

# Cola<sup>®</sup>Lipid SAFL

## Naturally-Derived Biomimetic Phospholipid

INCI NAME
CAS NUMBE

**LISTINGS** 

Linoleamidopropyl PG-Dimonium Chloride Phosphate

**CAS NUMBER** 83682-78-4

TSCA (US), DSL (Canada), REACH (EU), AICS (Australia), IECSC & IECIC (China),

KECL (Korea), PICCS (Philippines), NZIoC (New Zealand), TSCI (Taiwan)

Cola®Lipid SAFL is multifunctional, natural triglyceride organic phospholipid complex. It is designed to mimic natural phospholipids that occur naturally in the body and deposits essential fatty acids on skin. Cola®Lipid SAFL is derived from sustainable pure safflower oil and is highly substantive to hair and skin. Safflower oil contains a high level (80%) of linoleic acid, and it provides one of the principal essential fatty acids that is needed to maintain healthy skin. By taking advantage of this oil's unique composition, Cola®Lipid SAFL offers a combination of performance properties for personal and health care applications never before achieved with one single ingredient.

## **APPLICATIONS**

Cola®Lipid SAFL is non-irritating to the eyes and skin and reduces irritation of anionic activity and can be used in a variety of personal care products, including:

- Creams, lotions, shower gels, facial washes
- Hair care products such as conditioners, shampoos, hair tonics and creams
- Pre- and post-sun care creams, lotions, gels
- · Foundations, lipsticks
- Health care products
- Baby products



## **TYPICAL PROPERTIES**

Clear Liquid
6.5 – 7.5
29.0 – 31.0
43.0 – 47.0
4 Max.



## **IRRITATION TESTING**

## **Eve Irritation**

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

**Result:** Score of **7** (slight ocular irritation potential in vivo)

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## **Acute Skin Irritation**

48 Hour occlusive skin patch test - 53 Subjects: **Result:** No visible skin reaction, no potential for dermal irritation.

## Color Protection Shampoo (Sulfate-Free)

ing about stripping color.

This formulation is designed as a sulfate-free, color protection shampoo. Smooths and softens hair without worry-

	TRADE NAME / INCI NAME	%
1	Water	ıs to 100.00
2	Cola®Det EQ-18 / Decyl Glucoside, Co- camidopropyl Hydroxysultaine, Cocamid propyl Betaine, Cocamide MIPA, Disodium Laureth Sulfosuccinate, Disodium Lauryl Sulfosuccinate	
3	<b>Cola®Lux SAO</b> / Soyamidopropylamine Oxide	3.50
4	Cola®Lipid SAFL / Linoleamidopropyl Po Dimonium Chloride Phosphate	G- 1.50
5	MIRASIL® ADMH-E 125 / Aqua and Pro- poxytetramethyl Piperidinyl Dimethicon and Trideceth-6	ne 1.00
6	<i>Microcare® SB /</i> Sorbic Acid and Sodium Benzoate	1.00
7	Fragrance	0.15
8	Citric Acid, 50%	qs to pH

#### PROCEDURE:

Combine ingredients in order until homogeneous. If necessary, heat to  $40-50^{\circ}\text{C}$  to clear. Adjust to pH 5.0-5.5 with citric acid.

## **TYPICAL PROPERTIES:**

Appearance: Clear Liquid pH: 5.0 – 5.5 Viscosity: 4,500 cP

## **Moisture Lock Conditioner**

No. 1027

No. 1004

This mild conditioner is formulated to leave hair soft and shiny without weighing it down. Ingredients include Cola®Lipid SAFL for natural conditioning and Cola®Moist 200 to reduce fly-aways. This formulation was tested on bleached brown hair using Dia-Stron Fibra.One and demonstrated improved combability, with an 81% reduction in peak wet hair combing force.

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1 Water qs to 10	00.00
2 Lanette® O / Cetearyl Alcohol	5.00
Cola®Lipid SAFL / Linoleamidopropyl PG- Dimonium Chloride Phosphate	5.00
4 Cola®Moist 200 / Hydroxypropyl Bis-Hydroxyethyldimonium Chloride	1.00
5 Dow Corning® 556 / Phenyl Trimethicone	1.50
6 Fragrance	0.10
Euxyl® PE9010 / Phenoxyethanol and Ethylhexylglycerin	1.00

#### PROCEDURE:

Heat water to  $60^{\circ}$ C and add ingredients 2 and 3. Homogenize, then cool to  $40-45^{\circ}$ C. Add remaining ingredients. If necessary, re-homogenize until smooth and uniform.

## **TYPICAL PROPERTIES:**

Appearance: Clear Liquid pH: 5.5 – 6.5

Viscosity: 20,000 – 25,000 cP

Cola<sup>®</sup>Lipid SAFL is "Derived Natural" with a Natural Origin Index of 0.92 in accordance with ISO 16128 quideline.



Cola<sup>®</sup>Lipid SAFL contains 92% USDA certified biobased content.

#### STORAGE / HANDLING

Cola<sup>®</sup>Lipid SAFL should be stored in closed containers. Frozen material may be thawed in a warm room, venting drums while warming. Shipped in 55 gallon poly drums (net weight 480 lb/217 kg). Typical shelf life is 12 months from date of manufacture. Safety Data Sheets may be found at www.colonialchem.com.

