

BURCO® ECO-8170

Nonionic Alkyl Polyglycoside Surfactant

BENEFITS AND FEATURES

- Functions as a coupling agent in high electrolyte solutions; can couple nonionic surfactants into 40-50% active sodium hydroxide
- Excellent hydrotrope for nonionic surfactants in alkaline formulations
- Compatible with acids, alkali and other builders
- Adds foaming, wetting and dispersant properties
- No cloud point
- Exhibits excellent surface tension reduction
- More soluble and stable than traditional nonionics under a wide range of conditions
- Unlike alcohol ethoxylates, readily dissolves in caustic solutions; stable in solutions containing up to 50% caustic soda or potash
- Reduces need for hydrotropes and foam builders
- Alkyl phenol ethoxylate (APE) free
- Readily biodegradable
- Can be used in the formulation of “green” products compliant with Green Seal and EPA Design for the Environment (DfE) standards and similar “green” standards

TYPICAL APPLICATIONS

- Hard surface cleaners
- Food and beverage cleaners – bottle washing, brewery cleaning, juice pulp removal
- Laundry and dishwashing detergents
- Circuit board and associated electronics cleaners

TYPICAL PROPERTIES

Appearance at 25°C	Viscous yellow liquid
pH	11
Activity, %	70
Viscosity, cP at 25°C	3500
Density, lbs/gal	9.84
Flash Point, °F (CC)	>200
Pour Point, °F	20

FORMULATION GUIDELINES

- Burco ECO-8170 is compatible with cationic, anionic, and nonionic surfactants.
- Burco ECO-8170 can be used in both acidic and basic environments. The product is stable in solutions containing up to 50% caustic soda or potash. To avoid gel formation with caustic, premix ECO-8170 with water and other components before adding caustic.
- To couple a nonionic surfactant into caustic, use 5 - 6 parts of Burco ECO-8170 for one part of nonionic surfactant. The exact amount required will vary with the builder system and the nonionic surfactant being coupled.
- Use of solvents such as glycols, glycol ethers, and d-limonene in the formulation is possible.
- To increase the amount of foam generated, surfactants such as Burcoterge C2P-39 (amphoteric) or Burco COPB-35 (betaine) can be added to the formulation provided that they are soluble in the builder system being used.
- Formulation of DfE and Green Seal acceptable products should follow the guidelines published by the certifying bodies to ensure all standards are met for all materials in a given formulation.

AVAILABILITY

Burco ECO-8170 is available in 441 lb. drums (net).

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