DILUTABLE DEGREASER

No. 1098

Description: This low VOC water-based degreaser can be diluted up to a 1-to-8 ratio with water to effectively remove oily soils from household surfaces such as stovetops, walls, and floors.

Formulation:

**INGREDIENTS:**

<table>
<thead>
<tr>
<th>Phase 1</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized Water</td>
<td>82.0</td>
<td>Diluent</td>
</tr>
<tr>
<td>BIO-TERGE® PAS-8S</td>
<td>10.0</td>
<td>Hydrotrope</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Phase 2</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-SOFT® N91-6</td>
<td>2.0</td>
<td>Wetting Agent, Emulsifier</td>
</tr>
<tr>
<td>BIO-SOFT® N1-7</td>
<td>2.0</td>
<td>Wetting Agent, Emulsifier</td>
</tr>
<tr>
<td>Sodium Metasilicate</td>
<td>2.0</td>
<td>Builder</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>2.0</td>
<td>Builder</td>
</tr>
</tbody>
</table>

**Total:** 100.0

Procedure:
1. Charge water and BIO-TERGE® PAS-8S.
2. With good agitation, slowly blend in remaining ingredients.
3. Mix until homogenous.

Physical Properties:

- **Appearance:** Clear liquid
- **pH, as is:** 12.5
- **Viscosity:** Water thin
- **% VOC, as is:** 0.4
- **% VOC at 1:8 dilution:** <0.05

Storage/Stability:
- Freeze thaw, 3 cycles: Pass
- 1 month at 50°C: Stable
- 1 month at 25°C: Stable
- 1 month at 5°C: Stable

Instructions for Use:
Dilute before use. Saturate sponge or cloth and wipe surface clean. For tough soils, use full strength.

Gardner Straightline Washability Test, SM 250-0 (ASTM D4488-95-A5): 1:1 dilution = 100% soil removed; 1:4 dilution = 97% soil removed; 1:8 dilution = 88% soil removed.

External Comment:
Marketing Notes: This formulation is VOC compliant with all U.S. Federal and State VOC standards per the California Air Resource Board regulations for degreasers (as of July 2009). BIO-TERGE® PAS-8S and BIO-SOFT® N91-6 are approved ingredients on www.cleangredients.org. This formulation does not contain nonylphenol ethoxylates (NPEs).

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- BIO-TERGE®
- BIO-SOFT®
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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