Technical Data Sheet
Cola®Liquid DC

CHEMICAL NAME Cocamide DIPA
CAS NUMBER 68855-69-6
LISTINGS EU (REACH); Canada (DSL); US (TSCA); Korea (KECI); China (IECSC)

DESCRIPTION

Cola®Liquid DC is a DEA-free liquid non-ionic surfactant derived from triglyceride oil. Cola®Liquid DC provides excellent foam boosting, viscosity building and foam stabilizing properties. It will readily solubilize most fragrances and essential oils into anionic systems. The product is liquid and very mild to eyes and skin. Cola®Liquid DC can be used in any application where traditional alkanolamide surfactants have been used. Cola®Liquid DC will also boost and maintain foam levels over non-amide systems and other personal care formulations.

Cola®Liquid DC combines the best properties of the coco MEA amide and coco DEA amide into one product. The use level for Cola®Liquid DC is going to be typical of those for similar alcohol amide surfactants, generally in the range of 1% to 5% in personal care products.

APPLICATIONS

Cola®Liquid DC is effective in a wide variety of personal care products, including:

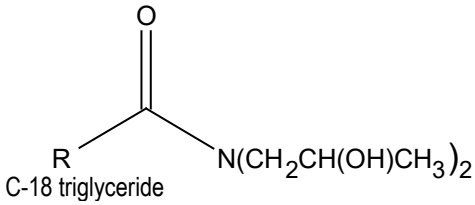
- Body cleansers
- Bubble baths
- Facial cleansers
- Hair colorants
- Shower gels
- Shampoos

BENEFITS

- Foam boosting
- Foam stabilization
- Viscosity control
- Skin emolliency
- Wetting
- Detergency
- Emulsification
- Solubilization of solid actives

TYPICAL PROPERTIES / STRUCTURE

Density	8.1 - 8.3 lbs./Gallon
Color, Gardner	3 Max.
pH of 10% Solution	10.0 – 11.5
Flash Point (open cup)	>200°F
Form at 25°C	Clear, lightly viscous, yellow liquid
Type	Nonionic
% Active	100



BIODEGRADABILITY

Cola®Liquid DC has been tested according to Method OECD 301D and determined to be ultimately biodegradable.

TOXICOLOGICAL PROPERTIES

Cola®Liquid products have been evaluated for eye and skin irritation potential and the product was found to be very mild versus traditional alkanolamides.

- HET-CAM score for Cola®Liquid DC of 2
- Skin irritation testing was performed on 52 test subjects who wore a patch containing 1% Cola®Liquid DC for 48 hours. Visual observation of the skin after that time revealed no changes in skin condition indicating the negative potential for skin irritation by Cola®Liquid DC.

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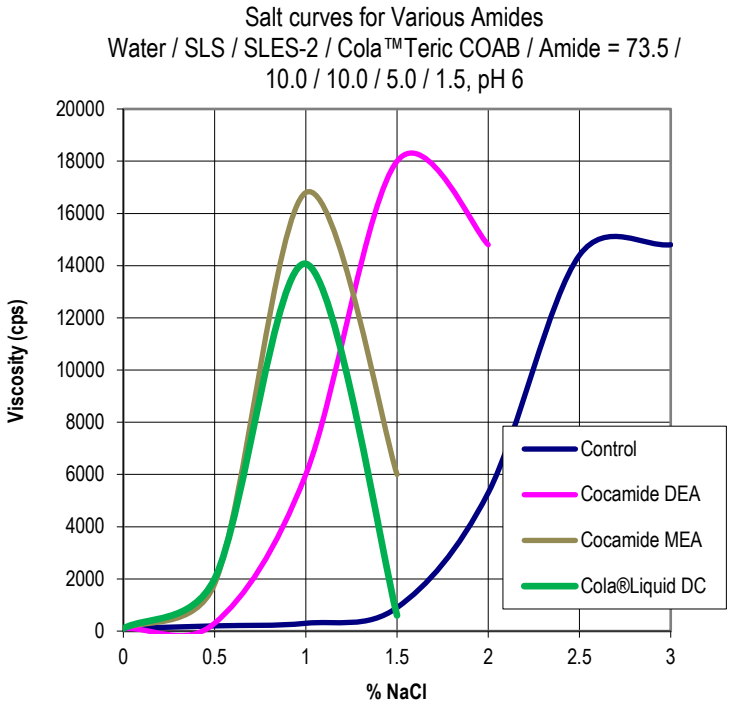
PERFORMANCE

The graph below evaluates the performance of Cola®Liquid DC versus traditional coco MEA and DEA alkanolamides in a typical shampoo type formulation. Cola®Liquid DC provides viscosity enhancement and a reduction in salt levels used to achieve viscosity.

FORMULATION

Shampoos with Cola®Liquid DC

Ingredients	*Version 1*	*Version 2*
Water	50.20	49.20
Colonial ALES-60	20.00	--
Colonial ALS	20.00	--
Suga®Nate 160	--	35.00
Cola®Teric COAB	5.00	5.00
Cola®Liquid DC	3.00	3.00
Cola®Det LPC	--	6.00
Salt	1.00	1.00
Fragrance AN 128870	0.50	0.50
Na2EDTA	0.20	0.20
Kathon CG	0.10	0.10
pH	5.5	5.7
Viscosity # 3 @ 12	3000	2600



STORAGE AND HANDLING

Cola®Liquid DC should be stored in closed containers. Frozen material may be thawed in a warm room, venting drums while warming. Shipped in 55-gallon poly drums (net weight 450 lb/204 kg), totes (net weight 2200 lb/998 kg) and bulk. Typical shelf life is 24 months from date of manufacture. Safety Data Sheets may be found at www.colonialchem.com.

Colonial Chemical, Inc.

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