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

Ref. 130000006361/
Rev. no. 1.1

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Capillary Concrete Admixture

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

Recommended restrictions on use
This information is not available.

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

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
Skin irritation, Category 2
Specific target organ toxicity - single exposure, Category 3,
Respiratory system

H318: Causes serious eye damage.
H315: Causes skin irritation.
H335: May cause respiratory irritation.

Assessment (67/548/EEC, 1999/45/EC)
1999/45/EC:
Hazard characteristics/Category
Indication of danger Irritant
R-phrase(s) 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)
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Hazard pictograms

Signal word Danger

Hazard statements
H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary statements
P102 Keep out of reach of children. P261 Avoid breathing dust. P271 Use only outdoors or in a well-ventilated area. Prevention:
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315 Get immediate medical advice/ attention.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P304 + P340 IF 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 exposition should be measured and supervised.

As there is an alkaline reaction when the mortar/plaster comes into contact with water, protect skin an 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.
Results of PBT and vPvB assessment
Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
Chemical nature: Cementitious factory-made mortar.

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No. EC-No. Registration number</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>65997-15-1 266-043-4</td>
<td>Xi; R37/38-R41 R43</td>
<td>Eye Dam.1; H318 STOT SE3; H335 Skin Irrit.2; H315 Skin Sens.1; H317</td>
<td>≥ 90 - ≤ 100</td>
</tr>
<tr>
<td>flue dust, portland cement (Dust)</td>
<td>68475-76-3 270-659-9</td>
<td>Xi; R37/38-R41</td>
<td>Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H335</td>
<td>≥ 1 - &lt; 5</td>
</tr>
</tbody>
</table>

For explanation of abbreviations see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation
Move to fresh air.
If symptoms persist, call a physician.

Skin contact
Take off contaminated clothing and shoes immediately.
Wash off immediately with soap and plenty of water.
If symptoms persist, call a physician.
Wash clothing before reuse.

Eye contact
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If possible, use isotonic eye rinse solution (e.g. 0.9% NaCl).
Do not rub affected area.
Call a physician immediately.

Ingestion
Rinse mouth.
If conscious, drink plenty of water.
Do NOT induce vomiting.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
Skin contact may provoke the following symptoms:
May cause skin irritation and/or dermatitis.
Risk of serious damage to eyes.
Inhalation may provoke the following symptoms:
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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.
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.

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.
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Individual protection measures, such as personal protective equipment

a) Eye/face protection
   Tightly fitting safety goggles

b) Skin protection
   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.
   Soaked gloves should be changed. Keep replacement gloves available.
   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.

Body Protection
   Long sleeved clothing

c) Respiratory protection
   Avoid inhalation of particles.
   Mixing and transferring dry mortars in open systems:
   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.
   Manual working of ready-to-use mortar: No respiratory protection necessary.
   Machining of mortar: No respiratory protection necessary.

Environmental exposure controls

General advice
   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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: powder
Colour: grey
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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/cm³
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/m³
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
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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.

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.
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**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).

**Components:**
- **portland cement**
  - 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.

- **flue dust, portland cement (Dust)**
  - 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.
SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Product:
Toxicity to fish
No data available

12.2 Persistence and degradability

Product:
Biodegradability
No data available

12.3 Bioaccumulative potential

Product:
Bioaccumulation
No data available

12.4 Mobility in soil

Product:
Mobility
Not applicable

12.5 Results of PBT and vPvB assessment

Product:
Assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:
Additional ecological information
Do not empty into drains. Eco-toxic effects, in particular aquatic toxicity, are only possible when larger quantities are released into water resulting in a change of the pH-value.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
The user is responsible for proper coding and marking of any waste. When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC).
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 0 %

Directive 2004/42/EC
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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

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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.