



CapillaryConcrete

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Rev. no. 1.3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Capillary Concrete Admixture

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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

Uses advised against

This information is not available.

1.3 Details of the supplier of the safety data sheet

Capillary Concrete AB Stora
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1.4 Emergency telephone number European Union

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word

Danger

Hazard statements

H315
H318
H335

Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.

Supplemental Hazard Statements

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

Precautionary statements

P102
Prevention:
P261
P271
P280

Keep out of reach of children.
Avoid breathing dust.
Use only outdoors or in a well-ventilated area.
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.
Get immediate medical advice/ attention.
P315 IF ON SKIN: Wash with plenty of soap and water.
P302 + P352 If skin irritation occurs: Get medical advice/ attention.
P332 + P313 Take off contaminated clothing and wash it before reuse.
P362 + P364 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304 + P340

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.

Mortar/render has an alkaline reaction with water. Therefore protect your skin and eyes. Wash thoroughly with water in case of skin contact. Immediately consult a doctor in case of contact with eyes!

Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea.

Results of PBT and vPvB assessment

Not applicable

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Cementitious factory-made mortar.

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
portland cement	65997-15-1 266-043-4	Eye Dam.1; H318 STOT SE3; H335 Skin Irrit.2; H315 Skin Sens.1; H317	≥ 90 - ≤ 100

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:
Cough
Irritating to respiratory system.

Treatment

Treat symptomatically.
No information available.

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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.

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	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. The lists that were valid during the creation were used as basis.

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.

Individual protection measures, such as personal protective equipment

a) Eye/face protection	Safety glasses with side-shields conforming to EN166
b) Skin protection Hand protection	Nitrile coated cotton gloves Break through time: 480 min

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Minimum thickness: 0,8 mm
Protective gloves complying with EN 388.
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
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

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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	No data available
Density	ca. 2,75 - 3,2 g/cm ³
Solubility(ies)(Water)	0,1 - 1,5 g/l, 20 °C, slightly soluble
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not auto-flammable
Decomposition temperature	No data available
Viscosity, dynamic	not applicable

9.2 Other information

Bulk density	ca. 900 - 1.500 kg/m ³
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

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

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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.
Developmental Toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Inhalation May cause respiratory irritation.

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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.

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

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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 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. Do not flush into surface water or sanitary sewer system.

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

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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 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 2004/42/EC

does not fall under Directive 2004/42/EC

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Other regulations

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 Chemical safety assessment

This information is not available.

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SECTION 16: OTHER INFORMATION

Changes from the previous version are indicated by markings in the left-hand margin. The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

Full text of H-Statements

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

Full text of other abbreviations

Eye Dam. : Serious eye damage
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC- Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other 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

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on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing MSDS

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