



# Formulation

Name	<b>CONSUMER CAR WASH WITH A COCAMIDE DEA ALTERNATIVE</b>	
No.	1107	
Description	This economy, consumer-type formulation contains Amine Oxide chemistry. It is designed for easy dilution and produces large amounts of foam.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	Deionized Water	q.s. to 100.0 Carrier
	Sodium Hydroxide, 50% solution	2.7 Neutralizer
	BIO-SOFT® S-101	10.3 Primary Surfactant
	AMMONYX® CDO SPECIAL	5.0 Secondary Surfactant
	Sodium Chloride	0.5 Thickener
	Dye	q.s. Additive
	Fragrance	q.s. Additive
	Preservative	q.s. Additive
	<b>Total</b>	<b>100.0</b>
Procedure	<ol style="list-style-type: none"> <li>1. Add Deionized Water, Sodium Hydroxide, and BIO-SOFT® S-101 with mixing.</li> <li>2. Adjust pH to 7.0–7.5 with additional BIO-SOFT® S-101 or Sodium Hydroxide. Allow solution to mix and the pH to stabilize.</li> <li>3. Add AMMONYX® CDO SPECIAL, followed by Sodium Chloride, and mix until clear.</li> <li>4. Add Preservative, Dye, and Fragrance. Mix until homogeneous.</li> </ol>	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, as is concentrate	8.0
	Viscosity at 25°C, cps	1,000
	Solids, %	13.8
	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, 3 Cycles	Stable
Instructions for Use	Dilute 1 ounce to 1 gallon of water (1:128). Mix and apply using a sponge. Rinse and dry the car surface.	
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). BIO-SOFT® S-101 is an approved ingredient on <a href="http://www.cleangredients.org">www.cleangredients.org</a> . This formulations does not contain Nonylphenol Ethoxylates (NPEs) and utilizes AMMONYX® CDO SPECIAL as an alternate to Cocamide DEA.	
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Company

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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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