



# Cola<sup>®</sup>Lac 426

Hair Conditioning Agent

<b>CHEMICAL NAME</b>	Isostearamidopropyl Morpholine Lactate
<b>CAS NUMBER</b>	72300-24-4
<b>LISTINGS</b>	USA (Personal Care Only); Canada (DSL); New Zealand (NZIoC); Philippines (PICCS)

**Cola<sup>®</sup>Lac 426** is an amido amine lactate used in the formulation of conditioners in hair and skin care products. Unlike quaternary ammonium cationics, Cola<sup>®</sup>Lac 426 rinses quickly and prevents tangling without reducing foam. Cola<sup>®</sup>Lac 426 is also compatible with anionic surfactants and may be used in formulations for clear shampoo and skin cleansers.

## BENEFITS

- Easily rinsed, doesn't build-up
- Non-irritating
- Easily fragranced

## IRRITATION TESTING

At an active level of 4%, Cola<sup>®</sup>Lac 426 is non-irritating to the skin and eyes.

### *Eye Irritation*

HET-CAM: Hen's Egg Test chorioallantoic membrane:

**Result:** Score of **1.75** (no ocular irritation potential in vivo)

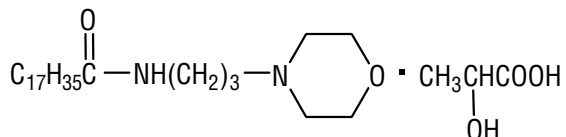
## SUGGESTED USE LEVELS

Conditioning Shampoos	0.5% - 2%
Hair Conditioners	1% - 3%
Body Washes	2% - 4%



## TYPICAL PROPERTIES / STRUCTURE

Appearance @ 25°C	Clear Liquid
pH (as is)	4.0 - 5.0
Solids, %	24.0 - 26.0
Color, Gardner '98	2 Max.



## SUSTAINABLE

Bio-Based Value	75%
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## FORMULATION

### Wrap N' Style Foam

No. 1031

This formulation features *Cola®Lac 426*, *Cola®Quat PDQ*, and *Poly Suga®Mulse D9* for a conditioning and smoothing foam that adds protection and shine. Simply apply foam to hair, comb through, dry and style. Protects hair against heat and breakage, giving you a healthy and shiny look.

	INGREDIENT	%
1	Water	qs to 100
2	<i>Cola®Lac 426</i> (Istosteamidopropyl Morpholine Lactate)	6.00
3	<i>Cola®Quat PDQ</i> (Polyquaternium-88)	5.00
4	Liponate® SB-50 (PEG-50 Shea Butter)	3.00
5	<i>Poly Suga®Mulse D9</i> (Sorbitan Oleate Decyl-glucoside Crosspolymer)	2.00
6	Fragrance	0.10
7	Kathon™ CG (Methylchloroisothiazolinone and Methylisothiazolinone)	0.05

#### Procedure:

Combine ingredients in order. Mix until clear, heating to 40 – 45°C if necessary. Adjust to pH 5.0 – 5.5 with sodium hydroxide.

#### Typical Properties:

Appearance:	Clear liquid
pH:	5.0 – 5.5
Viscosity:	20 cP



## STORAGE / HANDLING

*Cola®Lac 426* should be stored in sealed containers at temperatures not exceeding 120°F (49°C). Shipped in 55 gallon poly drums (net weight 450 lb/204 kg). Typical shelf life is 12 months from date of manufacture. Safety Data Sheets may be found at [www.colonialchem.com](http://www.colonialchem.com).

## FORMULATION

### Grapefruit Body Scrub (Sulfate-Free)

No. 2035

This formulation features *Suga®Nate 160NC*, *Cola®Teric CBS-HP*, *Cola®Mate LA-40*, *Cola®Lac 426* and *Poly Suga®Mulse D9* for a powerful yet gentle wash for your skin. This grapefruit scented body scrub with natural gentle Jojoba beads will leave your skin feeling smooth and soft.

	INGREDIENT	%
1	Water	qs to 100
2	Keltrol® CG-SFT (Xanthan Gum)	1.25
3	Glycerin	3.00
4	<i>Cola®Teric CBS-HP</i> (Cocamidopropyl Hydroxysultaine [Fatty Acid])	10.00
5	<i>Cola®Mate LA-40</i> (Disodium Lauryl Sulfosuccinate)	13.50
6	<i>Cola®Lac 426</i> (Istosteamidopropyl Morpholine Lactate)	2.00
7	<i>Suga®Nate 160NC</i> (Sodium Laurylglucosides Hydroxypropylsulfonate)	10.00
8	Grapefruit Oil (Citrus Paradisi Peel Oil)	0.25
9	<i>Poly Suga®Mulse D9</i> (Sorbitan Oleate Decylglucoside Crosspolymer)	0.50
10	MinaCare® Pentiol Green+ (Pentylene Glycol)	1.50
11	MicroCare® SB (Sodium Benzoate and Potassium Sorbate)	1.00
12	OFJ™ Spheres Watermelon Patch 20/40 (Jojoba Esters)	1.00

#### Procedure:

Disperse xanthan gum in glycerin to create a smooth slurry. Add the slurry to water with moderate mixing. Mix until completely hydrated. Add ingredient 4 while heating to 45°C. Once at temperature, add ingredients 5-7. Mix until completely homogenous. Combine ingredients 8-9 separately as a premix and add to batch. Add remaining ingredients with gentle to moderate mixing. Mix until the beads are evenly dispersed.

#### Typical Properties:

Appearance:	Clear liquid with exfoliating beads
pH:	6.0
Viscosity:	6,000 cP



## Colonial Chemical

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*Innovative Specialty Surfactants*

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