



Formulation

Name	BUG AND TAR REMOVER WITH STEPOSOL® CITRI-MET	
No.	1237	
Description	This formulation is a dilution of STEPOSOL® CITRI-MET concentrate to a 95%+ water-based cleaner that removes tar, road residue, and dried bugs from hard surfaces.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water or Soft Water	93.33 Diluent
	STEPOSOL® CITRI-MET	6.67 Solvent, Degreaser
	Total	100.00
Procedure	<ol style="list-style-type: none"> 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	<p>Test on a small inconspicuous area before use. Apply to surface, wipe or rinse off after 10 seconds. Repeat if needed.</p> <p>Removes 90+% of tar and bugs when used as directed. Containing more than 95% water, this formulation removes more tar than removers that are based on 40% petroleum distillates, and leaves the surface clean and smear-free.</p>	
External Comment	<p>Marketing Notes: 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 bug and tar remover, this formulation is VOC-compliant with California Air Resource Board (CARB) Consumer Products regulation for bug and tar removers (40% VOC limit as of January 1, 2002). 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.</p>	

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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 011-334-76-505-100 (Europe).

For ordering assistance, call our Account Service Department at 1-800-457-7673.

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