ZOHARSOFT TEQ 90

ZOHARSOFT TEQ 90 is a readily biodegradable cationic softener based on quaternised ester derived from triethanolamine.

The structural formula is:

\[
\begin{align*}
\text{O} & \quad \parallel \\
\text{R} - \text{C} - \text{O} - \text{H}_2\text{C} - \text{H}_2\text{C} & \quad \text{CH}_2 - \text{CH}_2 - \text{OH} \\
\text{R} - \text{C} - \text{O} - \text{H}_2\text{C} - \text{H}_2\text{C} & \quad \text{CH}_3 \\
\text{O} & \\
\text{R} = \text{C}_{16}\text{-C}_{18}
\end{align*}
\]

CTFA Name: Methyl bis (ethyl alkyl) – 2 – Hydroxyethyl Ammonium Methyl Sulfate

TENTATIVE SPECIFICATION:

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance at 20°C</td>
<td>Semisolid paste</td>
</tr>
<tr>
<td>Appearance at 45°C</td>
<td>Yellowish liquid</td>
</tr>
<tr>
<td>Active matter</td>
<td>appr. 90%</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>appr. 10%</td>
</tr>
<tr>
<td>pH 5% solution</td>
<td>2.5-3.5</td>
</tr>
<tr>
<td>Character</td>
<td>Cationic</td>
</tr>
</tbody>
</table>

PROPERTIES AND USES:
ZOHARSOFT TEQ 90 is a concentrated base for the production of rinse cycle fabric softeners for both domestic and commercial laundries. It is also used in cationic auxiliaries for the textile industry.

ZOHARSOFT TEQ 90 can be easily formulated into high active stable dispersions. It gives good soft handle to natural and synthetic fabrics, good antistatic and rewetting properties. ZOHARSOFT TEQ 90 is environmentally friendly due to its high degree of biodegradability.

PACKAGING AND STORAGE:
ZOHARSOFT TEQ 90 is supplied in open top plastic drums. It should be stored under cover and should not be exposed to temperatures higher than 40°C since it is susceptible to darkening if stored at high temperatures for long time.

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