**O/W Sunscreen Lotion**

**Formulary Data**

**DESCRIPTION:** In this formula **PERFORMA V™ 6038 polymer** boosts SPF and provides film forming benefits. The formula applies smoothly, evenly and provides a moisturizing feel while leaving skin feeling soft and protected from the sun.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>% By Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phase 1</strong></td>
<td></td>
</tr>
<tr>
<td>Glyceryl Stearate (and) PEG-100 Stearate</td>
<td>4.00</td>
</tr>
<tr>
<td>Polysorbate-20</td>
<td>2.00</td>
</tr>
<tr>
<td>Octinoxate</td>
<td>7.50</td>
</tr>
<tr>
<td>Oxybenzone</td>
<td>4.00</td>
</tr>
<tr>
<td>Octisalate</td>
<td>5.00</td>
</tr>
<tr>
<td>Cetearyl Alcohol</td>
<td>0.75</td>
</tr>
<tr>
<td>C12-15 Alkyl Benzoate</td>
<td>5.00</td>
</tr>
<tr>
<td><strong>PERFORMA V™ 6038 polymer</strong> (Synthetic Wax)</td>
<td>2.00</td>
</tr>
<tr>
<td><strong>Phase 2</strong></td>
<td></td>
</tr>
<tr>
<td>Deionized Water</td>
<td>52.15</td>
</tr>
<tr>
<td>Disodium EDTA</td>
<td>0.10</td>
</tr>
<tr>
<td>Carbomer (2%)</td>
<td>12.00</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>4.00</td>
</tr>
<tr>
<td><strong>Phase 3</strong></td>
<td></td>
</tr>
<tr>
<td>Triethanolamine 99%</td>
<td>0.50</td>
</tr>
<tr>
<td><strong>Phase 4</strong></td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol (and) Diazolidinyl Urea (and)</td>
<td></td>
</tr>
<tr>
<td>Methylparaben (and) Propylparaben</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**PROCEDURE:**
1) Separately heat Phase 1 and Phase 2 to -80°C with moderate mixing.
2) At 80°C add Phase 1 to Phase 2 with moderate mixing.
3) Hold temperature and continue to mix for ten minutes.
4) Cool with mixing to 45°C.
5) At 45°C add Phase 3, mixture will thicken.
6) Add Phase 4 and fill containers.

1 Carbopol 940 - Lubrizol

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