



Cola®Lipid C

Coconut-Derived Phospholipid

CTFA/INCI NAME: Cocamidopropyl PG-Dimonium Chloride Phosphate

CAS No.: 83682-78-4

EINECS No.: 280-518-3

INTRODUCTION

Cola®Lipid C is a coconut oil derived phospholipid composed predominantly of diester and triester phosphatides with multiple-chain groups. **Cola®Lipid C** displays a broad range of functional attributes including gentle cleansing and foaming properties, anti-irritation effects when combined with anionic surfactants, unusually high substantivity, long lasting skin conditioning, and broad spectrum antimicrobial activity.



WHY USE COLA®LIPID C?

- Sustainable
- Naturally derived
- Highly substantive to hair and skin
- Broad spectrum antimicrobial activity
- Multi-functional ingredients
- Non-irritating to skin and eyes
- Excellent foamer and cleanser

WHAT DOES IT DO?

- Provides strong self-preservation activity
- Gently cleanses
- Reduces anionic formulation irritation
- Deposits essential fatty acids on skin
- Repairs damaged skin and hair
- Mimics natural phospholipids

TYPICAL PROPERTIES

Appearance	Clear Yellow Liquid
pH (10% Solution)	7.0
Specific Gravity (25°C)	1.03
Solids, %	47.0

TOXICOLOGICAL PROPERTIES

Dermal (5% in water)

48 Hour Occluded Human Patch - 50 Subjects

- 48/50 Completely Non-Irritating
- 2/50 Barely Perceptible Erythema

Ocular (3% in water)

InVitro Int. Eytex Rapid Membrane Assay

- Classification Minimal/Mild

Sensitization (5% in water)

Repeated Insult Occluded Patch - 50 Subjects

- No evidence of induced allergic contact dermatitis in humans

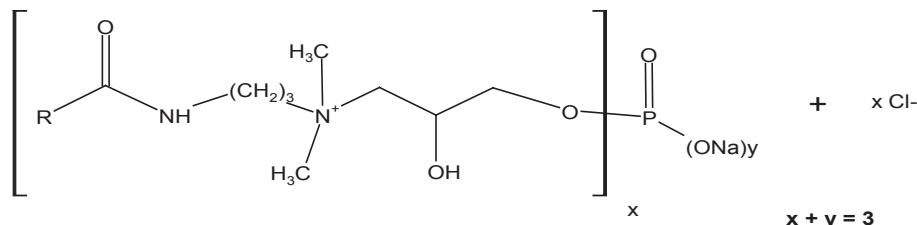
Cola®Lipid C is approved for use under CFR.21,176.210.



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STRUCTURE



ANTIMICROBIAL PROPERTIES

Cola®Lipid C can be used to reduce or eliminate the use of classical preservatives to achieve self-preservation strategies with improved skin health benefits. Its performance is not adversely affected by solution pH, anionic or nonionic surfactants, or typical preservative deactivators.

Test Organism	ATCC	Type Number	Minimum Inhibitory Concentration (active ppm)
Staphylococcus aureus	6538	Gram +	141
Staphylococcus epidermidis	14409	Gram +	141
Streptococcus faecalis	6569	Gram +	141
Bacillus subtilis	6633	Gram +	71
Bacillus cereus	11778	Gram +	71
Micrococcus luteus	4698	Gram +	141
Escherichia coli	8739	Gram -	24
Proteus mirabilis	9921	Gram -	24
Pseudomonas aeruginosa	15442	Gram -	141
Pseudomonas cepacia	25608	Gram -	71
Pseudomonas stutzeri	17591	Gram -	71
Salmonella choleraesuis	10708	Gram -	588
Enterobacter aerogenes	13048	Gram -	588
Klebsiella pneumoniae	13883	Gram -	588
Aeromonas hydrophila	9071	Gram -	24
Candida albicans	10259	Yeast	376
Aspergillus niger	6275	Mold	294
P. expansum	1117	Mold	36
Aspergillus oryzae	10196	Mold	2350
Cephalosporium species	12285	Mold	71

TYPICAL FORMULATIONS

BABY WIPE

Cola®Lipid C (Cocamidopropyl PG-Dimonium Chloride Phosphate)	<u>Weight %</u>
Malic Acid	1.0
Water	0.4
	<u>98.6</u>
	100.0

PROCEDURE: Add ingredients and adjust pH to 5.5

SENSITIVE SKIN CLEANSER

Cola®Lipid C (Cocamidopropyl PG-Dimonium Chloride Phosphate)	<u>Weight %</u>
Cola®Teric CDCX 50 (Disodium Cocoamphodiacetate)	2.5
Colonial SLES-2 (Sodium Laureth Sulfate)	12.0
Water	28.0
	<u>57.5</u>
	100.0

PROCEDURE: Add ingredients and adjust pH to 5.5 - 6.0