



Cola[®]Teric CHGL

Sultaine Amphoteric with Enhanced Properties

INCI	Cocamidopropyl Hydroxysultaine and Glycerol Laurate
CAS	68139-30-0 and 142-18-7
LISTINGS	USA (TSCA), Canada (DSL), EU (REACH Registered), Australia (AICS); China (IECIC/IECSC); Philippines (PICCS); New Zealand (NZIOC)



Cola[®]Teric CHGL combines the benefits of Cocamidopropyl Hydroxysultaine and Glycerol Laurate into one easy to handle liquid product for formulating luxurious facial cleansers, body washes, and hand soaps.

BENEFITS

- Foam boosting and stabilization
- Extremely mild
- Outstanding skin feel
- Enhanced viscosity performance
- No Prop 65 components
- Contributes to product preservation
- Cold process additive
- PEG-free
- Alkanolamide-free
- Preservative-free

APPLICATIONS

- Sulfate-free shampoos
- Conditioning shampoos
- Liquid hand soaps
- Body washes
- Mild facial cleansers

MatTek[®] Epi-Ocular Test

In vitro epidermal keratinocytes (4% solids)
ET-50 test is >256 minutes
Results indicate 'non-irritating' classification.

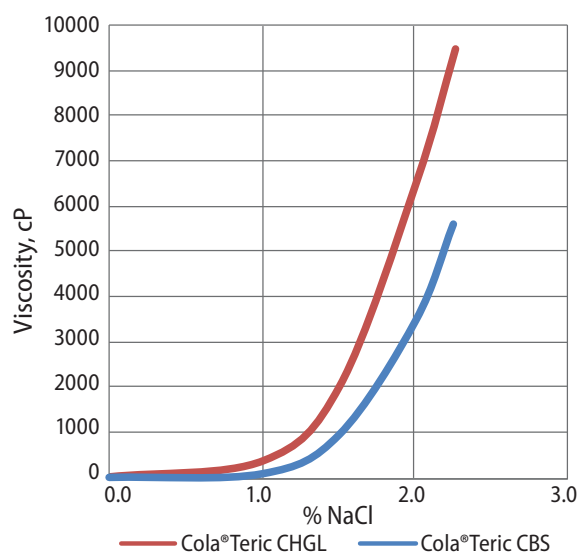
TYPICAL PROPERTIES

Appearance (25°C)	Clear to Turbid Liquid
pH (5% Solution)	6.5
% Solids (2g, 1hr)	45.0
Viscosity, cP	5,000
Color, Gardner '98	1

PERFORMANCE TESTING

Using Cola[®]Teric CHGL in place of standard sultaine (Cola[®]Teric CBS) in the following traditional system allowed for reduced salt usage and enhanced viscosity response.

INGREDIENT	COLA [®] TERIC CBS	COLA [®] TERIC CHGL
Water	qs to 100.00	qs to 100.00
Colonial SLES-2	30.00	30.00
Cola[®]Teric CBS	6.00	-
Cola[®]Teric CHGL	-	6.00
Euxyl PE 9010	1.00	1.00
Citric Acid, 50%	qs to pH 6	qs to pH 6



PROCESSING BENEFITS

- Cola®Teric CHGL disperses readily into surfactant mixtures without heating or special mixing equipment.
- Cola®Teric CHGL is easily soluble in surfactant solutions. Clear formulations are obtained in combination with other surfactants (e.g. anionic and/or amphoteric).
- Cola®Teric CHGL can be added during every step of production.

FORMULATION BENEFITS

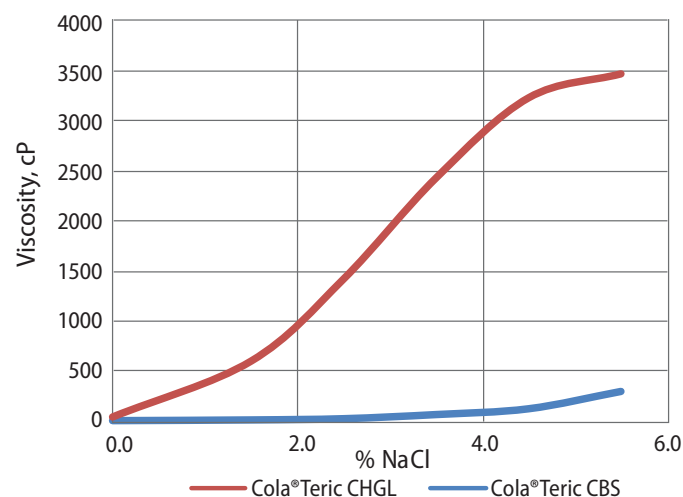
- Extremely efficient foam booster, stabilizer, and thickener.
- Reduces the prevalence of “long” or “stringy” appearance in low-solid surfactant formulations.
- Useful in reducing the amount of salt needed to achieve optimum viscosity, especially in difficult-to-build sulfate-free formulations.

EXAMPLE

Replacing just a portion of the standard sultaine in this slow-responding sulfate-free system allowed for much higher viscosity response with a more typical salt addition.

INGREDIENT	A	B
Water	qs to 100.00	qs to 100.00
Sodium Lauroyl Sarcosinate	12.00	12.00
Suga®Nate 160NC	12.00	12.00
Sodium Cocoyl Glutamate	6.00	6.00
Cola®Teric CBS	8.00	6.00
Cola®Teric CHGL	-	2.00
Citric Acid, 50%	qs to pH 5.5	qs to pH 5.5

PROPERTY	A	B
Appearance	Clear	Clear
pH (as is)	5.5	5.5
Viscosity @ 4.5% NaCl, cP	120	3,230



Antioxidant Purifying Shampoo (Sulfate-Free) No. 1047

A deep cleanse that gently washes out damaging impurities. Removes buildup and residue and infuses with antioxidants to detox hair from damaging impurities. Specially formulated for use on color-treated hair.

TRADE NAME / INCI NAME	%
1 Water	qs to 100.00
2 Suga®Nate 160NC / Sodium Laurylglucosides Hydroxypropylsulfonate	11.00
3 Cola®Mate LA-40 / Disodium Lauryl Sulfosuccinate	8.00
4 Cola®Lipid GS / Sodium Grapeseedamidopropyl PG-Dimonium Chloride Phosphate	2.00
5 Cola®Teric CHGL / Cocamidopropyl Hydroxysultaine and Glyceryl Laurate	18.00
6 <i>SharoSENSE™ Plus 181</i> / Maltol and Polyquaternium-80	0.50
7 Fragrance	0.20
8 Sodium Hydroxide	qs to pH 6.0 – 7.0

PROCEDURE:

Combine ingredients 1 – 2 and heat to 40 – 45°C. Add ingredient 4 and mix until clear and uniform, then cool below 40°C. Once below 40°C, add ingredients 4 – 7 in order, mixing until clear and uniform with each addition. Adjust to pH 6.0 – 7.0 with sodium hydroxide (viscosity is pH dependent).

TYPICAL PROPERTIES:

Appearance: Clear, Light Amber, Viscous Liquid
pH: 6.0 – 7.0
Viscosity: 5,000 – 10,000 cP

Cola®Teric CHGL is “Derived Natural” with a Natural Origin Index of 0.82 in accordance with ISO 16128 guideline.

Readily biodegradable per OECD 301 methods. This product meets the criteria for a surfactant under the EU Detergents Regulation (EC) 648/2004.

STORAGE / HANDLING

Cola®Teric CHGL 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/204.1 kg). Typical shelf life is 12 months from date of manufacture. Safety Data Sheets may be found at www.colonialchem.com.



Colonial Chemical

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Innovative Specialty Surfactants