TERGITOL™ 15-S-3 Surfactant
Nonionic Secondary Alcohol Ethoxylate

Benefits

- Excellent hydrocarbon compatibility and detergency
- Excellent oil soluble emulsifier
- Superior handling properties

Applications

- Defoamers
- Textile
- Pulp & paper
- Agrochemicals
- Dry cleaners
- Prewash spot removers

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actives, wt%</td>
<td>100</td>
</tr>
<tr>
<td>Cloud Point</td>
<td>insoluble</td>
</tr>
<tr>
<td>HLB</td>
<td>8.0</td>
</tr>
<tr>
<td>Moles EO</td>
<td>3</td>
</tr>
<tr>
<td>Pour Point</td>
<td>-46</td>
</tr>
<tr>
<td>Appearance</td>
<td>Pale yellow liquid</td>
</tr>
<tr>
<td>Viscosity at 25°C (77°F), cP</td>
<td>49</td>
</tr>
<tr>
<td>Density at 20°C (68°F), g/mL</td>
<td>0.918</td>
</tr>
<tr>
<td>Flash Pt, Closed Cup, ASTM D93</td>
<td>173°C 345°F</td>
</tr>
</tbody>
</table>

1 Cloud point: °C, 1 wt% actives aqueous solution
2 HLB Range: <10 w/o emulsifier, > 10 o/w emulsifier, 10-15 good wetting, 12-15 detergents
3 Pour point: °C

Typical Performance Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMC</td>
<td>Ins</td>
</tr>
<tr>
<td>Surface Tension</td>
<td>Ins</td>
</tr>
<tr>
<td>Foam Height</td>
<td>Ins</td>
</tr>
</tbody>
</table>

1 Critical Micelle Concentration: ppm at 25°C
2 Surface Tension: dynes/cm at 1% actives, 25°C
3 Ross-Miles foam height: mm at 0.1 wt% actives, 25°C, initial / 5 minute

Solubility and Compatibility

- Insoluble in water
- Soluble in chlorinated solvents and most organic solvents and oils
- Chemically stable in the presence of dilute acids, bases, and salts
- Compatible with anionic, cationic, and other nonionic surfactants
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