



MATERIAL SAFETY DATA SHEET

GROUT BAGS

SUPPLIER: CEBO UK LIMITED
BADENTOY ROAD
PORTLETHEN
ABERDEEN AB12 4YA

TELEPHONE: 01224 782020 (24 HOURS)

CONTACT: DUTY MANAGER

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Identification of the Substance: Portland Cement blended with crushed rock including granite, dolerite, limestone and basalt and all types of sand. Blended in the ratio of 1 part cement to 3 parts crushed rock.

Trade Name: Grout Bags.

Product Application: Subsea operations.

SECTION 2 - HAZARDS IDENTIFICATION

Hazards Identification: Irritates Skin (R38).
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). If inhaled in excessive quantities over a prolonged period or extended period, respirable dust can cause a long-term health hazard.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Cement Clinker (30%-35%), Gypsum (1%-1%) and Crushed Rock (65%-70%).

Hazardous Ingredients: The lime, calcium silicates, alkalis and chromium salts within the cement clinker are soluble and when mixed with water will give rise to a potentially hazardous alkaline solution.

SECTION 4 - FIRST AID MEASURES

Inhalation: If irritation occurs, move to fresh air. In cases of inflammation, seek medical advice.

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.

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.

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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SECTION 5 - FIRE FIGHTING MEASURES

Fire Fighting Measures: The blended materials are not flammable and will not facilitate combustion with other materials.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid skin and eye contact, avoid release of dust, and provide for sufficient ventilation and sufficient protection against inhalation.

Environmental Precautions: Ensure spillage does not enter drainage systems.

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

Handling: Avoid dust generation, contact with the eyes and skin. Bagged grout is delivered in 25 Kg sacks. Customers should undertake a manual handling risk assessment, as required by the Manual Handling Regulations (1992), to determine the safest method of handling. Some sacks may have a small amount of cement on the outer surface. Appropriate personal protective clothing should therefore be used whilst handling.

Storage: To protect the cement component of the blended material from premature hydration after delivery, material should be stacked in a dry, safe and stable manner.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupation Exposure Standards: OES 8 Hr Time Weighted Average (TWA).
Total Inhalable Dust 10mg/m³
Respirable Dust 4mg/m³

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.

Personal Protection

- a) Respiratory Protection: Inhalation of grout material 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.

**MATERIAL SAFETY DATA SHEET****GROUT BAGS****SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical and Chemical Properties:

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| Physical State: | Granular solid and 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: | N/A |
| Flash Point: | N/A (not flammable) |
| Explosive properties: | N/A |
| Density: | 2.76-3.20 gm/cc ³ |
| Solubility: | <1.5g/l |

SECTION 10 - STABILITY AND REACTIVITY

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

SECTION 11 - TOXICOLOGICAL INFORMATION

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| Inhalation: | Cement powder may cause inflammation of mucus membranes. |
| Skin Contact: | Cement powder or any cement/water mixture may cause irritant contact dermatitis, allergic (chromium) dermatitis, and/or burns. |
| 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. |
| 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. |
| 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

Disposal of Waste Materials: Dispose of empty bags or surplus dry material to a place authorised to accept builders' waste.
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

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