Sprayable Lotion for Pump Sprays - 1128

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Function</th>
<th>Percent</th>
<th>Wgt (g)</th>
<th>Wgt (oz)</th>
<th>Vol (tsp.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phase A</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triglyceride (caprylic / capric triglyceride)</td>
<td></td>
<td>6.00</td>
<td>6.00</td>
<td>0.21</td>
<td>1.20</td>
</tr>
<tr>
<td>Octocrylene (octocrylene)</td>
<td></td>
<td>4.00</td>
<td>4.00</td>
<td>0.14</td>
<td>0.80</td>
</tr>
<tr>
<td>OM-Cinnamate (octyl methoxycinnamate)</td>
<td></td>
<td>7.50</td>
<td>7.50</td>
<td>0.26</td>
<td>1.50</td>
</tr>
<tr>
<td>Cyclo-Dimethicone (cyclomethicone, dimethicone)</td>
<td></td>
<td>1.50</td>
<td>1.50</td>
<td>0.05</td>
<td>0.30</td>
</tr>
<tr>
<td>GelMaker EMU (sodium acrylate / sodium acryloildimethyl taurate copolymer, isohexadecane, polysorbate 80)</td>
<td></td>
<td>0.20</td>
<td>0.20</td>
<td>0.01</td>
<td>0.04</td>
</tr>
<tr>
<td>Vitamin E Acetate (dl-alpha tocopheryl acetate)</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
<td>0.04</td>
<td>0.20</td>
</tr>
<tr>
<td><strong>Phase B</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distilled Water (aqua)</td>
<td></td>
<td>63.00</td>
<td>63.00</td>
<td>2.22</td>
<td>12.60</td>
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<tr>
<td>EDTA (tetrasodium ethylenediaminetetraacetic acid tetrasodium salt)</td>
<td></td>
<td>0.20</td>
<td>0.20</td>
<td>0.01</td>
<td>0.04</td>
</tr>
<tr>
<td>Glycerin (glycerin)</td>
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<td>4.00</td>
<td>4.00</td>
<td>0.14</td>
<td>0.80</td>
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<tr>
<td>PEG-7 Glyceryl Cocoate (PEG-7 glyceryl monococote)</td>
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<td>5.00</td>
<td>5.00</td>
<td>0.18</td>
<td>1.00</td>
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<tr>
<td>Titanium Dioxide, Micronized (titanium dioxide [CI 77891])</td>
<td></td>
<td>4.00</td>
<td>4.00</td>
<td>0.14</td>
<td>0.80</td>
</tr>
<tr>
<td>Aloe Vera 10x Concentrate (aloe barbadensis)</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
<td>0.04</td>
<td>0.20</td>
</tr>
<tr>
<td><strong>Phase C</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allantoin (allantoin)</td>
<td></td>
<td>0.30</td>
<td>0.30</td>
<td>0.01</td>
<td>0.06</td>
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<tr>
<td>Vitamin A (retinyl palmitate)</td>
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<td>1.00</td>
<td>1.00</td>
<td>0.04</td>
<td>0.20</td>
</tr>
<tr>
<td>Paraben-DU (propylparaben, methylparaben, diazolidinyl urea, propylene glycol)</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
<td>0.04</td>
<td>0.20</td>
</tr>
<tr>
<td>Fragrance Citrus Punch</td>
<td></td>
<td>0.30</td>
<td>0.30</td>
<td>0.01</td>
<td>0.06</td>
</tr>
</tbody>
</table>

**Method**

This lotion can be processed at room temperature (no heating required). Give phase A into a clean and disinfected glass beaker and stir until the ingredients are well mixed. Prepare phase B in separate glass beaker. Add the EDTA until dissolved in the water, then add all other ingredients in order, stir after each ingredient. The titanium dioxide needs patience until “wet”. Add phase A to phase B and stir thoroughly until uniform. Before adding phase C dissolve the allantoin in 1 tsp of distilled water, then add to phase A/B. Add the remaining ingredients of phase C to phase A/B and mix again well. If the sunscreen is too thick, GelMaker EMU can be reduced or omitted. However if this sprayable sunscreen should become a thicker lotion then GelMaker EMU can be increased (e.g 2-3%)

**Properties**

This sunscreen lotion provides UVA and UVB protection.