



Formulation

Name	LAUNDRY PRE-WASH SPOT REMOVER WITH STEPOSOL® CITRI-MET		
No.	1241		
Description	This formulation, made by diluting STEPOSOL® CITRI-MET into a 95%+ water-based cleaner, can used as a pre-wash spot remover. It can remove tar, coffee, wine, grass, ink, blood and pet stains, as well as general dirt and soil from textiles.		
Formulation	INGREDIENTS:	% by Weight	Functionality
	Deionized Water or Soft Water	93.33	Diluent
	STEPOSOL® CITRI-MET	6.67	Surfactant/Solvent
	Total	100.00	
Procedure	1. Charge Deionized Water or Soft Water to a mixing vessel. 2. Mix in STEPOSOL® CITRI-MET until homogeneous.		
Physical Properties	Appearance at 25°C	Clear liquid	
	pH, as is	10.5-11.0	
	Viscosity at 25°C, cps	< 50	
	Flash Point (PMCC), °C (°F)	82 (180)	
	RVOC, %	0.5	
Storage/ Stability	Freeze/thaw, 3 cycles	Pass	
	4 weeks at 25°C	Stable	
	4 weeks at 4°C	Stable	
	4 weeks at 40°C	Stable	
	4 weeks at 50°C	Stable*	
Instructions for Use	Test on a small inconspicuous area before use. Apply to stain and allow for 5 minutes contact time. Wash as usual.		
	Performance is comparable to specialty laundry pre-wash spot removers.		
External Comment	STEPOSOL® CITRI-MET is a concentrated blend designed to be diluted. For consumer retail products, the manufacturer should dilute STEPOSOL® CITRI-MET using Deionized water or Soft water to ensure the best clarity. For industrial use, on-site water can be used. Hard water may produce haze, but will not affect cleaning performance. When this formulation is used "as is" as a spot remover, this formulation is VOC-compliant with California Air Resource Board (CARB) Consumer Products regulation for nonaerosol spot removers (3% VOC limit as of December 31, 2012). STEPOSOL® CITRI-MET as manufactured and sold by Stepan is self-preserved. Since equipment and water quality used for dilution can potentially introduce additional microbial challenges, it is the responsibility of the customer to confirm adequate antimicrobial preservation for formulations containing STEPOSOL® CITRI-MET. *Note: The cloud point of this formulation is 44°C (111°F), therefore at 50°C, the formulation will become hazy. The formulation will fully recover to clarity when below the cloud point.		
Registered	STEPOSOL®		

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Additional
Assistance

For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe).

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