

Name

## **ECONOMY LIQUID DISH DETERGENT WITH SLS/SLES-3/LAURAMINE** OXIDE

No.

1188

Description

This economy liquid dish detergent (LDL) contains no Cocamide DEA surfactants. It is composed of two primary surfactants, STEPANOL® WA-EXTRA (Sodium Lauryl Sulfate or SLS) and STEOL® CS-460 (Sodium Laureth Sulfate with 3 moles Ethylene Oxide or SLES-3), and one secondary surfactant, AMMONYX® LO (Lauramine Oxide).

## Formulation INGREDIENTS: % by Weight Functionality

**Deionized Water** 69.01% Diluent 17.24% Primary Surfactant STEPANOL® WA-EXTRA 8.33% Primary Surfactant STEOL® CS-460 AMMONYX® LO 3.67% Secondary Surfactant Sodium Chloride 1.75% Viscosity Builder Citric Acid or Sodium Hydroxide q.s. pH Adjuster Preservative q.s. Preservative

Total 100.00%

Procedure

- 1. Charge Deionized Water.
- 2. Add STEPANOL® WA-EXTRA and STEOL® CS-460. Mix until homogenous.
- 3. Add AMMONYX® LO, mixing until homogenous.
- 4. Slowly add Sodium Chloride to thicken. Amount of Sodium Chloride will vary depending upon the target viscosity. Mix until clear.
- 5. Adjust pH with Citric Acid or Sodium Hydroxide as necessary.
- 8. Add Preservative and mix until homogenous.

Physical
<b>Properties</b>

Appearance at 25 °C Clear liquid 400-650 Viscosity at 25 °C, cps Actives, % 11.1 Solids, % 12.9 pH, as is 7.5 - 8.5Density, lbs/gal 8.5 Flash Point, °F (PMCC) >200 Freeze/Thaw (3 cycles) **Pass** 4 weeks at 4 ℃ Stable

Storage/ Stability

4 weeks at 25 °C Stable 4 weeks at 50 °C Stable

Instructions for Use

Squirt a small amount of detergent into sink. Fill sink with warm/hot water.

External Comment

Marketing Notes: AMMONYX® LO is an approved ingredient on www.cleangredients.org. This formulation does not contain Nonylphenol Ethoxylates (NPEs) or Cocamide DEA.

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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.

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