**MUL S** secondary emulsifier

Helps maintain a tight HPHT fluid loss

**Applications**
- Prevents water in the filtrate
- Improves brine-in-oil emulsion characteristics
- Helps provide thermal stability

**How it improves wells**
MUL S* secondary emulsifier for oil-based fluid systems produces a stable invert emulsion with preferential wetting of solids by the continuous oil phase and helps maintain a tight HPHT fluid loss. Initial treatments normally range from 1 to 3 lbm/bbl depending on the type of base oil, total solids loading, desired properties, and other components of the system. Daily treatments enhance the emulsion characteristics of these systems.

**How it works**
MUL S emulsifier produces a stable invert emulsion over a wide range of oil/water ratios and temperatures between 250 degF and 300 degF when used with an appropriate organophilic clay, an HPHT filtration control additive, and a primary emulsifier such as MUL P* primary emulsifier. Pilot testing is recommended to determine the right treatment.

**Toxicity and handling**
Handle as an industrial chemical, wearing protective equipment and observing the precautions as described in the Safety Data Sheet (SDS).

**Packaging and storage**

<table>
<thead>
<tr>
<th>Typical Physical Properties</th>
<th></th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Dark liquid</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.85–0.95</td>
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</tbody>
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All specifications are subject to change without notice.