



Formulation

Name	PREMIUM HEAVY-DUTY LIQUID – LAS/NPE	
No.	903	
Description	Premium heavy-duty liquid laundry detergent with LAS/NPE.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u>
	BIO-SOFT® S-101	9.65
	NaOH, 50% Solution	2.56
	MAKON® 10	10.00
	STEPANATE® SXS	7.50
	Sodium Carbonate	2.00
	Water, Fragrance, Dye, Preservative	Q.S. to 100.00
	Total	100.0
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 MAKON® 10. Add remaining ingredients. Continue stirring until blend is well mixed.	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, as is	12.2
	Viscosity at 25°C, cps	125-175
	Specific Gravity, g/ml	1.04
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 1/2 cup per normal-size wash load.	
Registered Trademarks of Stepan Company	BIO-SOFT® MAKON® STEPANATE®	
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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