Formulation

WATERLESS HAND CLEANER #2 WITH STEPOSOL® SB-W AND D-LIMONENE (75:25)

No. 924

Description Waterless hand cleaner used to remove grease, dirt, and ink from hands without the use of soap.

Formulation

**INGREDIENTS:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized Water</td>
<td>q.s. to 100</td>
</tr>
<tr>
<td>MAKON® 10</td>
<td>11.0</td>
</tr>
<tr>
<td>NINOL® 11-CM</td>
<td>4.0</td>
</tr>
<tr>
<td>STEPOSOL® SB-W*</td>
<td>25.5</td>
</tr>
<tr>
<td>Oleic Acid</td>
<td>1.6</td>
</tr>
<tr>
<td>Triethanolamine, 85%</td>
<td>0.4</td>
</tr>
<tr>
<td>d-Limonene</td>
<td>8.5</td>
</tr>
<tr>
<td>Preservative</td>
<td>q.s.</td>
</tr>
</tbody>
</table>

**Total**

100.0

**Procedure**

Add Oleic acid, Triethanolamine, MAKON® 10, NINOL® 11-CM, d-Limonene, and STEPOSOL® SB-W together and mix until clear. Heat to 70°C-80°C. Slowly add Deionized Water with mixing. Once dispersed, begin cooling to room temperature. A thick gel will form.

**Physical Properties**

- **Appearance at 25°C**: Ringing gel
- **pH, 10% in IPA**: 7.5 - 9.0
- **Viscosity at 50°C, cps**: 3000 - 4000
- **Density at 50°C, lbs./gal**: 7.32
- **Flash Point (PMCC), °F**: 201

**Storage/Stability**

- 1 Month at 4°C: Stable
- 1 Month at 25°C: Stable
- 1 Month at 50°C: Stable
- Freeze/Thaw, 10 Cycles: Pass

**Instructions for Use**

Apply a small amount to hands. Rub and rinse off and/or wipe off.

**External Comment**

* Using either STEPOSOL® SB-D or STEPOSOL® SB-W will produce differences in color or odor. STEPOSOL® SB-D will produce a lighter color and STEPOSOL® SB-W will produce a lower odor.

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- MAKON®
- NINOL®
- STEPOSOL®

**For Additional Assistance**

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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