



## Formulation

Name	<b>POWDER CONCENTRATE KITCHEN CLEANER</b>	
No.	1449	
Description	This naturally derived powder formulation can be diluted 1:91 with tap water and be used as a kitchen cleaner.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	=== Phase 1 ===	
	Maltrin® M700 Maltodextrin (Grain Processing Corp.)**	28 Filler
	BIO-SOFT® EC-639	15 Surfactant
	=== Phase 2 ===	
	AMPHOSOL® LB-DRY	20 Surfactant
	STEPANOL® WA-100 NF/USP	15 Surfactant
	Sodium Gluconate (TCI America)	10 Builder
	Sodium Metasilicate Pentahydrate	7 Builder
	Sodium Citrate	5 Builder
	<b>Total</b>	<b>100</b>
Procedure	1. Charge Maltrin® M700 Maltodextrin into appropriately sized container. 2. While mixing, add BIO-SOFT® EC-639. 3. While mixing, add remaining materials one at a time. **Note: Maltrin® M700 Maltodextrin supplied by Grain Processing Corp. is Maltodextrin.	
Physical Properties	Appearance, as is	Powder
	pH (1:91 dilution ratio)	10.0 - 11.0
	Viscosity at 25°C (1:91 dilution ratio), cps	Water thin
Storage/Stability	4 weeks at 60% relative humidity (as is)	Stable
	4 weeks at 5°C (1:91 dilution ratio)	Stable
	4 weeks at 25°C (1:91 dilution ratio)	Stable
	4 weeks at 40°C (1:91 dilution ratio)	Stable
	4 weeks at 50°C (1:91 dilution ratio)	Stable
Instructions for Use	Make a 1.1% by solution with tap water (this is a 1:91 dilution ratio) by taking 1.1% by weight of the powder and dissolving it in 98.9% by weight of tap water. Mix until incorporated. Apply to surface using a spray bottle and wipe.  1:91 dilution is comparable to benchmarks that when evaluated using Stepan Method SM250-D Kitchen Spray Test.	
External Comment	Marketing Notes: BCI = 79. 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 <a href="http://www.stepan.com">www.stepan.com</a> . As of March 2022, AMPHOSOL LB-DRY is not commercially available yet. Contact your Stepan Representative for more information."	
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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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