**Name**  
NON-PHOSPATE, ALKALINE PRESOAK  
**No.**  
922  
**Description**  
This formulation is used to loosen dirt, grease, and road film from the surface of cars and does not contain phosphates. This formulation prepares the surface of the car for washing with soap.  
**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 100.0</td>
<td>Diluent</td>
</tr>
<tr>
<td>AMMONYX® LO</td>
<td>3.0</td>
<td>Primary Surfactant</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>2.0</td>
<td>Builder</td>
</tr>
<tr>
<td>Sodium Metasilicate Pentahydrate</td>
<td>2.0</td>
<td>Builder</td>
</tr>
<tr>
<td>Versene 100 (Tetrasodium EDTA) Dow Chemical</td>
<td>3.0</td>
<td>Chelating Agent</td>
</tr>
<tr>
<td>Preservative</td>
<td>q.s.</td>
<td>Additive</td>
</tr>
<tr>
<td>Dye</td>
<td>q.s.</td>
<td>Additive</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100.0</td>
<td></td>
</tr>
</tbody>
</table>

**Procedure**  
1. Mix Deionized Water and Versene 100 until clear.  
2. Add Sodium Carbonate and mix until dissolved.  
3. Add Sodium Metasilicate Pentahydrate and mix until dissolved.  
4. Add AMMONYX® LO and mix until homogeneous.  
5. Add Dye and Preservative. Mix until homogeneous.  

**Physical Properties**  
- Appearance at 25ºC: Clear liquid  
- pH, as is: 12.0–13.0  
- Viscosity at 25ºC, cps: Water thin  
- Density, lbs./gal.: 8.67  
- Solids, %: 4–7  
- Flash Point (PMCC), °F: 201  
- VOC (calculated), %: 0  

**Storage/ Stability**  
- 1 Month at 4ºC: Stable  
- 1 Month at 25ºC: Stable  
- 1 Month at 50ºC: Stable  
- Freeze/Thaw, 10 Cycles: Pass  

**Instructions for Use**  
Apply using the proper equipment. Let stand for 10–30 minutes. This formulation may or may not be rinsed with water before applying car wash soap.  

**External Comment**  
Marketing Notes: When used as per Stepan's recommendation, 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). AMMONYX® LO is an approved ingredient on www.cleangredients.org. This formulation does not contain Nonylphenol Ethoxylates (NPEs).  

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AMMONYX®
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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