Normal treatments range from 1 gal. per 1000 gallons of mud will provide satisfactory performance under most conditions. Higher concentrations can cause thinning of the mud system and reduce the ability of bentonite to yield. Care should be used to not over treat.

**PRODUCT DESCRIPTION:**

**DET FORCE** is a water-soluble surfactant designed to reduce the surface tension of all water-base mud systems and reduce the sticking tendency of water-sensitive clays.

It is used in all drilling areas and can be effective in virtually any water-base drilling fluid. It is used primarily in HDD crossings to minimize bit balling, reduce surface tension, and aid in dropping sand and removing drill solids.

**APPLICATIONS AND USE:**

Normal treatments range from 1 gal. per 1000 gallons of mud will provide satisfactory performance under most conditions. *Higher concentrations can cause thinning of the mud system and reduce the ability of bentonite to yield. Care should be used to not over treat.*

**PRODUCT ADVANTAGES:**

- Reduces surface tension, helping to drop sand and remove solids
- Minimizes bit and BHA balling
- Reduces sticking of reactive shale cuttings
- Environmentally friendly

**PHYSICAL PROPERTIES:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Pink liquid</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>0.95 – 1.0</td>
</tr>
<tr>
<td>Viscosity, cps:</td>
<td>100 - 400</td>
</tr>
</tbody>
</table>

**PACKAGING:**

**DET FORCE** is packaged in the following:

- 5-gallon buckets, 32 buckets to a pallet