



# Formulation

Name	<b>MARKER, INK, AND PERMANENT MARKER REMOVER WITH STEPOSOL® CITRI-MET</b>	
No.	1242	
Description	This formulation, made by diluting STEPOSOL® CITRI-MET down to a 95%+ water-based cleaner, removes marker, ink, and permanent marker from hard, non-porous surfaces. It works by a new, patent-pending cleaning mechanism that can provide a “disappearing” ink effect unlike any other cleaning product.	
Formulation	<b>INGREDIENTS:</b>	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water or Soft Water	93.33 Diluent
	STEPOSOL® CITRI-MET	6.67 Solvent
	<b>Total</b>	<b>100.00</b>
Procedure	<ol style="list-style-type: none"> <li>1. Charge Deionized Water or Soft Water in a mixing vessel.</li> <li>2. Mix in STEPOSOL® CITRI-MET until homogeneous.</li> </ol>	
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	<p>Test on a small inconspicuous area before use. Apply to the stain and allow to dwell for 10 to 30 seconds. Wipe dry. If a faint trace of the stain remains, this means the surface has some porosity repeat the application with a longer dwell time so that the remover can penetrate and reach the stain.</p> <p>On hard, non-porous surfaces, permanent marker can be decolorized. Any remaining stain is usually easily wiped away.</p>	
External Comment	<p>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 nonaerosol graffiti remover, this formulation is VOC-compliant with California Air Resource Board (CARB) Consumer Products regulation for nonaerosol graffiti removers (30% VOC limit as of December 31, 2006). 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</p>	

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.

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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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