

**CLEAR SOLUTIONS**Performance Drilling Products  
The Earth Can Trust**PRODUCT NAME:** Ultrabore®**Safety Data Sheet No:** 5002EC**1. Identification of the Substances and Details of the Company****Product Description:** Drilling Fluid Additive**Company Name and Address:**Clear Solutions International Ltd  
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UK**Date Prepared:** August 2009**Issue No:** 3**Date Reviewed:** March 2016**Tel:** +44 (0) 1939 235754**Fax:** +44 (0) 1939 232399**Email:** info@drilling-products.com**2. Hazards Identification****Classification of the substance**

Classification Regulation (EC) No 1272/2008: not hazardous

Classification Directive 67/548/EEC, 1999/45/EC: not classified

**Label elements**

Labeling Regulation (EC) No 1272/2008: not classified

**Other hazards**

Not applicable

**3. Composition/Information on Ingredients****Substances**

Chemical nature: Naturally occurring mineral

CAS No. 1302-78-9

Consists mainly of montmorillinite with &lt; 10% accessory minerals (quartz, feldspar, mica and calcite). Respirable Crystalline Silica (&lt;7.1µ) may be present at &lt;1% and therefore not classified as hazardous.

**4. First Aid Measures****Skin Contact:** Rinse thoroughly with cold water and seek medical attention if symptoms persist.**Eye Contact:** Rinse thoroughly with cold water and seek medical attention if symptoms persist.**Inhalation:** Remove person to fresh air, and if symptoms persist seek medical attention.**Ingestion:** Drink several glasses of water or milk. If large quantities are ingested seek medical attention.**5. Fire Fighting Measures****Non combustible** - when extinguishing fires bear in mind product becomes slippery when wet.

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## 6. Accidental Release Measures

**Personal precautions:** Do not breathe dust – see section 8. Becomes slippery when wet.

**Environmental risk:** Non-toxic.

**Cleaning up:** Sweep or vacuum up and dispose of as non-toxic waste.

## 7. Handling and Storage

**Handling:** Avoid the creation of dust, and ensure adequate ventilation at point of use. See section 8.

**Storage:** Store in clean, dry environment.

## 8. Exposure Controls/Personal Protection



**Hand Protection:** Use barrier creams and rubber gloves as required.

**Skin Protection:** Normal work wear.

**Respiratory Protection:** Use dust masks. Ensure adequate ventilation and dust control measures to maintain dust levels below OES\* limit.

\*OES level (Occupational Exposure Standard): Dry bentonite is classed as a nuisance dust with an 8 hour TWA for total dust inhalation of 10mg/m<sup>3</sup> and 5 mg/m<sup>3</sup> for respirable dust. Quartz present in small quantities in this product has a Maximum Exposure Limit (MEL) of 0.4mg/m<sup>3</sup> respirable dust for an 8 hour TWA period. (Respirable dust is that portion with a particle size <7.1µ).

**Eye protection:** Wear safety glasses.

## 9. Physical and Chemical Properties

|                                   |                                |
|-----------------------------------|--------------------------------|
| <b>Appearance:</b>                | Light grey to off-white powder |
| <b>Odour:</b>                     | Odourless                      |
| <b>pH – 2% suspension:</b>        | 7 – 9.5                        |
| <b>S.G:</b>                       | 2.5                            |
| <b>Solubility:</b>                | Forms suspension in water      |
| <b>Decomposition Temperature:</b> | Not Evaluated                  |
| <b>Flammability:</b>              | Non-flammable                  |
| <b>Explosive properties:</b>      | None                           |
| <b>Vapour pressure:</b>           | N/A                            |
| <b>Flash point:</b>               | N/A                            |
| <b>Melting point:</b>             | N/A                            |
| <b>Boiling point:</b>             | N/A                            |

## 10. Stability and Reactivity

**Conditions to avoid:** Avoid generation of dust. Slippery when wet.

**Materials to avoid:** Oxidising agents.

**Hazardous Decomposition Products:** None.

## 11. Toxicological Information

**Ingestion:** Orally non-toxic.



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**Eye contact:** Causes irritation due to physical abrasion by dust particles.

**Eye contact:** Causes irritation due to physical abrasion by dust particles.

**Skin contact:** Non-toxic may cause skin dryness and chapping.

**Inhalation:** Long term exposure to bentonite dust in excess of the OES limit may result in fibrosis of the lung tissue. The presence of respirable crystalline silica may lead to silicosis if the MEL is persistently exceeded over a long time.

## 12. Ecological Information

### Toxicity

LC<sub>50</sub> (96hrs) Rainbow Trout: 16000 mg/l

LC<sub>50</sub> (24hrs) C. dubia and H. limbata: >500 mg/l

## 13. Disposal Considerations

Dispose of in accordance with local and national regulations using an approved disposal contractor.

## 14. Transport information

There are no specific transport precautions required as product is classified as not dangerous but product should be kept dry as it becomes slippery when wet and avoid dust creation.

## 15. Regulatory Information

Dangerous Substances Directive 67/548/EEC and Dangerous Preparations Directive 88/379/EEC do not apply.

Follow safety guidelines S22 – do not breathe dust and use only in well-ventilated areas.

COSHH regulations 2002 apply in the UK.

## 16. Other Information

Typical uses of this product are civil engineering, oil well drilling, ceramics, foundry applications, land fill barriers, bore hole sealing.

*The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, CLEAR SOLUTIONS INTERNATIONAL LTD cannot give guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use.*

