### Formulation

**I&I ALL-PURPOSE CLEANER ULTRA CONCENTRATE**

**Name**  
1174

**No.**

**Description**  
This Industrial and Institutional all-purpose cleaner is an ultra concentrate dilutable down to 1 ounce per gallon. It is a blend of anionic and nonionic surfactants that when diluted, effectively removes general particulate and oily soils. Its mild alkalinity makes it safe for many types of surfaces.

**Formulation**

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-SOFT® N91-6</td>
<td>5.0</td>
<td>Emollient</td>
</tr>
<tr>
<td>BIO-SOFT® D-40</td>
<td>39.4</td>
<td>Anionic Agent</td>
</tr>
<tr>
<td>BIO-TERGE® PAS-8S</td>
<td>5.0</td>
<td>Hydro trope</td>
</tr>
<tr>
<td>Sodium Citrate</td>
<td>0.6</td>
<td>Builder</td>
</tr>
<tr>
<td>Deionized Water</td>
<td>50.0</td>
<td>Diluent</td>
</tr>
</tbody>
</table>

**Total**  
100.0

**Procedure**

1. Charge Deionized Water.
2. With good agitation, dissolve Sodium Citrate.
5. Mix until homogenous.

**Physical Properties**

- **Appearance, as is**: Clear liquid
- **pH, as is**: 7.8–8.5
- **Viscosity at 25°C**: Water thin

**Storage/ Stability**

- **Freeze thaw, 3 cycles**: Pass
- **25°C (1 month)**: Pass
- **50°C (1 month)**: Pass
- **4°C (cold storage, 1 month)**: Pass

**Instructions for Use**

For light, general maintenance cleaning, dilute 1:128 or 1 ounce/gallon. Spray onto surface and wipe with a clean cloth.

**Test Method**: Gardner Straightline Test, SM 250-0 (ASTM D4488-95-A5), ASTM Book of Standards, Volume 15.04, D4488-95, Section A5

**Dilution Results (1:128)**: 72% soil removed

**External Comment**

Marketing Notes: BIO-SOFT® N91-6, BIO-SOFT® D-40 and BIO-TERGE® PAS-8S are approved ingredients on www.clearegredients.org. For further information, visit: www.clearegredients.org or Stepan's website. This formulation does not contain Nonylphenol Ethoxylates (NPEs).

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- BIO-SOFT®
- BIO-TERGE®
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For ordering assistance, call our Account Service Department at 1-800-457-7673.
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