



# Formulation

Name	<b>WHEEL CLEANER USING STEPOSOL® CITRI-MET</b>	
No.	1265	
Description	This formulation, made by diluting STEPOSOL® CITRI-MET with a solution of Monoethanolamine (MEA)-neutralized Thioglycolic Acid, removes brake dust and road residue from vehicle wheels.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	STEPOSOL® CITRI-MET	50.0 Degreaser
	Soft Water or Deionized Water	35.5 Diluent
	Monoethanolamine (MEA)	5.5 Buffer
	Thioglycolic Acid	9.0 Cleansing Agent
	<b>Total</b>	<b>100.0</b>
Procedure	<ol style="list-style-type: none"> <li>1. Charge Soft Water or Deionized Water in mixing vessel.</li> <li>2. Mix in STEPOSOL® CITRI-MET until homogeneous.</li> <li>3. Mix in MEA until homogeneous.</li> <li>4. Mix in Thioglycolic Acid until homogeneous.</li> <li>5. Adjust pH with MEA or Thioglycolic Acid if needed.</li> </ol>	
Physical Properties	Appearance	Straw Colored to yellow liquid
	pH, as is	6 - 8
	Viscosity at 25 °C, cps	< 50
Storage/Stability	4 Weeks at 4 °C	Stable
	4 Weeks at 25 °C	Stable
	4 Weeks at 50 °C	Stable
	3 Freeze/Thaw cycles	Pass
Instructions for Use	<p>Spray on surface of the wheel with a spray bottle or from aerosol can. Rinse off after 30 to 60 seconds with a stream of water or a power washer. Repeat if needed.</p> <p>Removes brake dust and road residue when used as directed. For this application, several minutes is a typical wait time for the cleaner to work, therefore anything under 1 minute is considered "rapid." All spots tested on wheel covers were evenly covered with this brake dust/road residue prior to testing.</p>	
External Comment	<p>Marketing Notes: STEPOSOL® CITRI-MET is a concentrated blend designed to be diluted. Dilution with an alkaline buffer (such as MEA) and adjustment to a near neutral pH with Thioglycolic Acid creates a rapidly acting wheel cleaner that works in one minute or less. Odor from the Thioglycolic Acid-MEA salt is minimized with use of STEPOSOL® CITRI-MET. STEPOSOL® CITRI-MET as manufactured and sold by Stepan is self-preserved. Because 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.</p>	
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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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