GRAFFITI REMOVER CONCENTRATE

Name: GRAFFITI REMOVER CONCENTRATE  
No: 1219  
Description: As is, this concentrate removes graffiti. When diluted with water, it can remove spray and latex paints.

Formulation:

**INGREDIENTS:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-SOFT® N91-6</td>
<td>50.0</td>
<td>Emulsifier</td>
</tr>
<tr>
<td>STEPOSOL® MET-10U</td>
<td>25.0</td>
<td>Surfactant/Solvent</td>
</tr>
<tr>
<td>Monoethanolamine (Dow)</td>
<td>25.0</td>
<td>Buffer</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100.0</td>
<td></td>
</tr>
</tbody>
</table>

Procedure:

1. Charge BIO-SOFT® N91-6 in mixing vessel.  
2. Blend in STEPOSOL® MET-10U.  
3. Add Monoethanolamine.  
4. Mix until homogenous.

Physical Properties:

- **Appearance at 25°C**: Clear liquid  
- **pH, diluted 1:4**: 11.5 – 11.8  
- **Viscosity (as is) at 25°C, cps**: <100  
- **VOC, concentrate (calculated), %**: 25.0  
- **VOC, diluted 1:4 (calculated), %**: 5.0

Storage/Stability:

- Freeze/thaw, 3 cycles: Pass  
- 1 month at 50°C: Pass  
- 1 month at 25°C: Pass  
- 1 month at 4°C: Pass

Instructions for Use:

For tough graffiti-removal tasks, apply as is to surface. Allow to penetrate 15 minutes. Wipe, scrape or brush off. Rinse if desired. For removal of spray and latex paints, dilute 1:2 – 1:4. Apply to surface. Allow to penetrate 15 minutes. Wipe, scrape or brush off. Rinse. Diluted formulations will have cloud points <50°C, which can be raised with a standard hydrotrope such as STEPANATE® SXS, if desired.

External Comment:

Marketing Notes: Please refer to the Safety Data Sheet for global regulatory information. It is the responsibility of the end user to review the chemical control regulations for each country.

BIO-SOFT® N91-6 is an approved ingredient on www.cleangredients.org. For further information, visit www.cleangredients.org. When used as a graffiti remover, this formulation is VOC-compliant with California Air Resource Board (CARB) Consumer Products regulation for graffiti removers (30% VOC limit as of December 31, 2006). 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. STEPOSOL® MET-10U and its formulations remove graffiti by a different mechanism than traditional solvents. Rather than dissolving these soils into a smeary gel that has to be removed by a second step with soap and water, Stepan’s formulation breaks down these soils for easy removal in one step. Also, unlike traditional solvents that quickly evaporate,
Stepan's formulation remains on the surface and continues to work. Used this way, Stepan's formulation equals or exceeds the removal performance of the leading solvent-based removers on graffiti and does it in one easy step that requires less work. Before using on plastic, hard or painted surfaces, spot test on an inconspicuous area first.

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BIO-SOFT®
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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