

# Pure-Bore®

THE DRILLING FLUID FOR A CLEANER TOMORROW

|                                 |   |                          |                                |
|---------------------------------|---|--------------------------|--------------------------------|
| <b>Description</b>              | Pure-Bore® is a natural biodegradable drilling fluid, which can be used in a wide variety of drilling applications. Specially produced, dry free flowing polymer, Pure-Bore® provides exceptional bore hole stability and cuttings removal in a wide range of ground conditions.  |                          |                                |
| <b>Functions</b>                | Biodegradable drilling fluid.<br>Effective in all ground conditions (one sack drilling fluid).<br>High viscosity for efficient hole cleaning.<br>High yield point and gel strength for maximum cuttings suspension and transport.<br>Generates a tight filter cake and provides exceptional bore hole stability in unconsolidated formations.<br>Provides clay and shale inhibition.<br>Minimises formation damage.<br>Maximises production rates.<br>Can be cleaned down through regular de-sanders.   |                          |                                |
| <b>Benefits</b>                 | Environmentally friendly, non-toxic drilling fluid.<br>Fast and efficient mixing in salt or fresh water.<br>Stable whilst drilling.<br>Recycles through standard de-sanding/de-silting equipment.<br>Minimises formation damage for improved well development.<br>Better formation samples.<br>Reduced swelling clay problems<br>Reduced abrasive wear<br>Increased penetration rate<br>Reduced power / fuel costs<br>3 Kilos of Pure-Bore® provides the same viscosity as 60 Kilos of civil engineering grade bentonite or 25 Kilos of high yield bentonite<br>Naturally biodegrades (stabiliser can be added to retard biodegradation)<br>Can be chemically destroyed with calcium hypochlorite<br>Low cost slurry disposal. Destroy or Biodegrade the Pure-Bore® polymer to settle out drilled cuttings in a settlement pit. The fluid phase can then be treated at a sewage treatment works leaving semi dry cuttings |                          |                                |
| <b>Recommended Treatment</b>    | Add slowly and uniformly through a high-shear venturi type hopper. Continue to agitate/circulate until Pure-Bore® is fully dispersed  |                          |                                |
| <b>Pure-Bore® Mixing Ratios</b> |   | kg/M3                    | lbs/100 US Gal                 |
| <b>Pure-Bore® Degradation</b>   | Consolidated Formation (Clay/Shale)<br>Unconsolidated Formation (Sand/Gravel)   | 2 – 4 kg's<br>3 - 7 kg's | 1.6 – 3.3 lbs<br>2.4 – 5.6 lbs |
| <b>Pure-Bore® Degradation</b>   | Calcium hypochlorite (65% active)   | 1 – 3 kg's               | 0.8 – 2.5 lbs                  |
| <b>Packaging</b>                | Pure-Bore® is packaged in 5kg plastic bags (5 x 5kg bags per cardboard case)  |                          |                                |

The information and data contained herein are believed to be accurate and reliable. Clear Solutions International Limited makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information.