



Formulation

Name	CONCENTRATED LAVENDER LIQUID LAUNDRY DETERGENT	
No.	1568	
Description	Concentrated formulation ideal for washing clothes with high cleaning performance.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	80.90 Carrier
	EDTA	0.10 Chelating Agent
	BIO-SOFT® S-118 90 HV	7.20 Cleansing Agent
	=== Phase 2 ===	
	Sodium Hydroxide (50% Solution)	1.30 Neutralizer
	Triethanolamine	0.15 Neutralizer
	STEOL® 23-2S.70 CP	6.50 Cleansing Agent
	=== Phase 3 ===	
	BIO-SOFT® N91-8	0.80 Cleansing Agent
	Lavender Essential Oil	0.15 Fragrance
	=== Phase 4 ===	
	AMMONYX® LMDO	2.00 Foam and Viscosity Stabilizer
	Sodium Chloride	0.80 Thickener
	=== Phase 5 ===	
	Preservative	0.10 Preservative
	Citric Acid	q.s. pH Adjuster
	Total	100.00
Procedure	<ol style="list-style-type: none"> 1. In a suitable vessel, add Deionized water and start agitation. 2. Add EDTA with mixing. Mix until homogenous. 3. Add BIO-SOFT® S-118 90 HV and mix until the system is homogeneous. 4. Add a small portion of the Sodium hydroxide (50% Solution) with mixing. The remainder should be reserved for later addition. 5. Add Triethanolamine with mixing. 6. Add the remaining amount of Sodium hydroxide (50% Solution) slowly until the solution is neutralized (pH 6.5 - 7.5). Mix until the system is homogeneous. 7. Add STEOL® 23-2S.70 CP and mix until the batch is uniform. 8. Add AMMONYX® LMDO and mix until homogenous. 9. In a separated vessel, add BIO-SOFT® N91-8 and Lavender Essential Oil, and mix. 10. Add the pre-mix to the main vessel and continue mix until the system is homogeneous. 11. Add preservative and mix. 12. Check the pH of the batch and adjust if needed using small quantities of Citric acid. The recommended pH of the batch should be 8.0 - 9.0. 	
Physical Properties	Appearance, as is	Clear viscous Liquid
	pH, as is	8.0 - 9.0

	Viscosity at 25°C (LVT, S63, 60 RPM), cps	500 - 700
Storage/ Stability	12 weeks at 5°C	Stable
	12 weeks at 25°C	Stable
	10 weeks at 45°C	Stable
	Freeze/Thaw, 3 cycles	Pass
Instructions for Use	Use ½ cup per normal-size wash load.	
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For Additional Assistance	For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or +33 476 505 100 (Europe). For ordering assistance, call our Account Service Department at 1-800-457-7673.	

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