ECOSURF™ EH-6 Surfactant
Product Information

Chemical Description

Name: Alcohol Ethoxylate
Surfactant Type: Nonionic

Benefits

- Superior wetting
- Excellent oily soil removal
- Rapid dissolution & good rinseability
- Low odor
- No gel range
- Outstanding formulation & handling properties
- Readily biodegradable
- Aquatic toxicity EC₅₀ > 10 mg/L

Applications

This product is suitable for use in applications such as:

- Hard surface cleaners
- High performance cleaners
- Concentrates
- Paints & coatings
- Pulp & paper
- Textile
- Agrochemicals

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cloud Point</td>
<td>43</td>
</tr>
<tr>
<td>Cloud Point</td>
<td>40°C</td>
</tr>
<tr>
<td>HLB</td>
<td>10.8</td>
</tr>
<tr>
<td>Moles EO</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Pour Point</td>
<td>5°C</td>
</tr>
<tr>
<td>Appearance</td>
<td>Pale yellow liquid</td>
</tr>
<tr>
<td>pH, 1% aq solution</td>
<td>6.2</td>
</tr>
<tr>
<td>Viscosity at 40°C (104°F), cSt</td>
<td>36.830</td>
</tr>
<tr>
<td>Density at 20°C (104°F), g/mL</td>
<td>0.9897</td>
</tr>
<tr>
<td>Flash Pt, Closed Cup, ASTM D93</td>
<td>263°C 505°F</td>
</tr>
</tbody>
</table>

1 Cloud point: °C, 10 wt% actives aqueous solution in 25:75 Butyl Carbitol:Water
2 Cloud point: °C, 1 wt% active aqueous solution
3 HLB Range: < 10 w/o emulsifier, >: 10 o/w emulsifier, 10-15 good wetting, 12-15 detergents
4 Pour point: °C
### Typical Performance Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMC(^5)</td>
<td>914</td>
</tr>
<tr>
<td>Surface Tension(^6)</td>
<td>30</td>
</tr>
</tbody>
</table>

\(^5\) Critical micelle concentration: ppm at 25°C  
\(^6\) Surface tension: dynes/cm at 1% actives, 25°C

### Solubility and Compatibility

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

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