



Colonial S18PF

Palm-Free Conditioning Agent

INCI Stearamidopropyl Dimethylamine
CAS 7651-02-7
LISTINGS Canada (DSL), US (TSCA), Australia (AICS), Japan (ENCS), Korea (KECI), China (IECSC/IECIC), Philippines (PICCS), New Zealand (NZIOC), Taiwan (TCSI)

FEATURES

- 80% biobased carbon
- Primary ingredient for all types of opaque conditioners
- Forms a “Quat-free” amine salt when neutralized with organic acids
- Can use a wide variety of acids for different benefits
 - α -Hydroxy acids
 - β -Hydroxy acids
 - Amino acids
 - Fatty acids
- Does not build up on hair
- Excellent wet and dry comb force reductions
- Reduces frizz and fly-away
- Robust emulsification of fatty alcohol for ease in formulation
- Palm free stearic source
- Sustainable feedstock
- Excellent efficacy

APPLICATION

Recommended use levels for Colonial S18PF:

Liquid Conditioners	0.5% – 1%
Leave-in Conditioners	1% – 2%
Cream Hair Conditioners	1% – 3%
Conditioning Masques	2% – 4%
2 in 1 Shampoos	0.5% – 1%

TYPICAL PROPERTIES / STRUCTURE

Appearance, 25°C	Waxy Solid Flake
Alkali Value	134
Free Ester, %	1.5
Free DMAPA, %	0.4
Color, Gardner '98	5 Max.



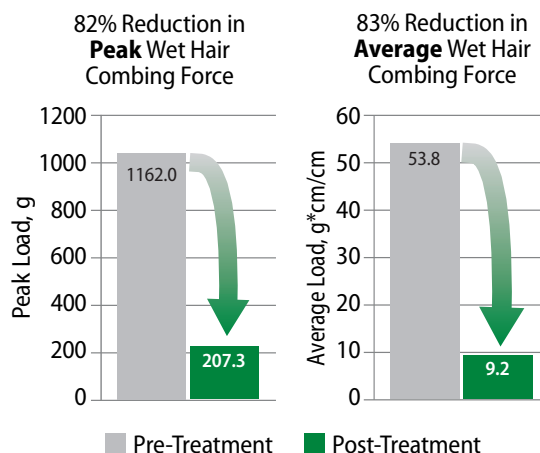
COMBABILITY TESTING

Colonial S18PF was tested in a formulation on lightly bleached brown hair to determine the effect on combability under both wet and dry hair conditions.

Test Formulation:

Water	qs to 100.00
Colonial S18PF	2.00
Cetearyl Alcohol	6.00
Lactic Acid	qs to pH 4.5 – 5.0

Results: The formulation demonstrated excellent conditioning of lightly bleached brown hair, with a significant reduction in both peak and average wet combing force.



Palm-Free Conditioner Bar

No. 1053

Palm-free conditioning bar to leave hair soft, bouncy, and smooth. With nourishing butters and oils, can also be used as a conditioning shaving bar.

	TRADE NAME / INCI NAME	%
1	SustOleo™ BA / Brassica Alcohol	36.00
2	Biochemica® Cocoa Butter Deodorized	22.70
3	Grapeseed Oil	20.00
4	Colonial S18PF / Stearamidopropyl Dimethylamine	16.00
5	PURAC® FCC 88 / Lactic Acid	4.80
6	Fragrance	0.50
7	Dye	qs

PROCEDURE:

Combine ingredients 1 – 4, heating to 60 – 65°C. Once completely melted and uniform, add remaining ingredients while maintaining temperature. Once uniform, pour into desired mold and allow to cool.

Use: Lather bar in hands with warm water. Apply bar to wet hair with a combing/swiping motion and massage through. Leave on for several minutes before rinsing for maximum nourishment. Keep bar dry between uses.

TYPICAL PROPERTIES:

Appearance: Solid, Opaque Bar

Natural Curl Co-Wash

(Palm-Free, Quat-Free)

No. 1054

Plant-based co-wash is free of quats, formulated with nourishing oils and a palm-free conditioning aid to leave hair soft, hydrated, and defined. Great for curly, color-treated, or ultra-dry hair.

	TRADE NAME / INCI NAME	%
A	Water	qs to 100.00
A	PURAC® FCC 88 / Lactic Acid	0.60
B	Grapeseed Oil	6.00
B	Coconut Oil	1.00
B	Hempseed Oil	1.00
B	Colonial S18PF / Stearamidopropyl Dimethylamine	2.00
B	SustOleo™ BA / Brassica Alcohol	5.50
C	Euxyl® K 712 / Sodium Benzoate and Potassium Sorbate	1.00
C	Green Tea Fragrance	0.20

PROCEDURE:

In primary vessel, combine phase A ingredients and heat to 65-70°C. In a separate vessel, combine phase B ingredients and heat to 65-70°C. Once at temperature, add phase B to phase A. Mix until uniform, then begin to cool. Once below 45°C, add remaining phase C ingredients. Mix until uniform.

TYPICAL PROPERTIES:

Appearance: Opaque
pH 4.5 – 5.0
Viscosity 30,000 – 50,000 cP

Colonial S18PF is “Derived Natural” with a Natural Origin Index of 0.72 in accordance with ISO 16128 guideline.

STORAGE / HANDLING

Colonial S18PF should be stored in closed containers. Shipped in 200 lb./90.7 kg open head poly drums. Typical shelf life is 24 months from date of manufacture. Safety Data Sheets may be found at www.colonialchem.com.



Colonial Chemical
Innovative Specialty Surfactants
www.colonialchem.com