



Cola®Det DEF-61

Betaine-Free Surfactant Blend

CHEMICAL NAME Sodium C₁₄₋₁₆ Olefin Sulfonate, Cocamidopropyl Hydroxysultaine, Cocamide MIPA

CAS NUMBER 68439-57-6, 68139-30-0, 68333-82-4

LISTINGS TSCA (US); DSL (Canada); REACH Pre-Registered (EU); AICS (Australia); IECSC (China); NZIoC (New Zealand)

Cola®Det DEF-61 is a betaine-free surfactant blend with 40% solids designed for liquid mild cleansing formulations such as shampoos, liquid hand soaps, facial and body washes, and feminine products. Cola®Det DEF-61 contains no betaines, sulfates, Diethanolamine (DEA), Ethylene Oxide (EO)/1,4-Dioxane and is shipped preservative-free. Cola®Det DEF-61 builds thick, creamy foam volume with effective viscosity response to salt. The concentrate is cold mixable and offers ease of handling for transport, storage and mixing considerations.

BENEFITS

- Economical liquid surfactant blend for betaine-free, sulfate-free, DEA-free, EO-free formulations
- High-performing, 40% solid surfactant
- DEA, EO-1,4-Dioxane Free
- Shipped preservative-free
- Cold mixable
- Easy to handle
- Meets consumers' desire for mildness, milder than many competing surfactant blends used in similar applications
- Meets broad regulatory requirements

Based on the biodegradation profile of the individual components, Cola®Det DEF-61 is expected to be readily biodegradable.

APPLICATIONS

- Body washes
- Liquid hand soaps
- Shampoos
- AHA/BHA cleansers
- Feminine products
- Foaming bath products
- Inexpensive consumer products with betaine-free, sulfate-free, DEA-free claims

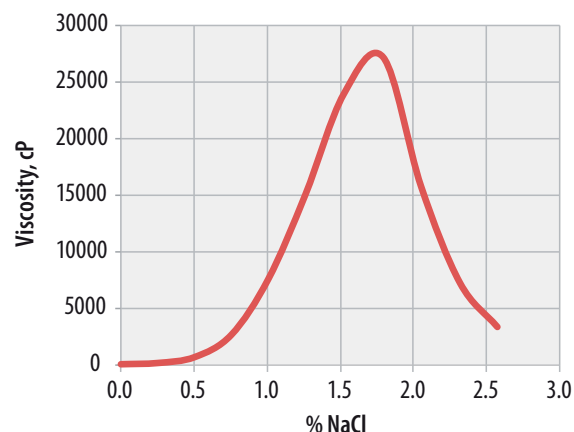


TYPICAL PROPERTIES

Appearance, 25°C	Clear to Hazy Liquid
pH, 10% aqueous	11.0
Solids, %	41.0
Viscosity, cP	3000
<i>Ross-Miles Foam Height (1% active), mm</i>	
Immediate	200
1 minute	185
5 minutes	175

VISCOSITY DEVELOPMENT

High viscosity is effectively generated with salt (shown 25% dilution, pH 6).



FORMULATION

Economy Body Wash (Sulfate, Betaine-Free) #2042

INGREDIENT	%
1 Water	qs to 100.00
2 Merquat™ 550 (Polyquaternium-7)	1.00
2 Cola®Det DEF-61	15.00
3 Calming Fragrance - (Fragrance - Orchidia)	0.20
4 MicroCare® SB (Sodium Benzoate and Potassium Sorbate)	1.00
6 Citric Acid	qs to pH 6.0
7 Sodium Chloride	1.85

Mixing directions: Add Merquat™ 550 to vortex of well agitated water. Mix until completely incorporated. Add ingredients 3-5 in order with adequate mixing between additions. Adjust to pH 5.5 – 6.0 with Citric Acid. Adjust to desired viscosity with Sodium Chloride.

Typical Properties: Appearance: Clear Liquid
pH: 5.0 – 5.5
Viscosity: 4,000 – 6,000 cP



STORAGE AND HANDLING

Cola®Det DEF-61 should be stored in closed containers. Shelf life is 12 months from date of manufacture. Cola®Det DEF-61 is shipped in poly 55-gal drums, net weight 450 lbs (204.1 kg) and bulk. Safety Data Sheet may be downloaded at www.colonialchem.com.



Colonial Chemical

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Innovative Specialty Surfactants