, such as personal protective equipment

a) Eye/face protection	Tightly fitting safety goggles
b) Skin protection Hand protection	<p>Nitrile coated cotton gloves Break through time: 480 min Minimum thickness: 0,8 mm e.g. KCL 102 Sahara® Top (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent. Gloves to afford protection from chemicals (cat. III) are not required.</p> <p>Soaked gloves should be changed. Keep replacement gloves available.</p> <p>After washing hands, replenish lost skin oil by means of oily skin ointment. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.</p>
Body Protection	Long sleeved clothing
c) Respiratory protection	<p>Avoid inhalation of particles. Mixing and transferring dry mortars in open systems:</p> <p>Compliance with the maximum permissible levels at the workplace is to be ensured by effective dust control measures, e.g. local extraction devices. Where this is not possible, particle-filtering half masks of type FFP2 (tested in accordance with EN 149) are to be used.</p> <p>Manual working of ready-to-use mortar: No respiratory protection necessary.</p> <p>Machining of mortar: No respiratory protection necessary.</p>

### Environmental exposure controls

General advice	<p>The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform respective authorities.</p>
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	powder
Colour	grey

# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006



## Capillary Concrete Admixture

Odour	odourless
Odour Threshold	No data available
pH	> 11,5, 20 °C, (aqueous suspension)
Melting point/freezing point	> 1.250 °C
Initial boiling point and boiling range	not applicable
Flash point	not applicable
Evaporation rate	not applicable
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	Not applicable
Density	ca. 2,75 - 3,2 g/cm <sup>3</sup>
Solubility(ies)(Water)	0,1 - 1,5 g/l, 20 °C, slightly soluble
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	not auto-flammable
Ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, dynamic	not applicable

### 9.2 Other information

Bulk density	ca. 900 - 1.500 kg/m <sup>3</sup>
Flow time	not applicable

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions                      This information is not available.

### 10.4 Conditions to avoid

Conditions to avoid                      Avoid exposure to water and moisture during storage (moisture leads to an alkaline reaction which causes the mixture to harden).

### 10.5 Incompatible materials

# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006



## Capillary Concrete Admixture

Materials to avoid	Reacts exothermically with acids; the moist product is alkaline and reacts with acids, ammonium salts and base metals, e.g. aluminium, zinc, brass. The reaction with base metals produces hydrogen.
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### 10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if stored and applied as directed.
Decomposition temperature	No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Product

Acute oral toxicity	Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Based on available data, the classification criteria are not met.
Acute dermal toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitisation	As long as the product life date is not exceeded and the stated personal protection measures are observed, a sensitising effect is not to be expected.  When exceeding the shelf life of the product there is a risk of skin rash in cases of hypersensitivity to Chromium (VI).
Germ cell mutagenicity	
Genotoxicity in vitro	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity Effects on fertility	Based on available data, the classification criteria are not met.



# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006



## Capillary Concrete Admixture

Developmental Toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Inhalation May cause respiratory irritation.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Human experience	Cement may exacerbate existing illnesses of the skin, eyes and respiratory passages, e.g. in case of pulmonary emphysema or asthma.
Further information	The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).
<b><u>Components:</u></b>	
<b>portland cement :</b>	
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT - single exposure	Exposure routes: Inhalation May cause respiratory irritation.
<b>flue dust, portland cement (Dust) :</b>	
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
STOT - single exposure	Exposure routes: Inhalation May cause respiratory irritation.



# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006



## Capillary Concrete Admixture

Opened and left-over materials can be used later. Only material no longer suitable for use should be mixed with water and allowed to harden. Hardened product residues may be disposed of as industrial waste or building rubble under waste codes 17 01 01 or 10 13 14. Unhardened product residues should be disposed of under the recommended waste code number.

Contaminated packaging

Empty packaging should be recycled through disposal systems.

Waste key for the unused product

17 09 03\*: other construction and demolition waste (including mixed waste) containing hazardous substances

: (\*) hazardous waste in terms of the European directive 91/689/EEC

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks

This information is not available.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks

Not applicable

### SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2010/75/EU

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Directive 2004/42/EC

# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006



## Capillary Concrete Admixture

Other regulations does not fall under Directive 2004/42/EC  
Comply with the statutory regulations on health and safety at work.

Take note of Dir 94/33/EC on the protection of young people at work.  
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.  
The cement in the product is chromate-reduced. Persons with a chromate allergy should not handle the product.

### 15.2 Material safety assessment

This information is not available.

## SECTION 16: OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3:

R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.

### Full text of H-Statements referred to under sections 2 and 3.

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

Department issuing MSDS	Capillary Concrete AB C/o Torrekulla GK, Alveredsvägen S-431 90 Mölndal, Sweden Tel: +44 705 500 123 martin@capillaryconcrete.com - www.capillaryconcrete.com
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### Further information

The assessment was carried out in accordance with Article 6 (5) and Appendix I of EC Directive no. 1272/2008.

It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

**Changes from the previous version are indicated by markings in the left-hand margin. The details given in this safety data sheet correspond to our present state of knowledge and conform to both national and EU legislation. The working conditions of the user are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The details given in this safety data sheet describe the safety requirements of our product and do not constitute any assurance of product properties.**

# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006



## Capillary Concrete Admixture

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