

# Cola®Det DEF-60

### Highly Effective Sufactant Blend for Economical Sulfate-Free Formulations

INCI NAME Sodium C<sub>14-16</sub> Olefin Sulfonate, Cocamide MIPA, Cocamidopropyl Betaine

CAS NUMBER 68439-57-6, 68333-82-4, 61789-40-0

LISTINGS TSCA (US), DSL (Canada), REACH Pre-Registered (EU), AICS (Australia),

IECSC (China), New Zealand (NZIoC)

**Cola®Det DEF-60** is a 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-60 contains no sulfates, Diethanolamine (DEA), Ethylene Oxide (EO)/1,4-Dioxane and is shipped preservative-free. Cola®Det DEF-60 builds high, creamy foam volume with effective viscosity response to salt. The concentrate offers cold mixability and ease of handling for transport, storage and mixing considerations.

#### **BENEFITS**

- Economical liquid surfactant blend for sulfate-free, DEA-free, EO-free formulations
- · High-performing, 40% solid surfactant
- DEA, EO-1,4-Dioxane Free
- Solid amide integration offering efficient formulation
- Cold mixibility
- Shipped preservative free
- Meets consumers' desire for mildness
- Meets broad regulatory requirements

Based on the biodegradation profile of the individual components, Cola®Det DEF-60 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 sulfate-free, DEA-free claims

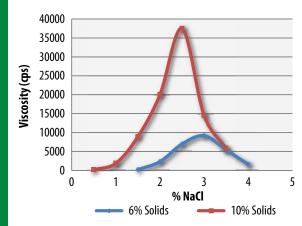


#### **TYPICAL PROPERTIES**

Appearance, 25°C	Clear to Hazy Liquid			
pH, 10% aqueous	11.0			
Solids, %	41.0			
Vicosity	4000 cps			
Ross-Miles Foam Height (1% active), mm				
Immediate	200			
1 minute	185			
5 minutes	175			

#### VISCOSITY DEVELOPMENT

High, creamy foam volume is effectively generated with salt.



#### FOAMING COMPARISON

Cola®Det DEF-60 is capable of developing foam volume similar to sulfate-based systems.

	Α	В	C	
Colonial SLES-2	12.0	12.0	_	
Cola®Teric COAB	COAB 1.0 –		_	
Cola®Teric CBS	-	- 0.73		
Cola®Det DEF-60	_	-	8.9	
Water	87.0	87.27	91.1	

#### Ross-Miles Foam Height (as is), mm

Immediate	195	200	210
1 minute	180	180	190
5 minutes	170	175	180



#### **FORMULATION**

Lux	kury Bubble Bath (Sulfate-Free)	#2013
	INGREDIENT	%
1	Water	qs to 100.00
2	Cola®Det DEF-60	25.00
3	Glucamate™ LT Thickener (PEG-120 Methyl Glucose Trioleate and Propylene Glycol and Water)	1.50
4	MicroCare® SBB (Benzyl alcohol and Benzoic acid and Sorbic acid)	0.75
5	W.S. Luscious Embrace (Fragrance)	0.50
6	Citric Acid	qs to pH 5.5
7	Sodium Chloride	qs

Mixing directions: Combine ingredients 1-5 in order with adequate mixing between additions. Adjust to pH 5.5 with Citric Acid. Adjust to desired viscosity with small amounts of Sodium Chloride.

Typical Properties: Appearance: Clear Liquid;

pH: 5.5; Viscosity: 7,000 cps

#### STORAGE AND HANDLING

Cola®Det DEF-60 should be stored in closed containers. Frozen material may be thawed in a warm room, venting drums while warming. Shelf life is 24 months from date of manufacture. A Safety Data Sheet is available upon request.

#### **PACKAGING**

Cola®Det DEF-60 is shipped in 55 gal. poly drums (net weight 450 lb./204 kg.) or totes.



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Natural Surfactants

