Legend™ LD-7645 and LD-7645W Surfactant

OVERVIEW
Legend™ LD-7645 and LD-7645W surfactants are non-emulsifiers for use in aqueous hydraulic fracturing fluids.

APPLICATIONS
LD-7645 and LD-7645W surfactants are for use in stimulation fluids to lower the surface tension of the treating fluid. LD-7645 and LD-7645W surfactants also have shown to be an effective non-emulsifier for a variety of crude oils. These surfactants can be used in sandstone, carbonate, and shale formations.

LD-7645 has a freezing point of 30°F (-1°C) and LD-7645W has a freezing point of 15°F (-10°C).

Product Specifications

<table>
<thead>
<tr>
<th>Form</th>
<th>Clear</th>
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<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.019</td>
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<tr>
<td>Bulk Density</td>
<td>8.49 lb/gal</td>
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<tr>
<td>Flash Point</td>
<td>&gt;220°F (104°C)</td>
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COMPATIBILITIES
LD-7645 and LD-7645W surfactants may cause defoaming which can affect energized or foamed fluid systems.

FEATURES/BENEFITS
- Relatively high flash point compared to similar products
- Formulated to remove NPEs and 2-BE
- Nonionic; thus, it is compatible with most other fluid additives
- Can be used in carbonate, sandstone, and shale formations because of its nonionic character
For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com/multichem

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