



# Formulation

Name	<b>POWDER CONCENTRATE ALL-PURPOSE CLEANER</b>	
No.	1448	
Description	This naturally derived formulation can be diluted 1:91 with tap water and be used as an all-purpose cleaner.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u> <u>Functionality</u></b>
	=== Phase 1 ===	
	Maltrin® M700 Maltodextrin (Grain Processing Corp.)**	30 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 Citrate (Fisher Scientific)	10 Builder
	<b>Total</b>	<b>100</b>
Procedure	<ol style="list-style-type: none"> <li>1. Charge Maltrin® M700 Maltodextrin into appropriately sized container.</li> <li>2. While mixing, add BIO-SOFT® EC-639.</li> <li>3. While mixing, add remaining materials one at a time.</li> </ol> <p>**Note: Maltrin® M700 Maltodextrin supplied by Grain Processing Corp. is Maltodextrin.</p>	
Physical Properties	Appearance, as is	Powder
	pH (1:91 dilution ratio)	8.0 - 9.0
	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 achieves 80% cleaning in 5 strokes using ASTM D4488-95 A5 method for oily and particulate soils.</p>	
External Comment	<p>Marketing Notes: BCI = 81. 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.</p>	
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