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

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>%</th>
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<tbody>
<tr>
<td><strong>Part 1</strong></td>
<td>Cola®Lipid SAFL</td>
</tr>
<tr>
<td><strong>Part 2</strong></td>
<td>Water</td>
</tr>
<tr>
<td></td>
<td>Steareth-2</td>
</tr>
<tr>
<td></td>
<td>Light Mineral Oil</td>
</tr>
<tr>
<td></td>
<td>Cetearyl Alcohol</td>
</tr>
<tr>
<td></td>
<td>Octyldodecyl Myristate</td>
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<tr>
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<td>Dimethicone 100cs</td>
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</tbody>
</table>

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
225 Colonial Drive · South Pittsburg, TN 37380
Phone: 423-837-8800 · Fax: 423-837-3888
www.colonialchem.com
Innovative Specialty Surfactants

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