**WHEEL CLEANER**

**No.**
1197

**Description**
This formulation is designed to remove a variety of soil types from wheel surfaces.

**Formulation INGREDIENTS:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized Water</td>
<td>q.s. to 100</td>
<td>Diluent</td>
</tr>
<tr>
<td>Sodium Citrate</td>
<td>2.5</td>
<td>Builder</td>
</tr>
<tr>
<td>BIO-SOFT® D-40</td>
<td>7.5</td>
<td>Primary Surfactant</td>
</tr>
<tr>
<td>BIO-SOFT® N91-8</td>
<td>1.5</td>
<td>Emulsifier</td>
</tr>
<tr>
<td>BIO-SOFT® N91-2.5</td>
<td>1.5</td>
<td>Emulsifier</td>
</tr>
<tr>
<td>STEPANATE® SXS</td>
<td>6.0</td>
<td>Emulsifier</td>
</tr>
<tr>
<td>Dowanol DPnB (Dow Chemical) Dipropylene Glycol n-Butyl Ether</td>
<td>9.0</td>
<td>Solvent</td>
</tr>
<tr>
<td>Dye</td>
<td>q.s.</td>
<td>Additive</td>
</tr>
<tr>
<td>Fragrance</td>
<td>q.s.</td>
<td>Additive</td>
</tr>
<tr>
<td>Preservative</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total** 100.0

**Procedure**

1. Charge tank with Deionized Water.
2. Add ingredients in order shown above. Mix until homogenous.

**Physical Properties**

- **Appearance at 25°C**
  Clear liquid
- **pH, as is**
  9.8
- **Viscosity at 25°C, cps**
  Water thin
- **Solids, %**
  11
- **VOC (calculated), %**
  0

**Storage/Stability**

- 4 weeks at 50°C
  Stable
- 4 weeks at 25°C
  Stable
- 4 weeks at 4°C
  Stable
- Freeze/thaw, 3 Cycles
  Stable

**Instructions for Use**

Apply to wheel surface. If necessary, scrub to remove dirt. Rinse.

**Marketing Notes:** When used as per Stepan's recommendations, this formulation is VOC-compliant with U.S. Federal and California Air Resource Board (CARB) Consumer Products regulation for non-aerosol, motor vehicle wash (0.2% VOC limit as of December 31, 2012). Dowanol DPnB is a low-vapor pressure VOC (LVP-VOC) and is exempt from the VOC calculation. BIO-SOFT® D-40, BIO-SOFT® N91-8 and STEPANATE® SXS are approved ingredients on www.cleangredients.org. For further information, visit our website or www.cleangredients.org. Label and/or trademark usage of the final product is the sole responsibility of the finished product manufacturer. This product does not contain Nonylphenol Ethoxylates (NPEs).

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- BIO-SOFT®
- STEPANATE®

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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