

**CLEAR SOLUTIONS**Performance Drilling Products
The Earth Can Trust**PRODUCT NAME:** Pure-Bore®**Safety Data Sheet No:** 5001EC

Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 830/2015

1. Identification of the substance/mixture and of the company/undertaking**1.1 Product Identifier**

See Product Name

1.2 Relevant identified uses of the Substance or Mixture and uses advised against

Recommended use: Primary additive for a Biodegradable Drilling Fluid

1.3 Details of the Supplier of the SDS**Company Name and Address:**Clear Solutions International Ltd
Unit B3, Wem Industrial Estate
Soulton Road
Wem
Shropshire SY4 5SD
UK**Date Prepared:** January 2004**Issue No:** 12**Date Reviewed:** May 2020**1.4 Emergency Contact Details****Tel:** +44 (0) 1939 235754**Fax:** +44 (0) 1939 232399**Email:** info@drilling-products.com**2. Hazards Identification****2.1 Classification of the Substance or Mixture**

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

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

2.2 Label Elements

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

2.3 Other Hazards

Non identified

3. Composition/Information on Ingredients**3.1 Substance**

Not applicable

3.2 Mixture

Remarks: Non classified proprietary polysaccharide

Hazardous Components: contains no reportable hazardous components

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4. First Aid Measures

4.1 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

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

Not classified

5. Fire Fighting Measures

5.1 Extinguishing media

Carbon dioxide, dry chemical or foam.

5.2 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.

5.3 Advise for firefighters

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

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Avoid dust formation; avoid breathing dust

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

6.2 Environment precautions

Prevent further leakage or spillage if safe to do so

6.3 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.

6.4 Reference to other sections

Section 8

7. Handling and Storage

7.1 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.

7.2 Conditions for safe storage

Store in a cool, dry place.



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Not applicable

8. Exposure Controls/Personal Protection**8.1 Control Parameters**

No OES value known

8.2 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.

9. Physical and Chemical Properties**9.1 Information on basic 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

9.2 Other information

Not applicable

10. Stability and Reactivity**10.1 Reactivity**

No specific test data related to reactivity for this product

10.2 Chemical Stability

Stable



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10.3 Possibility of Hazardous Reaction

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

10.4 Conditions to Avoid

Avoid the creation of dust

10.5 Incompatible Materials

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

10.6 Hazardous Decomposition Products:

None (biodegradable)

11. Toxicological Information

11.1 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.

12. Ecological Information

12.1 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

12.2 Persistence and degradability

Inherently Biodegradable

12.3 Bioaccumulative Potential

Non bioaccumulating

12.4 Mobility in Soil

None

12.5 Results of PBT and vPvB Assessment

Does not fulfill the criteria according to Annex XIII of REACH

12.6 Other adverse effects

None

13. Disposal Considerations

13.1 Waste Treatment Methods

Disposal must be arranged in accordance with local and national regulations

This product is not regarded as hazardous waste



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14. Transport information

14.1 UN Number

Not regulated

14.2 UN Proper Shipping Name

Not applicable

14.3 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.

14.4 Packing Group

Not applicable

14.5 Environmental Hazards

Not applicable

14.6 Special Precautions for User

Non required

14.7 Transport in Bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

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 at a concentration of $\leq 3\%$ else WGK 1

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.

15.2 Chemical safety assessment

No data available



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16. Other Information

Issue 11: amend sub-heading titles per REACH Annex II

Issue 12: section 3.2 confirmation contains no reportable hazardous components

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