Cementing

**CleanBore B™ Surfactant**

The CleanBore system consists of four fluids that help provide quick and effective cleanout of oil-based mud (OBM) so that perforating or production in completion operations can begin. The following fluids are used in the system:

- spacer pill
- gel pill
- brine pill
- solvent pill

CleanBore B™ surfactant is added to the spacer pill to enhance the cleanout of oil substrates through an ultra-low interfacial tension. The addition of the surfactant also helps prevent the formation of highly viscous emulsions that could affect fluid transport and increase pumping pressure.

**Features**

CleanBore B surfactant is a clear, colorless liquid packaged in 5-gal pails. It is environmentally friendly and biodegradable.

**Benefits**

When used with the CleanBore system, CleanBore B surfactant provides the following benefits:

- It helps leave the pipe and formation in a water-wet condition.
- It helps provide effective wellbore cleaning.
- It is environmentally friendly.

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**CleanBore B™ Surfactant—Product Properties**

<table>
<thead>
<tr>
<th>Part No. (5-gal can)</th>
<th>100003847</th>
<th>Flash Point</th>
<th>280°F (137°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Clear, colorless liquid</td>
<td>Boiling Point</td>
<td>&gt;400°F (&gt;204°C)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.930</td>
<td>Packaging</td>
<td>5-gal pail</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>7.75 lb/ft³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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HALLIBURTON
For more information on the benefits CleanBore B™ Surfactant can bring to your cementing operations, contact your local Halliburton representative.