

Formulation

Name	CONSUMER CAR WASH CONCENTRATE WITH COCAMIDE DEA ALTERNATIVE	
No.	1194	
Description	This consumer-type formula is designed for easy dilution while generating a large amount of stable foam.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100.00 Diluent
	Sodium Hydroxide (50% Solution)	1.95 Neutralizer
	BIO-SOFT® S-101	7.38 Primary Surfactant
	=== Phase 2 ===	
	AMMONYX® LMDO	10.00 Secondary Surfactant
	Sodium Chloride	0.25 Thickener
	Dye	q.s. Additive
	Fragrance	q.s. Additive
	Preservative	q.s. Additive
	Total	100.00
Procedure	Phase 1: 1. Charge tank with water. 2. Add Sodium Hydroxide (50% Solution) and BIO-SOFT® S-101. Mix until neutralization is complete. Make certain the temperature of this Phase 1 does not exceed 50°C (122°F). Phase 2: 1. Add ingredients to Phase 1 in order shown above. Mix until homogenous.	
Physical Properties	Appearance at 25°C	Clear liquid
	Viscosity at 25°C, cps	255
	pH, as is	9.56
	Solids, %	11.60
	VOC (calculated) 1:128 Dilution Level, %	0
Storage/Stability	4 weeks at 50°C	Stable
	4 weeks at 25°C	Stable
	4 weeks at 4°C	Stable
	Freeze/Thaw, 3 cycles	Stable
Instructions for Use	Dilute 1 ounce to 1 gallon of water (1:128). Mix and apply to the car using a sponge. Rinse and then dry the car surface. Foaming performance is unsurpassed to commercially available products in Shake Foam Tests.	
External Comment	Marketing Notes: When used at Stepan's recommended dilution level of 1:128, 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). BCI = 41. Total BCI (Biorenewable Carbon Index) was calculated only for the Stepan surfactants used in this formulation. BIO-SOFT® S-101 and AMMONYX® LMDO are both approved ingredients on www.cleangredients.org . For further information, visit our website or www.cleangredients.org . Label and/or trademark usage of the final product is the sole responsibility of the finished product manufacturer. This product does not contain Nonylphenol Ethoxylates (NPEs). AMMONYX® LMDO is an alternative surfactant to Cocamide DEA.	
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For
Additional
Assistance

011-334-76-505-100 (Europe).

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