INDUSTRIAL READY-TO-USE PRINTING PRESS INK CLEANER

No. 1159

Description This water-soluble formulation cleans residual ink from the metal components of machine print presses.

Formulation INGREDIENTS: % by Weight Functionality

<table>
<thead>
<tr>
<th>Ingredient</th>
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</thead>
<tbody>
<tr>
<td>Deionized Water</td>
<td>42.0</td>
<td>Carrier</td>
</tr>
<tr>
<td>BIO-TERGE® PAS-8S</td>
<td>18.0</td>
<td>Hydrotrope</td>
</tr>
<tr>
<td>STEPOSOL® M-8-10</td>
<td>15.0</td>
<td>Solvent</td>
</tr>
<tr>
<td>STEPOSOL® SC</td>
<td>15.0</td>
<td>Solvent</td>
</tr>
<tr>
<td>BIO-SOFT® EC-690</td>
<td>10.0</td>
<td>Emulsifier</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100.0</strong></td>
<td></td>
</tr>
</tbody>
</table>

Procedure
1. Charge Water in mixing vessel.
2. Slowly in BIO-TERGE® PAS-8S.
3. Add STEPOSOL® M-8-10 and mix thoroughly.
4. Add STEPOSOL® SC.
5. Slowly mix in BIO-SOFT® EC-690.
6. Mix for about 20 minutes or until homogeneous.

Physical Properties
- Appearance, as is: Clear liquid
- pH, as is: 7.5
- Viscosity, as is: Water thin
- VOC% (calculated): 13%

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
Using clean sponge, apply "as is" to metal surface. Rinse with a clean wet sponge or cloth. Wipe dry.

External Comment
Marketing Notes: BCI = 70. 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. As of January 2011, this formulation meets current and proposed California Air Resources Board (CARB) VOC regulations. BIO-SOFT® N91-6 may be used as a substitution for BIO-SOFT® EC-690.

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- BIO-TERGE®
- STEPOSOL®
- 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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