



Cola®Lipid SAFL

Naturally-Derived Biomimetic Phospholipid

INCI NAME Linoleamidopropyl PG-Dimonium Chloride Phosphate
CAS NUMBER 83682-78-4
LISTINGS TSCA (US), DSL (Canada), REACH (EU), AICS (Australia), IECSC (China), ECL (Korea), PICCS (Philippines), NZIoC (New Zealand)

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 & creams
- Pre- and post-sun care creams, lotions, gels
- Foundations, lipsticks
- Health care products
- Baby products



IRRITATION TESTING

Eye Irritation

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

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

Acute Skin Irritation

48 Hour occlusive skin patch test - 53 Subjects:

Result: No visible skin reaction, no potential for dermal irritation.

TYPICAL PROPERTIES

Appearance	Clear Liquid
pH, 10% aqueous	6.5 – 7.5
Solids, %	29.0 – 31.0
% Moisture, K. F.	43.0 – 47.0
Color, Gardner '98	4 Max.

FORMULATION

Hand & Body Lotion

	INGREDIENT	%
Part 1	Cola®Lipid SAFL	4.00
	Water	qs to 100.00
Part 2	Steareth-2	2.00
	Light Mineral Oil	4.00
	Cetearyl Alcohol	3.00
	Octyldodecyl Myristate	2.50
	Dimethicone 100cs	1.50

Procedure: Combine ingredients for Part I and II separately and heat to 65° C. Homogenize Part II into I with continued heating until sufficiently mixed. Stir cool to 40° C. Add fragrance, color and preservative as needed.

Properties: pH: 5.5 Viscosity: 20,000 cps

STORAGE / HANDLING

Cola®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.

Colonial Chemical

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