The **EPI-MUL™ emulsifier** from Baker Hughes, a GE company (BHGE), is a high-performance, oil-soluble polyamide and fatty acid blend used as an emulsifier in diesel or mineral oil-based invert emulsion fluid systems.

The EPI-MUL additive can also function as a wetting agent by adsorbing onto mineral surfaces, reducing interfacial surface tension, and rendering oil-wet MIL-BAR™ weight materials and drilled solids. EPI-MUL additive can also be used to treat water contamination.

Unlike soap surfactants, the EPI-MUL emulsifier does not require lime hydrate to function effectively and is an ideal surfactant for low-colloid, relaxed invert systems.

The EPI-MUL emulsifier is recommended for use in wells with bottom hole temperatures below 275°F (135°C) but can be used, in conjunction with organophilic clay, lime and filtration control additives, to build formulations that withstand temperatures in excess of 275°F (135°C).

**Recommended treatment**
Concentrations will vary depending on oil-water ratio and desired fluid properties such as electrical stability. Treatments of 6.0 to 12.0 lb/bbl (17.1 to 34.2 kg/m³) are effective for most applications.

**Environmental information**
For information concerning environmental regulations applicable to BHGE drilling fluids products, contact the BHGE Health, Safety, and Environment department.

**Shipping**
Transportation of the EPI-MUL additive is not restricted by either US or international regulatory agencies.

**Safe handling recommendations**
Use normal precautions for employee protection when handling products. Utilize appropriate personal protective equipment (PPE) for employee comfort and protection. See the product’s safety data sheet (SDS) prior to use.

**Packaging**
The EPI-MUL emulsifier is packaged in 55-gal (208.2-L) non-returnable drums.

**Typical properties**
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Dark liquid</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.90 to 0.99</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;85°C (&gt;185°F)</td>
</tr>
</tbody>
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