**Name**
NATURALLY-DERIVED ALL-PURPOSE DEGREASER

**No.**
1209

**Description**
This ready-to-use cleaner contains ingredients based on bio-renewable resources. The combination of anionic and nonionic surfactants are effective in cleaning particulate, grimy soils as well as oily, greasy ones. The STEPOSOL® amides provide solvo-surfactant properties, helping to both clean and penetrate soils, eliminating the need for high-VOC solvents.

**Formulation**

**INGREDIENTS:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized Water</td>
<td>89.6</td>
<td>Carrier</td>
</tr>
<tr>
<td>STEPANOL® WA-EXTRA HP</td>
<td>7.0</td>
<td>Cleansing Agent</td>
</tr>
<tr>
<td>BIO-SOFT® EC-690</td>
<td>1.2</td>
<td>Emulsifier, Cleansing Agent</td>
</tr>
<tr>
<td>STEPOSOL® MET-10U</td>
<td>2.0</td>
<td>Surfactant/Solvent</td>
</tr>
<tr>
<td>Sodium Citrate</td>
<td>0.2</td>
<td>Builder</td>
</tr>
<tr>
<td>Citric Acid, anhydrous</td>
<td>q.s. to pH=6.5-7.5</td>
<td>pH Adjuster</td>
</tr>
<tr>
<td>Fragrance, Preservative and Dye</td>
<td>q.s.</td>
<td>Additives</td>
</tr>
</tbody>
</table>

**Total**

100.0

**Procedure**
1. Charge Deionized Water.
2. With good agitation, slowly blend in BIO-SOFT® EC-690.
3. Once clear, add STEPANOL® WA-EXTRA HP.
4. When blended, add Sodium Citrate.
5. Once dissolved, add STEPOSOL® MET-10U.
6. Adjust pH to between 6.5 and 7.5 with Citric Acid.
7. Add Fragrance, Preservative and Dye as needed.
8. Mix until homogenous.

**Physical Properties**
- **Appearance at 25°C**: Clear liquid
- **pH, as is**: 6.5-7.5
- **Viscosity at 25°C, cps**: Water thin
- **VOC (calculated), %**: 0

**Storage/ Stability**
- **Freeze/thaw, 3 cycles**: Pass
- **4 weeks at 50°C**: Pass
- **4 weeks at 4°C**: Pass
- **4 weeks at 25°C**: Pass

**Instructions for Use**
Use as is. Spray onto surface and allow to penetrate 1–3 minutes, depending on soil load. Wipe surface clean with cloth or sponge.

**External Comment**
Marketing Notes: Naturally-derived refers to the formulation being sourced from surfactants that are derived from bio-renewable sources. Biorenewable is defined by Stepan as originating from animal, plant, or marine materials. STEPANOL® WA-EXTRA HP, BIO-SOFT® EC-690, and STEPOSOL® MET-10U have a Biorenewable Carbon Index (BCI) of 100, 46, and 83 respectively. For further information on Stepan’s BCI, visit www.stepan.com. The manufacturer is responsible
for the use of other Naturally-derived ingredients, as defined herein, including but not limited to
Preservative, Fragrance, and Dye. This formulation meets the California Air Resource Board
(CARB) VOC regulation for non-aerosol general purpose cleaners (0.5% VOC limit as of
December 31, 2012). For U.S. formulators, STEPOSOL® MET-10U is a low vapor pressure VOC
(LVP-VOC), therefore its contribution to the VOC calculation is zero. STEPOSOL® MET-10U does
not contribute to the VOC calculation because of its high boiling point and low vapor pressure. If
desired, BIO-SOFT® EC-639 (BCI=42) can be substituted for BIO-SOFT® EC-690 on an equal
actives basis in addition STEPOSOL® M-8-10 (BCI=82) can also be substituted for STEPOSOL®
MET-10U. label and/or trademark usage of the final product is the sole responsibility of the finished
product manufacturer, for which Stepan bears no responsibility.

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Company

BIO-SOFT®
STEPANOL®
STEPOSOL®

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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Stepan

Stepan Company
Northfield, Illinois 60093
Telephone (847) 446-7500

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