



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.	
	Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.	



Stepan Company
Northfield, Illinois 60093
Telephone (847) 446-7500

Revision Date: 08/17/2007 Origination Date: © 2007, Stepan Company. All rights reserved.