



Formulation

Name	POWDER CONCENTRATE GLASS CLEANER	
No.	1451	
Description	This naturally derived powder formulation can be diluted 1:136 with tap water to produce a glass cleaner.	
Formulation	INGREDIENTS:	% by Weight Functionality
	=== Phase 1 ===	
	Maltrin® M700 Maltodextrin (Grain Processing Corp)**	50 Filler
	BIO-SOFT® LFS-07	5 Surfactant
	=== Phase 2 ===	
	AMPHOSOL® LB-DRY	20 Surfactant
	STEPANOL® WA-100 NF/USP	5 Surfactant
	Sodium Gluconate (TCI America)	10 Builder
	Sodium Citrate (Fischer Scientific)	10 Builder
	Total	100
Procedure	1. Charge Maltrin® M700 Maltodextrin into appropriately sized container. 2. While mixing, add BIO-SOFT® LFS-07. 3. While mixing, add remaining materials one at a time. **Note: Maltrin® M700 Maltodextrin supplied by Grain Procoessing Corp is Maltodextrin.	
Physical Properties	Appearance, as is	Powder
	pH (1:136 dilution)	8.0 - 9.0
	Viscosity at 25°C (1:136 dilution), cps	Water thin
Storage/Stability	4 weeks at 60% relative humidity (as is)	Stable
	4 weeks at 5°C (1:136 dilution ratio)	Stable
	4 weeks at 25°C (1:136 dilution ratio)	Stable
	4 weeks at 40°C (1:136 dilution ratio)	Stable
	4 weeks at 50°C (1:136 dilution ratio)	Stable
Instructions for Use	Make a 0.75% by solution with tap water (this is a 1:136 dilution ratio) by taking 0.75% by weight of the powder, and dissolving it in 99.24% by weight of tap water. Mix until incorporated. Apply to surface using a spray bottle and wipe. A 1:136 dilution achieves a film/streak score of 0.4 in when evaluated using Stepan Method SM250-A, this result is comparable to the benchmarks that were evlauated.	
External Comment	Marketing Notes: BCI = 85. Total Biorenewable Carbon Index (BCI) was calculated for the Stepan surfactants and other ingredients used in this formulation. For further information on Stepan's BCI, visit www.stepan.com . As of March 2022, AMPHOSOL LB-DRY is not commercially available yet. Contact your Stepan Representative for more information."	
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Additional
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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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