



MATERIAL SAFETY DATA SHEET

BENTONITE

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

- 1.1 Trade Name: Bentonite (Clay).
- 1.2 Product Application: Gelling Agent in Drilling Fluids.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

- 2.1 Chemical Description: Bentonite.
CAS Number 1302-78-9.

SECTION 3 - HAZARDS IDENTIFICATION

- 3.1 Hazards Identification: Bentonite contains approximately 5% Crystalline Silica. However tests have shown that the amount of Crystalline Silica in the respirable fraction is below the detection limit. (<0,06%).

SECTION 4 - FIRST AID MEASURES

- 4.1 Inhalation: Rest, fresh air. If symptoms develop seek medical advice.
- 4.2 Skin Contact: Wash with water and soap.
- 4.3 Eye Contact: Flush with water for at least 5 minutes. If complaints persists seek medical advice.

SECTION 5 - FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media: Inflammable, all media accepted.
- 5.2 Special Exposure Hazards: Becomes slippery when wet.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- 6.1 Cleaning Up Method: Recover the spillage in a dry state if possible into a waste container. Flush any residue with water.



MATERIAL SAFETY DATA SHEET

BENTONITE

SECTION 7 - HANDLING AND STORAGE

- 7.1. Handling: Avoid the creation of dust.
- 7.2. Storage: Store in bulk silos which should be waterproof and where internal condensation should be minimised.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Occupation Exposure Standards: OES 8 Hr Time Weighted Average (TWA).
Respirable Dust 10mg/m³.
- 8.2 Engineering Measures: Wherever it is reasonably practicable to do so, Bentonite should be stored, handled and transported within enclosed systems. Where this is not the case, 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 Bentonite powder should be avoided. Respiratory protection should be worn where airborne Bentonite powder is present to ensure that personal exposure is less than OES.
 - b) Hands: Cotton or rubber gloves.
 - c) Eye Protection: Dust Proof Goggles should be worn wherever there is a risk of Bentonite powder entering the eye.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Physical and Chemical Properties:
- | | |
|-----------------|-------------------------------|
| Physical State: | Powder. |
| Colour: | Yellowish. |
| Odour: | Odourless. |
| pH: | 9-10. |
| Melting Point: | >1,250°C. |
| Density: | 2400-2800 kg/m ³ . |
| Particle Size: | 0-200 microns. |
| Solubility: | Insoluble. |

SECTION 10 - STABILITY AND REACTIVITY

- 10.1 Stability: Stable.



MATERIAL SAFETY DATA SHEET

BENTONITE

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Inhalation: Irritant.
11.2 Eye Contact: Irritant.
11.3 In LD₅₀(rat): 35mg/kg.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Aquatic Toxicity Rating: Rainbow Trout LC50 – 96 Hrs – 10,000 ppm.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Disposal of Waste Materials: Landfill site licensed to handle non-hazardous chemical waste.

SECTION 14 - TRANSPORT/LABEL INFORMATION

Classification for sea or land conveyance is not required.

SECTION 15 - REGULATORY INFORMATION

15.1 CHIP Classification:
Hazard Indication: No Labelling Required.

SECTION 16 - OTHER INFORMATION