

PRODUCT NAME: Pure-Bore®

Safety Data Sheet No: 5001EC

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# 1. Identification of the Substances and Details of the Company

**Product Description:** Biodegradable Drilling Fluid **Date Prepared:** January 05/2004

Company Name and Address: Date Reviewed: July 2013

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**ENGLAND** 

### 2. Hazards Identification

**Description:** White powder with a slight odor.

Statement of Hazards: This product contains no hazardous ingredients. It is not classified as a

carcinogen according to IARC, OSHA, or NTP.

**Precautionary Measures:** 

**Eye Contact** – Dry powder may cause foreign body irritation in some individuals. Solutions are non-irritating.

**Skin Contact** – Prolonged contact with dry powder may cause drying or chapping of the skin. No evidence of other adverse effects known.

**Inhalation** – No evidence of adverse effects from available information. However, excessive inhalation of dust

may cause irritation and can mechanically impede respiration.

**Ingestion** – No evidence of adverse effects from available information.  $LD_{50}$  is greater than 5000 mg/kg. **Medical Conditions Aggravated by Exposure:** Existing respiratory conditions.

# 3. Composition/Information on Ingredients

#### PRODUCT IDENTIFICATION:

Chemical Name: Natural Polysaccharides

**HMIS Rating:** Health – 0, Flammability - 1, Reactivity - 0, Protective Equipment – See Section 8

CHEMICAL IDENTITY		EXPOSURE LIMITS		
		OSHA PEL (TWA)	ACGIH TLV (TWA)	DFG MAKs (TWA)
		NE	NE	NE
Particulates	Not Otherwise Specified			
(PNOS)	Inhalable Respirable	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup>	4 mg/m <sup>3</sup> 1.5 mg/m <sup>3</sup>



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**OSHA PEL** - OSHA Permissible Exposure Limit, 8 hour Time-Weighted Average **NE** = Not Established **ACGIH TLV** - American Conference of Governmental Industrial Hygienists Threshold Limit Value, 8 hr. TWA, 40 hr. week

**DFG MAK** - Federal Republic of Germany Maximum Concentration Values in the Workplace.

### 4. First Aid Measures

**Eye Contact:** 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. **Skin:** Remove contaminated clothing and launder before re-use. Wash affected area immediately with lots of water. Get medical attention if any discomfort continues.

Inhalation: Move to fresh air. Get medical attention if any discomfort continues.

## 5. Fire Fighting Measures

Flash Point (Method Used): Not Applicable (Warning: combustible dust)

Autoignition Temperature: Not Evaluated

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical or foam.

**Fire Fighting Equipment:** No special procedures. However, wetted product presents a slip hazard. **Fire and Explosion Hazards:** 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.

Hazardous Decomposition Products: None. (Oxides of carbon and nitrogen formed when burned).

#### 6. Accidental Release Measures

**Accidental Release Measures:** 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.

**Personal Precautions:** Wear protective clothing as described in Section 8 of this safety data sheet.

# 7. Handling and Storage

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

**Storage Information:** Store in a cool, dry place.



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# 8. Exposure Controls/Personal Protection





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.

Engineering Controls: Use local exhaust as required to maintain exposures below applicable occupational exposure limits.

Additional Information: Provide eyewash station(s). Select additional protective equipment (e.g. apron,

face

shield, etc.) depending on conditions of use.

## 9. Physical and Chemical Properties

White to off-white free flowing powder **Appearance and Odour:** 

**Odour Threshold:** Not Applicable **Freezing Point:** Not Applicable Vapor Pressure (mm Hg): Not Applicable Vapor Density (Air = 1): Not Applicable **Decomposition Temperature:** Not Evaluated

**Molecular Weight:** 1,000,000 (approx.) **Boiling Point:** Not applicable **Melting Point:** Not applicable **Solubility in Water:** Complete

 $0.3 - 0.80 \, \text{g/cm}^3 \, \text{(approx.)}$ **Bulk Density:** 

**Evaporation Rate:** Not Applicable VOC: Not Evaluated

pH: 6.0 - 8.5 (0.5% solution)

### 10. Stability and Reactivity

Conditions to Avoid: Avoid wet and humid conditions.

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Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: None (biodegradable)

Incompatibility: Strong oxidants such as liquid chlorine, enriched gaseous or liquid oxygen, and sodium

or calcium hypochlorite.

## 11. Toxicological Information

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.

# 12. Ecological Information

**Ecotoxicity:** Product not considered as dangerous for the environment.

### 13. Disposal Considerations

RCRA Hazard Class: This product, when unadulterated, is not classified as hazardous for disposal purposes by RCRA Standards.

Waste Disposal Method: Disposal must be arranged in accordance with local and national regulations.

### 14. Transport information

**DOT – Proper Shipping Name:** Not a DOT/IMO Hazardous Material.

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

**Inland Navigation AND/ADNR:** Not a dangerous substance as defined in the above regulations.

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

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

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15. Regulatory Information

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

CERCLA Section 103 Reportable Quantity: 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.

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

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

**European Inventory of Commercial Chemical Substances:** All the components of this product are listed on the EINECS Inventory or exempt from notification requirements.

**Canadian Environmental Protection Act:** All the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

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

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

Canadian WHMIS Classification: Not hazardous

European Community Labeling Classification: No label required

European Community Risk and Safety Phrases: None

### 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.

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