



# Formulation

Name	<b>ECONOMY HEAVY-DUTY LIQUID LAUNDRY DETERGENT</b>	
No.	908	
Description	Economy heavy-duty liquid laundry detergent with LAS and NPE	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u>
	BIO-SOFT® S-101	3.63
	Sodium Hydroxide, 50% solution	1.03
	MAKON® 10	3.78
	STEPANATE® SXS	0.79
	Sodium Carbonate	0.60
	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 Sodium Hydroxide, 50% solution, 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	10.5
	Viscosity at 25°C, cps	100-150
	Specific Gravity, g/ml	1.02
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	<p>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.</p> <p>The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents. <b>STEPAN COMPANY MAKES NO PRODUCT WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, EXPRESS OR IMPLIED, AND NO OTHER WARRANTY OR GUARANTY, EXPRESS OR IMPLIED, IS MADE, INCLUDING AS TO INFORMATION REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, OR ADEQUACY.</b> Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or</p>	

any other party for any direct, indirect, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy, furnishing, use, or reliance upon information provided herein. The vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise to the fullest extent possible under the relevant law.



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

Revision Date: 05/04/2020    Publication Date: © 2020, Stepan Company. All rights reserved.