



# Formulation

Name	<b>PREMIUM HEAVY-DUTY LIQUID – LAS/ AES/ AE - NO NPE</b>	
No.	907	
Description	Premium heavy duty liquid laundry detergent with LAS/AES and AE	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u></b>
	BIO-SOFT® S-101	6.43
	NaOH, 50% Solution	1.70
	STEOL® CS-330	23.81
	BIO-SOFT® N25-7	6.67
	STEPANATE® SXS	7.50
	Sodium Carbonate	2.00
	Sodium Chloride	0.50
	Water, Fragrance, Dye, and Preservative	q.s. to 100.00
	<b>Total</b>	<b>100.0</b>
Procedure	Mix Water, NaOH, and STEPANATE® SXS. Slowly add BIO-SOFT® S-101. Adjust pH with additional NaOH, if necessary. Continue mixing and add Sodium Carbonate. When Sodium Carbonate is dissolved, add STEOL® CS-330. Add BIO-SOFT® N25-7. Heat gently if necessary to completely solubilize BIO-SOFT® N25-7. Add remaining ingredients. Continue stirring until blend is well mixed.	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, as is	11.5
	Viscosity at 25°C, cps	75-100
	Specific Gravity, g/ml	1.05
Storage/ Stability	Stability at 5°C for 1 Month	Pass
	Stability at 40°C for 1 Month	Pass
	Stability at Room Temperature for 1 Month	Pass
	Freeze/Thaw, 3 Cycles	Pass
Instructions for Use	Use ½ cup per normal-size wash load.	
Registered Trademarks of Stepan Company	BIO-SOFT® STEPANATE® STEOL®	
For Additional Assistance	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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Revision Date: 08/17/2007    Origination Date: © 2007, Stepan Company. All rights reserved.