



Formulation

Name	POWDER CONCENTRATE BATHROOM CLEANER	
No.	1450	
Description	This naturally derived powder formulation can be diluted 1:91 with tap water and be used as a bathroom cleaner.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Maltrin® M700 Maltodextrin (Grain Processing Corp.)**	50 Filler
	BIO-SOFT® EC-639	5 Surfactant
	=== Phase 2 ===	
	AMPHOSOL® LB-DRY	20 Surfactant
	STEPANOL® WA-100 NF/USP	5 Surfactant
	Citrocoat® N10 (Jungbunzlauer International AG)*	10 Builder
	Succinic Acid (Wego Chemical Group)	10 Builder
	Total	100
Procedure	<p>1. Charge Maltrin® M700 Maltodextrin into appropriately sized container.</p> <p>2. While mixing, add BIO-SOFT® EC-639.</p> <p>3. While mixing, add remaining materials one at a time.</p> <p>**Note: Maltrin® M700 Maltodextrin supplied by Grain Processing Corp. is Maltodextrin.</p> <p>*Note: Citrocoat® N10 supplied by Jungbunzlauer International AG is comprised of citric acid coated with a shell of 10% citrate.</p>	
Physical Properties	Appearance, as is	Powder
	pH (1:91 dilution ratio)	3.0
	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	<p>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.</p> <p>A 1:91 dilution is comparable to benchmarks that when evaluated using Stepan Method SM250-B, Soap Scum Remover Evaluation.</p>	
External Comment	<p>Marketing Notes: BCI = 74. 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."</p>	

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