



# Cola®Det DEF-60

Highly Effective Surfactant Blend for Economical Sulfate-Free\* Formulations

**INCI** Sodium C<sub>14-16</sub> Olefin Sulfonate, Cocamidopropyl Betaine, Cocamide MIPA  
**CAS** 68439-57-6, 68333-82-4, 61789-40-0  
**LISTINGS** US (TSCA), Canada (DSL), EU (REACH), Australia (AIC/AICS), China (IECSC/IECIC), Philippines (PICCS), New Zealand (NZIoC), Taiwan (TCSI)

**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), or ethoxylated surfactants. 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 formulations
- High-performing, 40% solid surfactant
- Solid amide integration offering efficient formulation
- Cold mixability
- Meets consumers' desire for mildness
- Meets broad regulatory requirements
- No added preservatives

Readily biodegradable (based on component data)

## APPLICATIONS

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

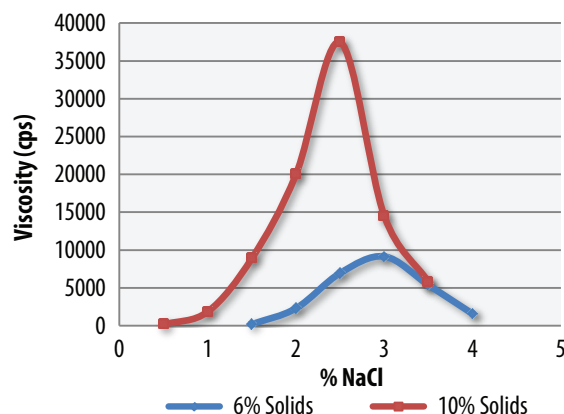


## TYPICAL PROPERTIES

|                                               |                      |
|-----------------------------------------------|----------------------|
| Appearance, 25°C                              | Clear to Hazy Liquid |
| pH, 10% aqueous                               | 11.0                 |
| Solids, %                                     | 41.0                 |
| Viscosity                                     | 4000 cps             |
| <i>Ross-Miles Foam Height (1% active), mm</i> |                      |
| 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.

|                                    | A    | B     | C    |
|------------------------------------|------|-------|------|
| Colonial SLES-2                    | 12.0 | 12.0  | –    |
| Cola®Teric 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

### Luxury Bubble Bath (Sulfate-Free\*)

#2013

| INGREDIENT                                                                                     | %            |
|------------------------------------------------------------------------------------------------|--------------|
| 1 Water                                                                                        | qs to 100.00 |
| 2 Cola®Det DEF-60                                                                              | 25.00        |
| 3 Glucamate™ LT Thickener<br>(PEG-120 Methyl Glucose Trioleate and Propylene Glycol and Water) | 1.50         |
| 4 MicroCare® SBB<br>(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. Cola®Det DEF-60 is shipped in 55 gal. poly drums (net weight 450 lb./204 kg.) or totes. Shelf life is 24 months from date of manufacture. Safety Data Sheet may be downloaded at [www.colonialchem.com](http://www.colonialchem.com).



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*Innovation Specialty Surfactants*

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\* Does not contain alkyl or alkyl ether sulfate surfactants.