LATHANOL® LAL

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CH₃(CH₂)₁₀CH₂O||CH₂SO₃Na

CAS: 1847-58-1

Inci Name: Sodium Lauryl Sulfoacetate

Applications:
- Primary/Secondary Surfactant
- Foaming Agent
- Wetting Agent
- Emulsifier
- Detergent
- Milder to the skin than ethoxylated alcohol sulfates
- Hard water stable
- Replaces soap when soap sensitization is found

End Product Uses:
- Bubble Baths
- Cream & Paste Shampoos
- Syndet Bars
- Shampoos
- Cleansing Creams

Notes:
- This product is available in powder, flake or coarse forms.

Typical Properties:

- Appearance at 25 °C: Free flowing white powder or flake
- Actives, % (MW 345): 65.0 min.
- pH, 1% aqueous: 6.3
- Moisture, %: 1.5 max.
- Alcohol Insolubles, %: 11.6
- Sodium Chloride, %: 15.0
- RVOC, U.S. EPA, %: 0

Environmental Effects:
- Product is ready biodegradable. Additional information available upon request.

Health Effects:
- LATHANOL LAL is moderately to slightly toxic orally (LD₅₀ = 700 mg/kg). The product causes moderate skin irritation at 70% concentration and minimal to no eye irritation at 3% concentration.

Storage & Handling:
- Normal safety precautions (i.e., safety goggles, dust mask and gloves) should be employed when handling LATHANOL LAL. Contact with the eyes and prolonged contact with the skin should be avoided. Avoid inhaling the dust. Wash thoroughly after handling material. LATHANOL LAL should be used in a well-ventilated area.
- It is recommended that LATHANOL LAL be stored in sealed containers and kept in a cool, dry place to insure against agglomeration and any deterioration in color. Partly used drums should be promptly resealed with drum cover and accessory clamp after twisting and tying off the poly-bag liner. Prolonged storage above 90 °F (32 °C) should be avoided. Avoid overheating.
- Standard Packaging: LATHANOL LAL is available in 55 gallon fiber open head, unlined drums (net weight for coarse: 200 lb./90.4 kg, for flake: 150 lb./67.8 kg, for powder: 250 lb./113 kg.

Workplace Exposure: Occupational exposure can occur primarily through skin contact or via inhalation of vapors and mists. Engineering controls, personal protective equipment, and other workplace practices should be used to control these exposures.

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Clearances

All components of LATHANOL LAL are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: United States (TSCA 1847-58-1), Canada (DSL 1847-58-1), Australia (AICS 1847-58-1), Europe (EINECS 217-431-7), and Japan (ENCS 2-1617 or 2-2839).

It is the responsibility of the formulator to review the chemical control regulations for each country where the end product is intended to be sold or used.

LATHANOL LAL Coarse conforms to Ecocert's natural and organic cosmetic standard and is 100% of natural origin.

LATHANOL LAL is available as Kosher Certified.

CLEAR GEL SHAMPOO

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Wt, % (as is)</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEOL® CS-330</td>
<td>15.0</td>
<td>Secondary Surfactant</td>
</tr>
<tr>
<td>LATHANOL LAL</td>
<td>12.0</td>
<td>Primary Surfactant</td>
</tr>
<tr>
<td>AMPHOSOL® CA</td>
<td>4.0</td>
<td>Secondary Surfactant</td>
</tr>
<tr>
<td>NINOL® 49-CE</td>
<td>3.0</td>
<td>Foam/Viscosity Booster</td>
</tr>
<tr>
<td>Hydrolyzed Collagen</td>
<td>1.0</td>
<td>Conditioning Agent</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>q.s.</td>
<td>Viscosity Adjuster</td>
</tr>
<tr>
<td>Citric Acid (50%)</td>
<td>q.s.</td>
<td>pH Adjuster</td>
</tr>
<tr>
<td>Fragrance, dye, preservative</td>
<td>q.s.</td>
<td></td>
</tr>
<tr>
<td>D.I. Water</td>
<td>q.s. to 100.0</td>
<td>Solvent, Carrier</td>
</tr>
</tbody>
</table>

Mixing Procedure:
Add the first three ingredients to water and mix well. Heat to 55 °C with continuous mixing until solution clears. Add the NINOL 49-CE and continue to mix as you let the solution come to room temperature. Blend in the hydrolyzed collagen. Adjust pH to 6.0-6.5 with the citric acid. Add fragrance, dye and preservative if desired. Add sodium chloride to adjust viscosity.

Physical Properties:
Appearance at 25 °C........................................................................................................... Clear gel
pH (as is)................................................................................................................................. 6.0-6.5

This product bulletin has been written in accordance with ACC’s Product Stewardship guidelines.

A Safety Data Sheet is available upon request.

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