

STEPANBLEND® FF40

Product Name	
CAS Registry No.	68439-57-6, 68333-82-4, 61789-40-0
INCI Name	Sodium C14-16 Olefin Sulfonate, Cocamide MIPA, Cocamidopropyl Betaine
Applications	STEPANBLEND FF40 is a 40% solids surfactant blend designed for mild cleansing formulations. This blend is free from sulfated surfactants, Diethanolamine (DEA), Ethylene Oxide (EO)/1,4-Dioxane and preservatives. STEPANBLEND FF40 exhibits ample foam volume and efficient viscosity response to salt. This blend concentrate offers all the benefits of surfactant blends: cold mixability and ease of handling for transport, storage and mixing considerations. STEPANBLEND FF40 may be used in liquid cleansing applications such as shampoos, liquid hand soaps, facial washes, body washes, feminine washes and other bath products.
Typical Properties	<p>Appearance at 25 °C..... Hazy, light yellow liquid</p> <p>pH, 10% aqueous..... 11.5</p> <p>Solids, % 38</p> <p>Sodium Chloride, % 5.0</p> <p>Viscosity at 25 °C, cps 4000</p> <p>Density at 25 °C, g/ml (lbs/U.S. gal)..... 1.04 (8.65)</p> <p>Freeze Point, °C (°F)..... 0 (32)</p> <p>Flash Point, (PMCC), °C (°F) >94 (>201)</p> <p>RVOC, U.S. EPA, % 0</p> <p>Preservative Not required</p>
Environmental Effects	Based on the biodegradation profile of the individual components, STEPANBLEND FF40 is expected to be readily biodegradable.
Storage & Handling	<p>Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling STEPANBLEND FF40. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.</p> <p>It is recommended that STEPANBLEND FF40 be stored in sealed containers at temperatures between 40 °F (4.5° C) and 120 °F (49 °C). Avoid overheating or freezing. If material is frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use. Stepan's recommended re-test for this product is 12 months from the date of manufacture. After 12 months, we recommend the customer re-analyze to assure product is within specification.</p> <p><u>Standard Packaging:</u> STEPANBLEND FF40 is available in 55 gallon drums (net weight 450 lb/204 kg).</p>
Clearances	<p>The active ingredients for STEPANBLEND FF40 are listed in the following countries: United States (TSCA), Australia (AICS), Canada (DSL), China (IECSC), and New Zealand (NZIoC).</p> <p>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.</p>

**Sulfate-Free Fragrance-Free Facial Wash with 1% Salicylic Acid (#1248)**

Ingredients	Wt, % (as is)	Function
STEPANBLEND FF40	32.00	Surfactant Blend
Salicylic Acid, USP Grade	1.00	Active
Sodium Hydroxide, 50% Solution	0.15	pH Adjuster
Preservative	q.s.	Preservative
Deionized Water	q.s. to 100.00	Carrier

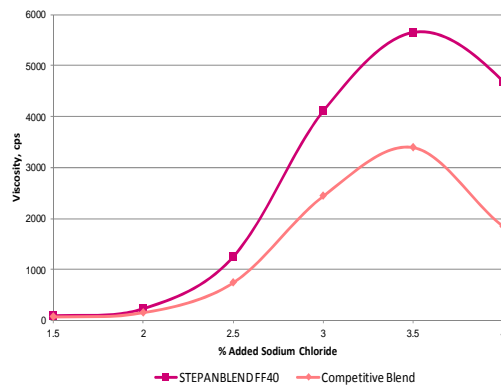
Mixing Procedure:

Combine Deionized Water and STEPANBLEND FF40 with overhead stirring. Add Salicylic Acid. Add Sodium Hydroxide. Mix until homogenous. May adjust with Sodium Chloride or Hexylene Glycol to desired viscosity.

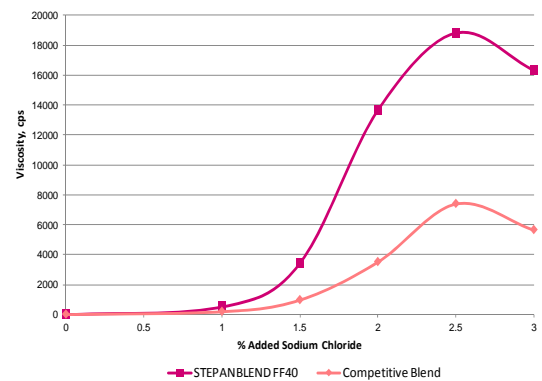
Physical Properties at 25 °C:

Appearance..... Clear, straw-colored liquid
 pH, as is 3.8-4.3
 Viscosity, cps 3000-9000

Surfactant Blend Comparison: STEPANBLEND FF40 vs. Competitive Blend



14.6% by weight blend (~ 6% solids)



25.6% by weight blend (~ 10% solids)

Viscosity Response
to Sodium Chloride at
25 °C

Product
Stewardship

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

Additional
Safety
Information

A Safety Data Sheet is available upon request.



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Stepan 
Corporate Headquarters
Northfield, Illinois 60093, U.S.A.
Phone: 847-446-7500
Fax: 874-501-2100
Website: www.stepan.com

For Technical Service Call:
 Stepan North America **+1-800-745-7837**
 Stepan Mexico **+55-11-5089-2208**
 Stepan Quimica **+55-11-5089-2200**
 Stepan Colombia **+571-636-2808**
 Stepan Europe **+33-476-505-160**
 Stepan Asia **+656-879-9855**
 Stepan Philippines **+656-879-9855**

For Customer Service Call:
 Stepan North America **+1-800-457-7673**
 Stepan Mexico **+52-555-533-1967**
 Stepan Quimica **+55-11-5089-2200**
 Stepan Colombia **+57-6-8993125**
 Stepan UK **+44-161-338-5511**
 Stepan France **+33-476-50-51-00**
 Stepan Philippines **+63-2-842-7951**