



# Formulation

Name	<b>NON-PHOSPATE, ALKALINE PRESOAK</b>	
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	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>    <u>Functionality</u></b>
	Deionized Water	q.s. to 100.0 Diluent
	AMMONYX® LO	3.0 Primary Surfactant
	Sodium Carbonate	2.0 Builder
	Sodium Metasilicate Pentahydrate	2.0 Builder
	Versene 100 (Tetrasodium EDTA) Dow Chemical	3.0 Chelating Agent
	Preservative	q.s. Additive
	Dye	q.s. Additive
	<b>Total</b>	<b>100.0</b>
Procedure	<ol style="list-style-type: none"> <li>1. Mix Deionized Water and Versene 100 until clear.</li> <li>2. Add Sodium Carbonate and mix until dissolved.</li> <li>3. Add Sodium Metasilicate Pentahydrate and mix until dissolved.</li> <li>4. Add AMMONYX® LO and mix until homogeneous.</li> <li>5. Add Dye and Preservative. Mix until homogeneous.</li> </ol>	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, as is	12.0–13.0
	Viscosity at 25°C, cps	Water thin
	Density, lbs./gal.	8.67
	Solids, %	4–7
	Flash Point (PMCC), °F	201
	VOC (calculated), %	0
Storage/Stability	1 Month at 4°C	Stable
	1 Month at 25°C	Stable
	1 Month at 50°C	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 <a href="http://www.cleangredients.org">www.cleangredients.org</a> . This formulation does not contain Nonylphenol Ethoxylates (NPEs).	
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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).  
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Stepan Company  
Northfield, Illinois 60093  
Telephone (847) 446-7500

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