**Formulation**

**Name**
HEAVY-DUTY CONCRETE CLEANER

**No.**
1157

**Description**
This water-soluble, heavy-duty cleaner removes motor oil and soil build-up from concrete surfaces, such as garage floors and driveways.

**Formulation**

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMMONYX® LMDO</td>
<td>16.0</td>
<td>Degreaser</td>
</tr>
<tr>
<td>BIO-SOFT® EC-690</td>
<td>17.0</td>
<td>Emulsifier</td>
</tr>
<tr>
<td>BIO-TERGE® PAS-8S</td>
<td>10.0</td>
<td>Hydrotrope</td>
</tr>
<tr>
<td>Deionized Water</td>
<td>20.0</td>
<td>Carrier</td>
</tr>
<tr>
<td>STEPOSOL® M-8-10</td>
<td>37.0</td>
<td>Solvent, Degreaser</td>
</tr>
</tbody>
</table>

Total: 100.0

**Procedure**
1. Charge water in mixing vessel.
2. Slowly mix in BIO-SOFT® EC-690 and AMMONYX® LMDO.
3. Add in STEPOSOL® M-8-10
4. Add in BIO-TERGE® PAS-8S.
5. Mix until homogeneous.

**Physical Properties**
- **Appearance, as is**: Clear liquid
- **pH, as is**: 8.0
- **Viscosity, as is, cps**: Water thin
- **VOC% (calculated)**: 12%

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

**Instructions for Use**
For heavier cleaning, apply "as is" to surface and let stand 3–5 minutes. Rinse with water. For lighter cleaning, mix 4 oz:1 gallon. Let stand for 2–3 minutes. Wipe surface with wet sponge or cloth, then rinse.

**External Comment**
Marketing Notes: BCI = 62. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. For further information on Stepan's BCI, visit www.stepan.com. BIO-SOFT® N91-6 may be used as a substitution for BIO-SOFT® EC-690.

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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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