



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	INGREDIENTS:	% by Weight	Functionality
	Deionized Water or Soft Water	93.33	Diluent
	STEPOSOL® CITRI-MET	6.67	Solvent, Degreaser
	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 surface, wipe or rinse off after 10 seconds. Repeat if needed.		
	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.		
External Comment	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.		

Registered
Trademarks
of Stepan
Company

STEPOSOL®

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.

The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents or to violate any applicable laws. **STEPAN COMPANY MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, AND NO WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE, INCLUDING REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, ADEQUACY OR OTHERWISE.** Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party in respect of this information, including in respect of its accuracy, completeness, adequacy, furnishing, use, or reliance upon, and the vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise.



Stepan Company
Northfield, Illinois 60093
Telephone (847) 446-7500

Revision Date: Publication Date: 08/10/2015 © 2015, Stepan Company. All rights reserved.