

**CLEAR SOLUTIONS**Performance Drilling Products
The Earth Can Trust**PRODUCT NAME:** Pure-Bore®**Safety Data Sheet No:** 5001GHS**1. Identification of the Substances and Details of the Company****Product Description:** Biodegradable Drilling Fluid**Company Name and Address:**

Clear Solutions International Ltd

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Date Prepared: September 2016**Issue No:** 2**Date Reviewed:** March 2017**Tel:** +44 (0) 1939 235754**Fax:** +44 (0) 1939 232399**Email:** info@drilling-products.com**2. Hazards Identification****Classification of the substance or mixture**

Not classified

GHS Label Elements

Not classified

Other Hazards

None identified

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

Remarks: Non classified proprietary polysaccharide

4. First Aid Measures**Description of first aid measures****Skin:** Wash the skin with soap and water**Eyes:** Remove contact lenses, promptly wash eyes with plenty of water. Obtain medical advice if irritation persists.**Ingestion:** Rinse mouth thoroughly, drink plenty of water. DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Seek medical attention if large amounts ingested.**Inhalation:** Remove from exposure. Keep warm and rest**Most important symptoms and effects, both acute and delayed**

None

Indication of any immediate medical attention and special treatment needed

Not classified

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PRODUCT NAME: Pure-Bore®**Safety Data Sheet No:** 5001GHS**5. Fire Fighting Measures****Extinguishing media**

Carbon dioxide, dry chemical or foam.

Special hazards arising from the substance or mixture

Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting, and eliminate open flame and other sources of ignition.

Advise for firefighters

No special procedures. However, wetted product presents a slip hazard

6. Accidental Release Measures**Personal Precautions**

Wear protective clothing as described in Section 8 of this safety data sheet.

Environment precautions

Prevent further leakage or spillage if safe to do so

Methods and materials for containment and clean up

Product becomes slippery and difficult to handle when wet; spills are best handled while still dry. Sweep up and collect dry product. Absorb wet product with vermiculite or other inert material. Then water wash area to waste treatment to eliminate slip hazard.

7. Handling and Storage**Precautions for safe handling**

Avoid contact with eyes, skin or clothing. Avoid breathing dust. Wash thoroughly after handling. If clothing becomes contaminated, remove and launder or dry-clean before reuse.

Conditions for safe storage

Store in a cool, dry place.

Specific end use(s)

Not applicable

8. Exposure Controls/Personal Protection**Control Parameters**

No OES value known

Exposure Controls

Skin Protection: Avoid unnecessary skin contact. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection: Respiratory protection must be used if air contamination exceeds acceptable level. Use chemical cartridge protection with appropriate cartridge. Gas cartridge suitable for organic substances.

Eye protection: Use approved safety goggles or face shield.

Additional Information: Provide eyewash station(s). Select additional protective equipment (e.g. apron, face shield, etc.) depending on conditions of use.



PRODUCT NAME: Pure-Bore®**Safety Data Sheet No:** 5001GHS**9. Physical and Chemical Properties**

Appearance:	White to off-white free flowing powder
Odour:	Not Applicable
Odour Threshold:	Not Applicable
pH:	6.0 – 8.5 (0.5% solution)
Melting point/Freezing Point:	Not Applicable
Initial boiling point and boiling range:	Not Applicable
Flash point:	Not Applicable
Evaporation rate:	Not Evaluated
Upper/lower flammability or explosion limits:	Not Evaluated
Vapor Pressure (mm Hg):	Not applicable
Vapor Density (Air = 1):	Not applicable
Relative density:	0.50 - 0.95 g/cm ³ (approx.)
Solubility(ies):	Easily soluble in water
Partial coefficient: n-octanol/water	Not Evaluated
Auto-ignition temperature	Not Applicable
Decomposition Temperature:	Not Evaluated
Viscosity:	Not Evaluated

10. Stability and Reactivity**Reactivity**

No specific test data related to reactivity for this product

Chemical Stability

Stable

Possibility of Hazardous Reaction

Under normal conditions of storage and use, hazardous reactions will not occur

Conditions to Avoid

Avoid the creation of dust

Incompatible Materials

Strong oxidants such as liquid chlorine, enriched gaseous or liquid oxygen, and sodium or calcium hypochlorite.

Hazardous Decomposition Products:

None (biodegradable)

11. Toxicological Information**Information on toxicological effects**

Acute Oral Toxicity: Low oral toxicity. Acute Oral LD₅₀ (rat) > 10,000 - 27000mg/kg. No adverse effects have been noted in chronic feeding studies using laboratory animals and humans

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Reproductive Toxicity: No data for product. No effects anticipated.

Teratogenicity: No data for product. No effects anticipated.

Skin Irritation: Dry powder may cause foreign body irritation in some individuals.

Toxicologically Synergistic Products: None known.



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12. Ecological Information

Toxicity

Per 1272/2008/EC: not classified as hazardous to the aquatic environment.

Toxicity to fish: LC50/Oncorhynchus mykiss (Rainbow Trout)/96 hours > 100mg/L

Toxicity to invertebrates: EC50/Daphnia magna/48 hours >100mg/L

Persistence and degradability

Inherently biodegradable

Bioaccumulative Potential

Non bioaccumulating

Mobility in Soil

None

Results of PBT and vPvB Assessment

Does not fulfill the criteria according to Annex XIII of REACH

13. Disposal Considerations

Disposal must be arranged in accordance with local and national regulations

This product is not regarded as hazardous waste

14. Transport information

UN Number: Not regulated

UN Proper Shipping Name: Not applicable

Transport Hazard Classes

Air Transport IATA: Not a dangerous substance as defined in the above regulations.

Inland Navigation ADN: Not a dangerous substance as defined in the above regulations.

Maritime Transport IMDG: Not a dangerous substance as defined in the above regulations.

Road Transport ADR/RID: Not a dangerous substance as defined in the above regulations.

Packing Group: Not applicable

Environmental Hazards: Not applicable

Transport in Bulk: Not applicable

Special Precautions: Non required

15. Regulatory Information

Australian Inventory of Chemical Substances: All the components of this product are listed or exempt from notification requirements.

California Proposition 65: This product contains no chemicals which are currently listed on the California list of Known Carcinogens and Reproductive Toxins

Canadian Inventory: All the components of this product are listed or exempt from notification requirements.

Canadian WHMIS Classification: Not hazardous

CERCLA Section 103 Reportable Quantity: None



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Chemical Weapons Convention (CWC): This product does not contain any chemicals listed under the Chemical Weapons Convention Schedules of Chemicals.

EU Regulation (EC) No. 1907/2006 (REACH): Annex XIV: Not listed

EU Regulation (EC) No. 1907/2006 (REACH): Annex XVII: Not applicable

Germany Water Hazard Class: Non hazardous to water

Integrated Pollution Prevention and Control (IPPC) – Air/Water: Not listed

Japan MITI: All the components of this product are existing chemical substances as defined in the Chemical Substance Control Law

SARA 313: This product contains the following chemicals subject to annual release reporting requirements under the SARA section 313 (40 CFR 372): None

TSCA Section 5(e) – Consent Order / SNUR: This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).

TSCA Section 8(b) – Inventory Status: All chemical(s) comprising this product are either exempt or listed on the TSCA Inventory.

16. Other Information

Recommended Use: Biodegradable Drilling Fluid

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.

