



Cola[®]Teric AP

CTFA/INCI NAME: Sodium Dicarboxyethyl Coco Phosphoethyl Imadazoline

DESCRIPTION

Cola[®]Teric AP is a salt-free organophosphate amphoteric that provides hydrotroping properties in high alkaline built systems that are formulated with conventional and capped low foaming nonionics. **Cola[®]Teric AP** improves the rinsibility of these systems by providing less streaking and redeposition of soil on the cleaned surface. **Cola[®]Teric AP** also enhances the detergency of nonionics. **Cola[®]Teric AP** is suited for use in industrial detergent cleaners, such as alkaline metal cleaning, high pressure spray cleaners, alkaline degreasers, scrubbing compounds, acid cleaners, transportation cleaners and various other hard surface detergent formulations.

Detergency Enhancement – In alkaline metal cleaning tests, **Cola[®]Teric AP**, when mixed at equal activity with all ethoxylated nonionics, provides dramatic improvement of hard surface detergency properties. Blends containing **Cola[®]Teric AP** significantly outperformed blends containing similar concentrations of sodium xylene sulfonate.

FEATURES

- Outstanding rinsibility
- Synergizes detergency with nonionics
- Stable in acid and alkaline systems
- Effectively lowers formulation krafft point
- Compatible with all surfactant types

TYPICAL PROPERTIES

Appearance	Clear, thin amber liquid
Activity	35%
Color (GVCS-33)	9
pH (10%)	7.0
Specific Gravity	1.09
Weight/Gallon	9.1 lbs.

HYDROTROPING PROPERTIES

Very low concentrations of **Cola[®]Teric AP** will solubilize anionics and both high foaming and low foaming ethoxylated nonionics in high concentrations of acids and alkalis.

Cola[®]Teric AP also improves the surface active properties such as wetting, penetrating and detergency of formulations.

FORMULATIONS

LOW FOAMING ACID CLEANER

In this low foaming acid cleaner, **Cola[®]Teric AP** effectively hydrotropes a low foaming nonionic. Additionally, **Cola[®]Teric AP** contributes to detergency, wetting and rinsibility.

<i>Components</i>	<i>Wt. %</i>	<i>Act. %</i>
Water	80.6	--
Phosphoric Acid (85%)	15.0	12.75
Triton DF-12 (Dow Chemical)	3.0	3.00
Cola[®]Teric AP	1.4	0.50
	100.0	16.25

Recommended use dilution 1:20
Cloud point (1:20 dil. in 250 ppm H₂O) 40°C
Draves wetting (1:20 dil. in 250 ppm H₂O) 7 sec.
Foam height (1:20 dil. in 250 ppm H₂O, 160°F) 5 ml.

LOW FOAMING ALKALINE CLEANER

In the following low foaming alkaline cleaner a clear solution is obtained with 3.2% active **Cola[®]Teric AP**.

<i>Components</i>	<i>Wt. %</i>	<i>Act. %</i>
Water	69.5	--
NaOH (50%)	20.0	10.0
Surfonic LF-17 (Huntsman)	1.5	1.5
Cola[®]Teric AP	9.0	3.2
	100.0	14.7

Cloud point 32°C
Recommended use dilution 1:20
Foam height (1:20 dil. in 250 ppm H₂O, RT) 3 ml.

HIGH FOAMING ALKALINE CLEANER

In this high foaming alkaline cleaner using DDBSA (Dodecylbenzene sulfonic acid), **Cola[®]Teric AP** effectively controls the krafft point and improves the rinsibility and detergent properties.

<i>Components</i>	<i>Wt. %</i>	<i>Act. %</i>
Water	72.8	--
NaOH (50%)	20.0	10.0
DDBSA	1.5	1.5
Cola[®]Teric AP	5.7	2.0
	100.0	13.5

Recommended use dilution
Draves wetting (1:20 dil. in 250 ppm H₂O)
Foam height (1:20 dil. in 250 ppm H₂O, RT)

1:20
20 sec.
85 ml.

MEDIUM DUTY CLEANERS

The following medium duty cleaners using various nonionics, silicates and other electrolytes exhibit significantly higher cloud points and improved detergency when **Cola[®]Teric AP** is used.

<i>Components</i>	<i>Wt. %</i>	<i>Act. %</i>
I. Water	92.5	--
Sodium M-Silicate (Anhydrous)	2.6	2.60
Sodium Ash	1.7	1.7
Tetrasodium Pyrophosphate	1.3	1.30
Igepal CO-710 (Rhône Poulenc)	1.2	1.20
Cola [®] Teric AP	0.7	0.25
	100.0	7.05

Cloud Point 64°C

<i>Components</i>	<i>Wt. %</i>	<i>Act. %</i>
II. Water	87.1	--
Sodium M-Silicate (Anhydrous)	6.0	6.0
Surfonic N-95 (Huntsman)	4.0	4.0
Cola [®] Teric AP	2.9	1.0
	100.0	11.0

Cloud Point 65°C

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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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