



MATERIAL SAFETY DATA SHEET

CEMENT

SUPPLIER: CEBO UK LIMITED
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PORTLETHEN
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SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION

- 1.1 Identification of the Substance: Portland Cement.
 1.2 Trade Name: Well Cement, API Class G, HSR Grade.
 Well Cement, Rapid Hardening.
 Well Cement, API Class C.
 1.3 Product Application: Oilwell Cementing.

SECTION 2 - HAZARDS IDENTIFICATION

- 2.1 Hazards Identification: Irritating to respiratory system skin (R37/38).
 Danger of serious eye damage (R41).
 Sensitising is possible through skin contact. Mixed with water the product could harm the skin after a long period of contact (R43).
 Product contains reduced Cr(VI), by addition of small amount of additives.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	Typical Contents	EC Number	CAS number	Classification Regulation (EC) No. 1272/2008
Portland Cement Clinker	5-100%	266-043-4	65997-15-1	Cat. 1, H315, H317, H318, H355

SECTION 4 - FIRST AID MEASURES

- 4.1 Inhalation: If irritation occurs, move to fresh air. In cases of inflammation, seek medical advice.
 4.2 Skin Contact: If skin contact occurs, wash the affected area thoroughly with soap and water before continuing. If irritation, pain or other skin trouble occurs, seek medical advice.
 4.3 Eye Contact: Do not rub eyes. Remove contact lenses if present. Immediately wash eyes with wash solution or water for 20 minutes. Get medical attention if necessary.
 4.4 Ingestion: Do not induce vomiting. Wash out mouth with water and give the patient plenty of water to drink, seek medical advice.

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- 5.1 Fire Fighting Measures: Cements are not flammable and will not facilitate combustion with other materials.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions: Avoid skin and eye contact, avoid release of dust, provide for sufficient ventilation and sufficient protection against inhalation.
- 6.2 Environmental Precautions: Ensure spillage does not enter drainage systems.
- 6.3 Cleaning Up Method: Recover the spillage in a dry state if possible. Minimise generation of airborne dust. The product can be slurried by the addition of water but will subsequently set as a hard material at which point it can be disposed of.

SECTION 7 - HANDLING AND STORAGE

- 7.1. Handling: Bulk cement is handled in a closed pneumatic system. Avoid any dust generation, contact with the eyes and skin. Appropriate personal protective clothing should therefore be used whilst handling.
- 7.2 Storage: To protect cement from premature hydration after delivery, bulk silos should be waterproof and internal condensation should be minimised.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Occupation Exposure Standards: OES 8 Hr Time Weighted Average (TWA).
Total Inhalable Dust 10mg/m³
Respirable Dust 3mg/m³
- 8.2 Engineering Measures: Wherever it is reasonably practicable to do so airborne dust exposures should be controlled, to the OES, by engineering methods, good work practices and as a final resort personal protective equipment.
- 8.3 Personal Protection
- a) Respiratory Protection: Inhalation of cement powder should be avoided. Respiratory protection should be worn where airborne powder is present to ensure that personal exposure is less than OES.
- b) Hand and Skin Protection: Protective clothing should be worn which ensures that cement, or any cement/water mixture (eg, concrete or mortar) does not come into direct contact with the skin. If permeable clothing becomes contaminated with cement or any cement/water mixture, it should be removed immediately and washed before further use. If cement powder or any cement/water mixture enters protective gloves or footwear, they should be removed immediately and washed out thoroughly.
- c) Eye Protection: Dust Proof Goggles should be worn wherever there is a risk of cement powder or any cement/water mixture entering the eye.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical and Chemical Properties:

Physical State:	Light grey powder
Odour:	Odourless
pH:	pH of wet cement 11 - 14
Viscosity:	N/A
Freezing Point:	N/A
Boiling Point:	N/A
Melting Point:	1250 °C
Flash Point:	N/A (not flammable)
Explosive properties:	N/A
Relative Density:	2.75-3.20; Apparent density 0.9-1.5 gm/cc ³
Solubility:	<1.5g/l

SECTION 10 - STABILITY AND REACTIVITY

- 10.1 Stability: Well cements will hydrate when in the presence of water or water vapour and will harden to a stable non-reactive mass.
- 10.2 Conditions to Avoid: Access of moisture and humidity.
- 10.3 Materials to Avoid: Acids, ammonium salts, aluminium or other non-noble metals. Aluminium powder in wet cement should be avoided as hydrogen is produced.
- 10.4 Hazardous Decomposition Products: None

SECTION 11 - TOXICOLOGICAL INFORMATION

- 11.1 Inhalation: Cement powder may cause inflammation of mucus membranes.
- 11.2 Skin Contact: Cement powder or any cement/water mixture may cause irritant contact dermatitis, allergic (chromium) dermatitis, and/or burns.
- 11.3 Eye Contact: Cement is a severe eye irritant. Mild exposures can cause soreness. Gross exposures or untreated mild exposures can lead to chemical burning and ulceration of the eye. Corneal damage may occur if the eyes are rubbed.
- 11.4 Ingestion: The swallowing of small amounts of cement or any cement/water mixtures is unlikely to cause any significant reaction. Larger doses may result in irritation to the gastro-intestinal tract.
- 11.5 Chronic Effects: High, repeated exposures in excess of the OES have been linked with rhinitis and coughing. Skin exposure has been linked to allergic (chromium) dermatitis. Allergic dermatitis is more commonly associated with contacting cement/water mixtures than dry cement.

SECTION 12 - ECOLOGICAL INFORMATION

The product is not hazardous to the environment. The addition of Well Cements to water will, however, cause the pH to rise and may therefore be toxic to aquatic life in some circumstances.



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SECTION 13 - DISPOSAL CONSIDERATIONS

- 13.1 Disposal of Waste Materials: Collect dry spillage material as is, harden with water and dispose of product as ordinary concrete.
Do not dispose of into sewage or surface water systems.

SECTION 14 - TRANSPORT/LABEL INFORMATION

Classification for sea or land conveyance is not required.

SECTION 15 - REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation.

Cement is a mixture according to REACH and is not subject to registration. Cement clinker is exempt from registration (art 2.7(b) and Annex V.10 of REACH).

Cement and cement mixtures do not contain more than 2 mg/kg (0.0002%) soluble chromium (VI) of the total dry weight of the cement.

SECTION 16 - OTHER INFORMATION