



# Cola<sup>®</sup>Liquid

Non-DEA Liquid Amides



The **Cola<sup>®</sup>Liquid** Amides are a group of next-generation liquid non-ionic surfactants used to improve foam, viscosity and feel properties of personal care formulations. Formulations that use Cola<sup>®</sup>Liquid amides offer a noticeable improvement in the aesthetics of shampoos and hand soaps over non-amide formulations. Cola<sup>®</sup>Liquid amides include a variety of useful DIPA derivatives and are recommended for "DEA-free" formulations.

## BENEFITS

- DEA, MEA - free
- Develops creamy and stable foam with anionic surfactants
- Liquid, easy to use in cold mix formulations
- Increased foam volume over traditional amides
- Helps solubilize fragrances and active ingredients
- Enhances the viscosity of formulations
- Lower salt levels over traditional amides
- Extremely mild to both skin and eyes
- Low color
- No odor
- Ultimately biodegradable

## APPLICATIONS

- Shampoos
- Bubble bath
- Hand soap
- Body washes
- Hand gels



## INCI NAMES / CAS NUMBERS / CLEARANCES

**Cola<sup>®</sup>Liquid DC** Cocamide DIPA  
68855-69-6  
TSCA, DSL, ASIA-PAC, ECL, IECSC

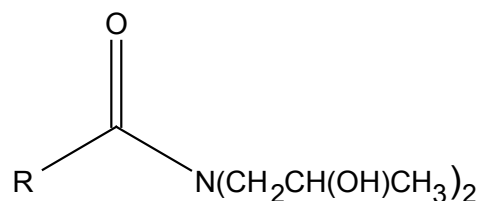
**Cola<sup>®</sup>Liquid DO** Soyamide DIPA  
68855-71-0  
TSCA, NDSL, ASIA-PAC, ECL

**Cola<sup>®</sup>Liquid DL** Lauramide DIPA  
54914-38-4  
TSCA, NDSL, ASIA-PAC, EINECS, REACH, ENCS, IECSC

**Cola<sup>®</sup>Liquid DM** Myristamide DIPA  
83270-36-4  
EINECS, REACH, AICS, NZIoC, ASIA-PAC

## TYPICAL PROPERTIES / STRUCTURE

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



**DC** R from C-18 triglyceride  
**DO** R from soya  
**DL** R from lauryl  
**DM** R from myristic

## BIODEGRADABILITY

Cola®Liquid DC, which is indicative of other Cola®Liquid products, has been tested according to Method OECD 301D and determined to be **ultimately biodegradable**.

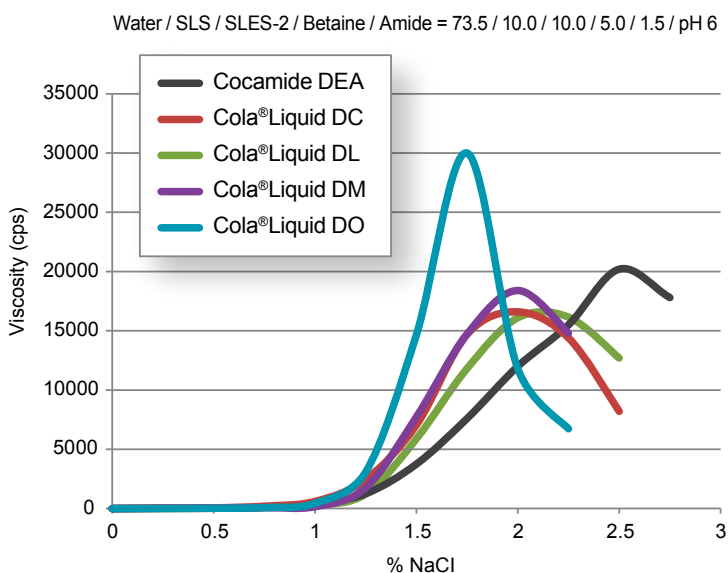
## TOXICOLOGICAL PROPERTIES

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 **2.0**
- 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.

## FORMULATING WITH COLA®LIQUID LIQUID AMIDES

The graph below demonstrates similar performance of Cola®Liquid products to a traditional DEA amide. Cola®Liquid DO offers a unique viscosity-building performance. Salt curves were performed on a typical shampoo base. Performance of Cola®Liquid products will vary depending on your particular formulation.



These samples are representative of typical Cola®Liquid products.



## Naturally-Derived Sulfate-Free Shampoo

INGREDIENT	%
1 Water	qs to 100.00
2 <b>Suga®Nate 160</b>	25.00
3 <b>Cola®Teric LMB</b>	10.00
4 <b>Cola®Liquid DC</b>	1.00
5 <b>Cola®Mate DSLS</b>	5.00
6 <b>Cola®Moist 200</b>	1.00
7 <b>Suga®Quat TM-8610</b>	2.00
8 Preservative	qs

**Procedure:** Combine, adjust pH with citric acid.

**Appearance:** Clear, viscous liquid

**Specifications:** pH = 6 - 7

## STORAGE / HANDLING

Cola®Liquid products should be stored in sealed containers in a cool, dry place out of direct sunlight.

Cola®Liquid products are available in poly 55-gal drums, net weight 450 lbs (204.1 kg). Safety Data Sheets may be found at [www.colonialchem.com](http://www.colonialchem.com).



## Colonial Chemical

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*Innovative Specialty Surfactants*