



# Cola<sup>®</sup>Lipid ST

Naturally-Derived Biomimetic Phospholipid

**INCI NAME** Stearamidopropyl PG-Dimonium Chloride Phosphate

**CAS NUMBER** 83682-78-4

**LISTINGS** US (TSCA); EU (REACH); EU (EINECS); Canada (DSL); Australia (AICS); Korea (ECL); Philippines (PICCS); China (IECSC); New Zealand (NZIoC); Japan (ENCS)

**Cola<sup>®</sup>Lipid ST** is multi-functional, 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<sup>®</sup>Lipid ST is derived from sustainable palm and is a highly effective conditioner for skin. Cola<sup>®</sup>Lipid ST produces a refined, highly emollient skin treatment product and provides stabilization to emulsions.

Cola<sup>®</sup>Lipid ST is exceptional for heavy-bodied and high viscosity formulations.

## BENEFITS

- Sustainable, naturally derived
- Easily formulated at skin pH
- Eliminates the tacky/greasy feel of other ingredients, such as glycerin and sorbitol
- Highly substantive to skin
- Reduces the need for coemulsifiers
- Long-lasting skin smoothing properties
- Repairs damaged skin
- Smooth, silky after-feel

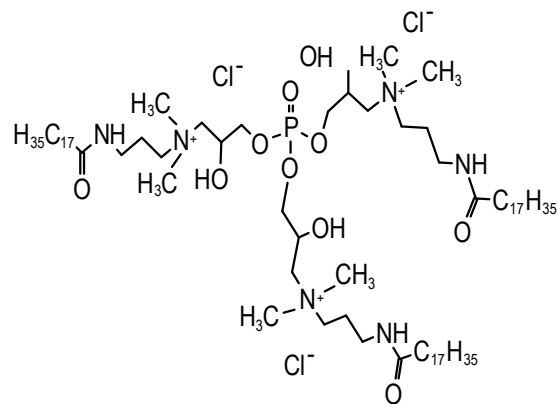
## APPLICATIONS

- Therapeutic, medicated skin lotions
- Sunscreen lotions
- Hand creams
- Moisturizing body washes
- Cleansing lotions
- Baby lotions
- Anti-itch creams
- Acne treatment products



## TYPICAL PROPERTIES / STRUCTURE

Appearance	White Waxy Solid
% Solids	41.5
pH (10% 50:50 IPA/H <sub>2</sub> O)	7.0
% Moisture, K.F.	33.0
Melting point	50°C



### Acute Skin Irritation

**48 Hour occlusive skin patch test:** On human volunteers - 48/50 Test Subjects: **no** visible skin reaction, **no** potential for dermal irritation.

### Eye Irritation

**Rapid Membrane Assay:** In-vitro ocular evaluation (3% in water): Results indicate 'Minimal/Mild' classification.

## FORMULATION

### Face Cream with Coconut Oil

Formula # 3004

This formulation features **Cola®Fax CPE**, **Cola®Lipid ST** and **Cola®Moist 200**. The cream offers intense moisturizing and skin-nourishing properties with the benefits of phospholipid-based emulsifiers. The lightweight cream provides a natural, hydrating touch and works on all skin types.

INGREDIENT	TRADE NAME	%
A Water		qs to 100.00
A Cetyl Hydroxyethylcellulose	Natrosol™ Plus 330CS <sup>1</sup>	0.40
A Cetyl Phosphate	<b>Cola®Fax CPE</b>	1.00
A Potassium Hydroxide		0.40
A Stearamidopropyl PG-Dimonium Chloride Phosphate	<b>Cola®Lipid ST</b>	3.00
A Hydroxypropyl Bis-Hydroxyethylmonium Chloride	<b>Cola®Moist 200</b>	1.00
B	Cetyl Alcohol <sup>2</sup>	2.50
B Myristyl Myristate	HallStar® MM <sup>3</sup>	3.75
B Isopropyl Palmitate	HallStar® IPP-NF <sup>3</sup>	5.00
B Coco-Caprylate	Cetiol® C 5 <sup>4</sup>	1.25
B Coconut Oil		0.60
C Phenoxyethanol Ethylhexylglycerin	Euxyl® PE 9010 <sup>5</sup>	0.50
C Fragrance	White Lily <sup>6</sup>	0.20

#### Procedure:

Disperse Natrosol™ Plus 330CS and Cola®Fax CPE in water. Adjust pH above 8.5 with potassium hydroxide. Begin heating to 60°C. Once homogeneous, add remaining Phase A ingredients. In a separate vessel, heat Phase B to 60°C. Once both phases are at 60°C, add Phase B to Phase A with good mixing. Cool to 50°C and homogenize. Cool to 45°C and add remaining Phase C ingredients.

#### Typical Properties:

Appearance: Opaque pH: 5.5 – 6.0 Viscosity: 500,000 cps

#### Suppliers:

<sup>1</sup>Ashland, <sup>2</sup>Charkit, <sup>3</sup>HallStar, <sup>4</sup>BASF, <sup>5</sup>Schülke & Mayr, <sup>6</sup>Belle-Aire Fragrances

## STORAGE AND HANDLING

Cola®Lipid ST should be stored in closed containers. Frozen material may be thawed in a warm room, venting drums while warming. Shelf life is 12 months from date of manufacture. A Safety Data Sheet is available at [www.colonialchem.com](http://www.colonialchem.com).

## PACKAGING

Cola®Lipid ST is shipped in 20 gal. (57 L) poly drums, net weight 110 lbs. (50 kg).



## Colonial Chemical

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