Name: WHEEL CLEANER USING STEPOSOL® CITRI-MET
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:

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEPOSOL® CITRI-MET</td>
<td>50.0</td>
<td>Degreaser</td>
</tr>
<tr>
<td>Soft Water or Deionized Water</td>
<td>35.5</td>
<td>Diluent</td>
</tr>
<tr>
<td>Monoethanolamine (MEA)</td>
<td>5.5</td>
<td>Buffer</td>
</tr>
<tr>
<td>Thioglycolic Acid</td>
<td>9.0</td>
<td>Cleansing Agent</td>
</tr>
<tr>
<td>Total</td>
<td>100.0</td>
<td></td>
</tr>
</tbody>
</table>

Procedure:
1. Charge Soft Water or Deionized Water in mixing vessel.
2. Mix in STEPOSOL® CITRI-MET until homogeneous.
3. Mix in MEA until homogeneous.
4. Mix in Thioglycolic Acid until homogeneous.
5. Adjust pH with MEA or Thioglycolic Acid if needed.

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:
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.

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.

External Comment:
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.

Registered: STEPOSOL®
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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