**Name**
FRICTIONLESS (TOUCHLESS) CAR WASH

**No.**
868

**Description**
This formulation removes typical dirt build-up on a car without the need for brushes, bristles, or any mechanical action used for touchless wash systems.

**Formulation**

<table>
<thead>
<tr>
<th>INGREDIENTS:</th>
<th>% by Weight</th>
<th>Functionality</th>
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--- **Phase 1** ---
- Deionized Water  q.s. to 100.0  Diluent
- Metso 20 (PQ) Sodium Metasilicate Pentahydrate  3.0  Builder

--- **Phase 2** ---
- Versene 100 (Dow Chemical) Tetrasodium EDTA  35.0  Chelating Agent
- STEPANEATE® SXS  10.0  Hydrotrope
- BIO-TERGE® PAS-8S  5.0  Primary Surfactant
- MAKON® 10  5.0  Emulsifier

**Total**  100.0

**Procedure**

**Phase 1**
1. Charge tank with Deionized Water.
2. Add the Metso 20 and thoroughly mix until dissolved.

**Phase 2**
1. Add ingredients in order shown to Phase I and mix thoroughly until homogeneous.

**Physical Properties**
- Appearance at 25°C: Clear liquid
- pH, as is: 13.4
- Viscosity at 25°C, cps: Water thin
- Density, lbs/gal: 9.0
- Solids, %: 26.5–29.5
- VOC (calculated) at 1:100 dilution level, %: 0

**Storage/ Stability**
- 1 Month at 25°C: Stable
- 1 Month at 4°C: Stable
- 1 Month at 50°C: Stable
- Freeze/Thaw, 10 Cycles: Pass

**Instructions for Use**
This formulation can be diluted to 1:100 and applied with the proper car wash equipment.

**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). BIO-TERGE® PAS-8S and STEPANEATE® SXS are approved ingredients on www.cleangredients.org.

**Registered**
STEPANEATE®
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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