



Cola[®]Teric 2COSF

CTFA/INCI Name: Sodium Capryloamphopropionate
CAS# 70983-43-6

DESCRIPTION

Cola[®]Teric 2COSF is a caprylic imidazoline-derived amphoteric surfactant that provides excellent wetting, detergency, rinsibility, and effective hydrotroping properties in a wide range of electrolyte systems. This low to moderate foaming amphoteric is ideally suited for use in household and industrial cleaners, alkaline degreasers, transportation cleaners, and textile/carpet care formulations.

PROPERTIES

Cola[®]Teric 2COSF is supplied as a 50% active aqueous solution in the form of its sodium salt. This amphoteric offers the formulator a unique combination of outstanding physical properties. It is soluble and stable in a wide range of concentrated electrolyte systems while exhibiting a remarkable reduction in surface tension and improvement in wetting properties.

Cola[®]Teric 2COSF is completely stable in acid and alkaline systems and can be used in either dry or liquid caustic systems without causing discoloration or losing effectiveness.

PERFORMANCE DATA

Surface Tension Reduction vs. Concentration

<u>Weight % Cola[®]Teric 2COSF in use dilutions</u>	<u>Surface Tension (dynes/cm)</u>
1.000	25.1
0.100	26.8
0.010	41.7
0.001	60.5

Hydrotrope Properties

% Nonionic *	Active weight % Cola [®] Teric 2COSF required for 70°C Cloud Point			
	% NaOH			
	5	10	15	20
1	1.06	1.20	2.46	---
3	1.60	2.75	7.50	---
5	2.10	4.20	12.50	---

* Igepal CO – 710 (Rhône-Poulenc)

TYPICAL PROPERTIES

Appearance	Amber Liquid
pH (10% Solution)	10.6
Specific Gravity (25°C)	1.10
% Activity	50
Alkali stability (10% Aqueous Solution)	Stable in 25% NaOH
Acid stability (10% Aqueous Solution)	Stable in 10% H ₂ SO ₄
Solubility in electrolytes of 10% 2COSF	
% Sodium Chloride Solution	
10%	Clear Liquid
20%	Clear Liquid
27%	Clear Liquid
% Sodium Metasilicate 5 H ₂ O Solution	
10%	Clear Liquid
20%	Clear Liquid
35%	Clear Liquid
% Sodium Hydroxide Solution	
20%	Clear Liquid
25%	Paste
50%	Paste
% Calcium Chloride Solution	
40%	Clear Liquid
Foam Height @ 0.1% conc. in deionized water	35 mm

TYPICAL FORMULATIONS

Aluminum Cleaner

	<u>% by weight</u>
Water	89.00
Sodium Metasilicate Pentahydrate	4.00
Cola[®]Teric 2COSF	<u>7.00</u>
	100.00

Extraction Carpet Cleaner

	<u>% by weight</u>
Water	77.50
Butyl Carbitol	4.50
Syntran 1580**	15.00
Cola[®]Teric 2COSF	1.50
Cola[®]Wet DOSS 70	<u>1.50</u>
	100.00

Recommended use dilution: 4–6 oz./gal.

** For anti-redeposition (Interpolymer)

Concentrated Liquid Steam Cleaner

	<u>% by weight</u>
Cola[®]Teric 2COSF	15.0
Sodium Metasilicate •5 H ₂ O	20.0

Liquid Acid Cleaner

	<u>% by weight</u>
Cola[®]Teric 2COSF	2.0
Gluconic Acid	6.0

Potassium Hydroxide (45%)	22.0	Phosphoric Acid (85%)	54.7
Water	<u>43.0</u>	Water	<u>37.3</u>
	100.0		100.0

Heavy Duty All-Purpose Cleaner

	<u>% by weight</u>
Cola [®] Teric 2COSF	4.0
Sodium Metasilicate •5 H ₂ O	4.0
Sodium Carbonate (Anhydrous)	2.0
Nonylphenol Ethoxylate	4.0
Diethylene glycol monobutyl ether	1.0
Water	<u>85.0</u>
	100.0

Liquid Cleaner for High Pressure Application

	<u>% by weight</u>
Water	44.0
Cola [®] Teric 2COSF	20.0
Sodium Carbonate (Anhydrous)	22.0
Sodium Metasilicate •5 H ₂ O	10.0
Sodium Benzoate	1.0
Sodium Xylene Sulfonate	1.0
Diethylene glycol monoethyl ether	<u>2.0</u>
	100.0

Prepare a fresh blend of 3 parts Cola[®]Teric 2COSF and 1 part Cola[®]Teric CA-35. Add 3% of this blend to 72% water and 25% caustic flakes, allow to exotherm at 80°C and hold for ½ hour, then cool to room temperature under agitation. Full gellation occurs in approximately 8 hours.

BIODEGRADABILITY

Cola[®]Teric 2COSF is biodegradable.

LAST UPDATED 07/17/2006

WARRANTY

Colonial Chemical guarantees that its products meet published specifications. No other warranties or guarantees are expressed or implied because the use of this material is beyond the control of Colonial Chemical.

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