



Safety Data Sheet

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(EC) nr 1272/2008 (CLP, Classification Labelling and Packaging)
EU , European Union. GHS.

1:Product and producer/supplier

| | |
|---------------|------------|
| Issued date: | 2017-03-09 |
| Revised date: | - |

1.1 Product

| | |
|-----------------------------|--|
| Trade namn, identification: | CM 420 Offshore. |
| Chemical name: | - |
| CAS-nr: | This product is a mixture, CAS.nr is not issued or relevant. |

1.2 Main use of product, uses advised against:

| | |
|-----------------------|--|
| Function: | Floor underlayment |
| Area of use: | Specially designed for the harsh marine environments of ships and ferries. CM 420 Offshore is pourable or pumpable, and designed to go over steel, lead, aluminum and copper |
| Uses advised against: | Not for construction molding etc. Always get advice from supplier before considering other use than recommended. |

1.3 Manufacturer/supplier:

| | |
|-----------------|------------------|
| Company name: | Combimix AB |
| Office address: | Verkstadsvägen 6 |
| Postal code: | 746 40 |
| City: | Bålsta |
| State: | SWEDEN |
| Telephone: | +46 171 466590 |
| Fax: | - |
| E-mail: | info@combimix.se |
| Website: | www.combimix.se |

1.4 Emergency telephone number.

| | |
|----------------------|--------------|
| Emergency telephone: | 985 893 4066 |
|----------------------|--------------|

2: Hazards identification

2.1 Classification of the substance or mixture.

| | |
|--|--|
| Classification according to (EC) No 1272/2008 [CLP/GHS]: | Eye Irrit. 2; H319 |
| Classification CLP, comment: | Ready mixed (wet, not yet hardened) material is more aggressive than dry powder. |
| Substance/mixture hazardous properties. | Reacts with water, high pH-values occur. |

Revised date: -

2.2 Label elements

Hazard pictograms (CLP)



(pictogram code GHS07)

| | |
|----------------------------------|--|
| Signal word: | WARNING |
| Hazard statements: | H319, Causes serious eye irritation. |
| Precautionary statements: | P102, P280, P305+P351+P338, P337+P313. See section 16 for complete statements. |

2.3 Other hazards

| | |
|-----------------------|---|
| PBT/vPvB: | None. |
| Other hazards: | May cause dry skin and skin cracks. The portland cement is chromium reduced, this reduction will last at least twelve months from manufacturing date. Sensitive people are advised to be extra careful. |

3: Composition/information on ingredients

| Component name: | Identification: | Classification: | Content:: |
|-------------------|---------------------|---|-----------|
| Aluminate cement: | CAS-nr.: 65997-16-2 | Not classified | 15-20 % |
| Portland cement: | CAS-nr.: 65997-15-1 | Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE3; H335 Skin Sens. 1; H317 | < 3% |
| Lithium carbonate | CAS.nr.: 554-13-2 | Acute tox. 4; H302 Eye Dam.2; H319 | <0,1 % |
| Tartaric acid | CAS.nr.: 87-69-4 | Eye Dam.1; H318 | <0,1 % |

4: First aid measures

4.1 Description of first aid measures.

| | |
|----------------------|---|
| General: | By avoiding direct contact with wet or dry product most discomforts will be prevented. |
| Inhalation: | Move person to fresh air. Get medical advice if irritation persists or later develops. |
| Skin contact: | Dry product: remove and wash with soap and water. Wet product: remove contaminated clothes and wash before reusing. Wash skin with soap and water |
| Eye contact: | Do not rub eyes. Remove contact lenses if present, and easy to do. Flush eyes immediately by rinsing with plenty of water. Seek medical attention if irritation or discomfort persists. |
| Ingestion: | Do not induce vomiting. Drink water. If discomfort persists, call a physician. |



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

Eye contact with portland cement, or portland cement based mixtures may cause severe and potentially irreversible injuries. Dry skin, and skin cracks may occur after repeated or long time exposure. Sensitive persons should be extra careful. Coughing or discomfort in mouth, throat, mucus membrane.

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

Eyewash equipment must be easily accessible when working with the product. When contacting a physician, take this MSDS with you.

5: Firefighting measures

5.1 Extinguishing media.

This product is not combustible.

5.2 Special hazards arising from the substance or mixture.

None to expect.

5.3. Advice for firefighters.

Extinguishing media in contact with this product may adopt the same aggressive properties as the product itself. Protect your eyes.

6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures.

| | |
|-----------------|---|
| General: | Take precautions to minimize inhaling or spreading of dust to animals or humans. Avoid direct contact with the product. |
|-----------------|---|

6.1.1 For non-emergency personnel.

See section 8 for protective equipment

6.1.2 For emergency responders.

See section 8 for protective equipment.

6.2. Environmental precautions.

Avoid spreading to sewers, drainage systems, streams and similar.

6.3. Methods and material for containment and cleaning up.

Vacuum clean up is recommended for dry product, using shovels or brushes may cause irritating/hazardous dust. Wet product can be shoveled, avoid contact, wet material may develop corrosive properties. Hardened material is no longer aggressive or hazardous. Transport waste in sealed container.

6.4 Reference to other sections.

See section 13 for waste disposal.

7: Handling and storage



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7.1 Precautions for safe handling

Mix the product outdoors or in well ventilated areas. Minimize risk of spreading dust.

7.2 Conditions for safe storage, including any incompatibilities.

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|-----------------------------|--|
| Storage: | Keep out of reach of children and pets. Avoid contact with moisture. |
| Other information: | The chromium reduction of the cement is effective for twelve months from manufacturing date. Use of this product after the end of the declared storage period may increase the risk of an allergic reaction. |
| Conditions to avoid: | Avoid contact with aluminium, contact may create hydrogen. |

7.3 Specific end use.

See section 1.

8: Exposure controls/personal protection

8.1 Control parameters

| Component name | Identification | Value | Comment/year |
|-----------------|----------------|---|--------------|
| Total dust | - | 15 mg/m ³ , TWA. | OSHA, ACGIH |
| Portland cement | 65997-15-1 | 1 mg/m ³ , TLV, respirable fraction. | ACGIH ,2014 |

DNEL/PNEC

No data.

8.2 Exposure controls.

| | |
|--|---|
| Occupational exposure controls: | Avoid direct contact with dry or wet product. Take precautions to minimize dust. Do not eat, drink or smoke while working with the product. |
| Inhalation: | Use breathing protection, filter P3 is recommended. |
| Hands: | Use suitable gloves. |
| Eye/face: | Tight eye protection must be worn. |
| Skin: | Covering clothing. |
| Hygiene/environment : | Contaminated clothing must be washed before reuse. Wash body parts that have been exposed to the product as soon as possible. |
| Additional information: | Wet product is more aggressive than dry powder. |

Safety signs



9: Physical and chemical properties

9.1 Information on basic physical and chemical properties.

| | |
|-----------------------------|---|
| Physical state | Powder. |
| Colour | Light grey. |
| Odour | Hard to detect, difficult to define. Almost odorless. |
| pH (aqueous solution) | Approx. 13. |
| Boiling point | No relevant. |
| Melting point/melting range | Not relevant. |
| Flash point | - |
| Flammability | - |
| Explosion limit | Not explosive. |
| Vapour pressure | Not relevant. |
| Vapour density | Not relevant. |
| Specific gravity | Approx 1.5. |
| Solubility in water | Cement, 0.1-1.5 g/L |

Physical hazards.

| | |
|----------------------|------|
| Explosive properties | None |
| Oxidizing properties | None |

9.2 Other information.

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10: Stability and reactivity

10.1 Reactivity.

Reacts with water, creates high pH (ca 13). Develops slight (harmless) warmth and hardens. When hardened the product is no longer hazardous or reactive.

10.2 Chemical stability.



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Stable as long as properly stored.

10.3 Possibility of hazardous reactions.

None to expect.

10.4 Conditions to avoid.

Humid conditions and contact with aluminium. See section 7.

10.5 Incompatible materials.

Aluminium, see section 7.

10.6 Hazardous decomposition products.

None.

Additional information.

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11: Toxicological information

11.1 Information on toxicological effects.

Potential acute effects.

| | |
|------------|---|
| Inhalation | May cause irritation in the throat and respiratory tract. Coughing, sneezing and shortness of breath may occur. |
| Skin | Not considered hazardous. Wet product, or contact with wet skin, may cause slight skin irritation. |
| Eye | Itching, irritated. |
| Ingestion | Discomfort and irritation of the digestive system if you swallow large amount (a mouth full), dry mouth. |

Delayed/Repeating

| | |
|-------------------|---|
| Sensitization | Not considered as sensitizing. The reduction of chromium (VI) to less than 2 ppm is effective for twelve months. |
| Other information | Long term or frequent exposure can cause dry and irritated skin to sensitive people. Risk of persistent eye irritation. |

12: Ecological information

12.1 Ecotoxicity.

Not classified as hazardous to the environment.

12.2 Persistence and degradability.

Not relevant. After hardening the product presents no toxicity risks.

12.3 Bioaccumulative potential.

Not relevant. After hardening the product presents no toxicity risks.

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12.4 Mobility in soil.

Not relevant.

12.5 Results of PBT and vPvB assessment.

No such ingredients.

12.6 Other adverse effects.

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13: Disposal considerations

13.1 Waste treatment methods.

| | |
|---|---|
| Methods of removal/disposal | Transport in sealed container to avoid spreading dust. |
| Hazardous waste product. | If hardened with water before disposal the product is no longer hazardous waste and can be used as filling material or similar. |
| Packaging classified as hazardous waste | No. Empty and well cleaned bags can be sent to combustion |
| EWC waste code | 101314, waste concrete and concrete sludge. 170101, concrete. |
| Other information | Do not dispose in sewers systems and surface waters. |

14: Transporting information

14.1 UN-number.

None, not classified.

14.2 UN proper shipping name.

None.

14.3 Transport hazard class.

None

14.4 Packing group.

None

14.5 Environmental hazards

None.

14.6 Special precautions for user.

None.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 og IBC

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Not relevant.

Other applicable information.

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15:Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the mixture.

| | |
|------------|--|
| References | TLVs and BEIs 2013, ACGIH. European waste catalogue, TLVs and BEIs 2013, ACGIH. CLP, Classification, Labelling and Packaging, (EC) nr 1272/2008 OSHA, Standards 29 CFR. |
| Comments | - |

15.2 Chemical safety assessment.

No.

16: Other information

| | |
|--|--|
| Supplier's notes | Changes made in this version: --- |
| | When using product older than twelve months the risk of allergic skin reaction can not be excluded. |
| Classification | Hazardous classification according to CLP: Eye irritation category 2, Causes serious eye irritation. |
| List of relevant H-phrases. From section 2 and 3. | H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H319: Causes serious eye irritation. H335: May cause respiratory irritation. |
| List of relevant P-phrases. | P102: Keep out of reach of children P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313.If eye irritation persists: get medical advice/attention. |
| Abbreviations | CAS: Chemical Abstract Service. CLP: Classification, Labelling and Packaging TWA: Time Weighted Average (8 hours) TLV: Threshold Limit Value OSHA: Occupational Safety & Health Administration. ACGIH: American Conference of Industrial Hygienists EWC: European Waste Catalogue. GHS: Globally Harmonized System. |

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