**Name**  
ULTRA LIQUID LAUNDRY DETERGENT  
**No.**  
658  
**Description**  
ALPHA-STEP® MC-48 is an excellent soap solubilizer that can make high soap levels possible in finished products.  
**Formulation**  
**INGREDIENTS:**  
<table>
<thead>
<tr>
<th>Ingot</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPHA-STEP® MC-48</td>
<td>29.0</td>
</tr>
<tr>
<td>Sodium Oleate</td>
<td>5.0</td>
</tr>
<tr>
<td>BIO-SOFT® N25-7</td>
<td>19.0</td>
</tr>
<tr>
<td>Borax</td>
<td>1.3</td>
</tr>
<tr>
<td>Ethanol</td>
<td>0.5</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>5.0</td>
</tr>
<tr>
<td>PVP K-15 (antiredeposition agent)</td>
<td>0.8</td>
</tr>
<tr>
<td>Water, Fragrance, &amp; Dye</td>
<td>q.s. to 100.0</td>
</tr>
</tbody>
</table>

**Total**  
100.0

**Procedure**  
Charger Water. Then add ALPHA-STEP® MC-48, Propylene Glycol, and BIO-SOFT® N25-7 while mixing until solution is homogeneous. Heat to approximately 50°C, add Sodium Oleate and mix until solution is again homogeneous. Allow mixture to cool to room temperature and add the remaining ingredients with mixing. Adjust pH with caustic soda or citric acid, if necessary.

**Physical Properties**  
- **pH, as is:** 8–10  
- **Viscosity at 25°C, cps:** 200–350  
- **Density, lbs/gal:** 8.6  
- **Appearance at 25°C:** Clear, light yellow liquid

**Instructions for Use**  
Use 1/3 cup per normal-size washload

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ALPHA-STEP®

For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe). For ordering assistance, call our Account Service Department at 1-800-457-7673.

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Stapen Company