Name: ACID-BASED CAR WASH PRESOAK
No.: 899
Description: This is a concentrated pre-soak formula for car washing. This one-step presoak is used to
loosen dirt, grease and road film from car surfaces to prepare the surface for washing.
Formulation:

INGREDIENTS: % by Weight Functionality

=== Phase 1 ===
Deionized Water 41.0 Diluent
Citric Acid 4.0 pH Adjuster

=== Phase 2 ===
Deionized Water 10.0 Diluent
AMMONYX® LO 10.0 Secondary Surfactant
AMPHOSOL® HCG 30.0 Primary Surfactant
Dowanol EB (Glycol Ether EB) Dow 5.0 Solvent

Total 100.0

Procedure:
1. Phase 1 - Mix Citric Acid and Deionized Water until thoroughly dissolved.
2. Phase 2 - Add ingredients to Phase 1 and mix until homogeneous.

Physical Properties:
Appearance at 25ºC: Clear liquid
pH, as is: 3.8
Viscosity at 25ºC, cps: <20
Density, lbs/gal: 8.50
Solids, %: 16.0-19.0
VOC (calculated) at 1:100 dilution level, %: 0.05

Storage/ Stability:
1 Month at 25ºC: Stable
1 Month at 4ºC: Stable
1 Month at 50ºC: Stable
Freeze/ Thaw, 10 Cycles: Pass

Instructions for Use:
This formulation can be diluted at 1:100 and applied with the proper car wash equipment. This
formulation must be rinsed off the car surface before drying.

External Comment:
Marketing Notes: When used at Stepan's recommended dilution level of 1:100, this formulation is
VOC-compliant with U.S. Federal and California Air Resource Board (CARB) Consumer Products
regulation for non-aerosol, motor vehicle wash (0.2% VOC limit as of December 31, 2012).
AMMONYX® LO is an approved ingredient on www.cleangredients.org. This formulation does not
contain Nonylphenol Ethoxylates (NPEs).

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AMMONYX®
AMPHOSOL®
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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