Colonial AOS-40

Colonial AOS-40 is a pale yellow 40% aqueous solution of sodium C14-16 alpha olefin sulfonate. Colonial AOS-40 combines the advantages of high foaming power, good emulsification, mildness to the skin, and excellent lime soap dispersion to give the formulator maximum flexibility in the preparation of light and heavy-duty cleaners. It is also suitable for use in acidic formulations such as those containing alpha hydroxyl acids or salicylic acid.

Colonial AOS-40 is perfect for sulfate-free personal care and detergent products.

APPLICATIONS
- Economical and high-performing sulfate-free, biodegradable shampoos
- Hand soaps and shower gels
- Car washing compounds
- Light-duty liquid detergents
- Heavy-duty laundry detergents

BENEFITS
- Excellent cost/performance characteristics and foam properties
- Improved mildness over lauryl sulfates
- Excellent viscosity and foam characteristics
- More stable than alcohol sulfates over a broad pH range
- Fully compatible with other anionic, amphoteric and nonionic surfactants

TOXICITY

Acute Skin Irritation
48-Hour Occlusive skin patch test on 53 Test Subjects (10.0% active solution)
- 53/53 showed no visible skin reaction (0) at 48 and 72 hrs.

Readily biodegradable per OECD 301 methods. This product meets the criteria for a surfactant under the EU Detergents Regulation (EC) 648/2004.

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear Liquid</th>
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</thead>
<tbody>
<tr>
<td>pH, 10% aqueous</td>
<td>6.0</td>
</tr>
<tr>
<td>Active, %</td>
<td>39.0</td>
</tr>
<tr>
<td>Color (KLETT, 5% active)</td>
<td>100 Max.</td>
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<tr>
<td>Unsulfonated matter, %</td>
<td>1.25 Max.</td>
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</tbody>
</table>

FORMULATION

Liquid Skin Cleanser

INGREDIENT  %

1 Water  qs to 100.00
2 Colonial AOS-40  25.00
3 Cola®Teric COAB  10.00
4 Cola®Liquid DC  4.00
5 Citric Acid  qs to pH 5.5
6 Fragrance  qs
7 Preservative  qs
8 Sodium Chloride  0.40

Procedure:
Combine ingredients in order with good mixing.

Appearance: Clear  pH: 5.5  Viscosity: 8,000 cps

STORAGE / HANDLING

Store at temperatures between 50ºF to 100ºF. Avoid excessive heat and cold. Material will freeze and form a solid gel on the bottom of storage containers. Warming and strong agitation is needed to reconstitute the material. Shelf life is 24 months from date of manufacture. Safety Data is available at www.colonialchem.com.

Colonial AOS-40 is shipped in poly 55-gal drums, net weight 450 lbs (204.1 kg).

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

Innovative Specialty Surfactants