

# Cola®Teric CDB

**Betaine Surfactant** 

**INCI NAME** Cetyl Betaine

CAS NUMBER 693-33-4 and 683-10-3

**LISTINGS** USA (TSCA); EU (REACH Preregistered); Canada (DSL); Australia (AICS); Philippines (PICCS); New Zealand (NZIoC); China (IECSC); Japan (ENCS)

Cola®Teric CDB is derived from natural fatty acids. It is a mild, unique secondary surfactant that can improve the viscosity response of sulfate-free and conventional anionic surfactant systems. Cola®Teric CDB is formulated for cold processing and easy handling and can also be used as a primary surfactant, foam booster or static control agent. Cola®Teric CDB is compatible with anionic, nonionic and cationic surfactants.

# **APPLICATIONS**

- Shampoos and Shower Gels
- Bubble Baths
- Baby Products
- Hand Soaps
- Facial Cleansers
- Pet Shampoos
- Hair Conditioners and Cream Rinses

# **BENEFITS**

- Secondary or primary surfactant
- Viscosity builder
- Foam booster
- Antistatic agent
- Anionic, nonionic and cationic compatible
- Readily biodegradable
- · Increased foam density for creamy lather
- Alcohol-free

# **TYPICAL PROPERTIES / STRUCTURE**

Appearance	Clear Liquid	
pH, 10% aqueous	6.5	
% Solids (2g/1hr)	37	
% Active	30	
% NaCl	6.2	
Color, Gardner '98	1	
Viscosity @ 25°C	300 cps	
Specific Gravity	1.06	
% Free Amine	0.2	
Draves wetting speed (sec) @ 1% active	3.7	
Ross Miles Foam Height (mm) @ 1% active		

Ross Miles Foam Height (mm) @	1% active
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Immediate	165
1 min.	155
5 mins.	145

# Surface Tension (dynes/cm)

Test @ 0.1%	36.9
Test @ 0.01%	36.5
Test @ 0.001%	39.2

$$R \longrightarrow N^{+} \longrightarrow CH_{2}COO^{-}$$
 $CH_{3}$ 
 $R = C_{12\sim 16}$ 

# **EYE IRRITATION**

HET-CAM: Hen's Egg Test Chorioallantoic Membrane: Moderate irritation potential in vivo, score of **12.25** (4% solids).

# **ACUTE SKIN IRRITATION**

48 Hour occlusive skin patch test: On human volunteers - 50/50 Test Subjects: no visible skin reaction, **no** potential for dermal irritation.

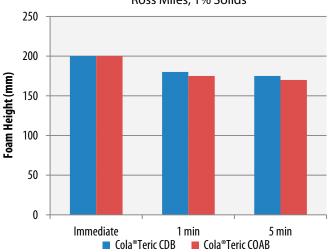


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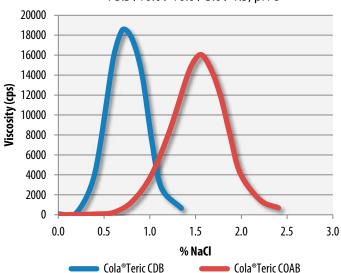
#### **PERFORMANCE TESTING**

Cola®Teric CDB yields similar foam heights to Cocamidopropyl Betaine (Cola®Teric COAB), while offering improved viscosity performance and generating denser foam structures.

Water/SLS/SLES-2/Cola®Teric = 75/10/10/5, pH 6 Ross Miles, 1% Solids



Water / SLS / SLES-2 / Betaine / Cola®Liquid DC = 73.5 /10.0 / 10.0 / 5.0 / 1.5, pH 6



#### **FORMULATION**

# **Economy Natural Hand Soap** (Easy Blend) #4015

	INGREDIENT	%
1	Water	qs to 100.00
2	Cola®Det KC-40	30.00
3	Cola®Teric CDB	10.00
4	Sodium Chloride	6.00
5	Green Tea Fragrance (Premier)	0.20
6	Preservative	qs

#### Procedure:

Combine ingredients 1-3. Heat to 45°C and add remaining ingredients, mixing until clear and homogenous.

# **Typical Properties:**

Appearance: Clear Liquid pH: 9.0 - 9.5

Viscosity: 3,000 cps

# **FORMULATION**

# **Economy Sulfate-Free Shower Gel**

#2027

	INGREDIENT	%
1	Water	qs to 100.00
2	Colonial AOS-40	30.00
3	Cola®Teric CDB	10.00
4	Sodium Chloride	2.80
5	Green Tea Fragrance (Premier)	0.20
6	Preservative	qs

### Procedure:

Combine ingredients in order with adequate mixing between additions. Adjust pH to 6.0 – 6.5.

# **Typical Properties:**

Appearance: Clear Liquid pH: 6.0 – 6.5

Viscosity: 15,000 cps

## STORAGE AND HANDLING

Cola®Teric CDB should be stored in closed containers. Shelf life is 24 months from date of manufacture. A Safety Data Sheet is available at www.colonialchem.com.

# **PACKAGING**

Cola®Teric CDB is shipped in poly 55-gal drums, net weight 450 lbs (204.1 kg).



# **Colonial** Chemical

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Innovative Specialty Surfactants

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