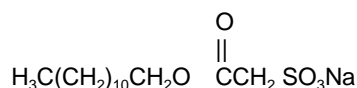


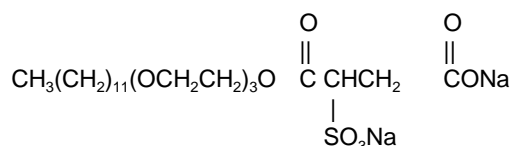
Product Name

STEPAN-MILD[®] LSB

Chemical Structure



Sodium Lauryl Sulfoacetate
and



Disodium Laureth Sulfosuccinate

CAS Registry No.

1847-58-1 and 39354-45-5

INCI Name

Sodium Lauryl Sulfoacetate and Disodium Laureth Sulfosuccinate

Applications

STEPAN-MILD LSB is a versatile anionic surfactant blend which can be used in a variety of personal care applications. It is a mild surfactant blend with good foam quality and viscosity building characteristics in formulated products. It is used for children and baby products as well as for adult products where sensitive skin is involved.

STEPAN-MILD LSB can be used as a mild primary or secondary surfactant. It is less irritating than lauryl and lauryl ether sulfates. STEPAN-MILD LSB easily builds high viscosity with amides and salts and provides excellent foam stability.

It is an exceptional hard water foamer, a highly effective lime soap dispersant and foams well in the presence of soap. STEPAN-MILD LSB should be formulated within the pH range of 5.5 - 6.5.

Typical Properties

Appearance at 25°C.....	Clear liquid	Density, g/ml (lbs/U.S. gal).....	1.03 (8.6)
Actives (EW 491), %	25.0	Solids, %	32.5
pH, 10% aqueous	6.0	Viscosity at 25°C, cps	3000
Color, Gardner	1	Critical Micelle Concentration, g/L.....	2.1
Cloud Point (as is), °C (°F).....	12 (53)	RVOC, U.S. EPA, %	0
Boiling Point, °C (°F)	>100 (212)	% Sodium Sulfate.....	3.0 max.
Pour Point, °C (°F)	3 (37)	% Sodium Chloride	2.0 max.
Freeze Point, °C (°F)	0 (32)	Flash Point (PMCC), °C (°F)	>94 (>201)
Preservative	Benzoic Acid		

Environmental Effects

Product is biodegradable. Additional information available upon request.

Health Effects

STEPAN-MILD LSB is slightly toxic orally (LD₅₀ ≤ 5g/kg). The product causes mild skin and eye irritation at 10% active.

Storage & Handling

Normal safety precautions (i.e. gloves and safety glasses) should be employed when handling STEPAN-MILD LSB. Contact with the eyes and prolonged contact with the skin should be avoided, washing thoroughly after handling material.

STEPAN-MILD[®], STEOL[®], and AMPHOSOL[®] are registered trademarks of the Stepan Company.



Storage & Handling

It is recommended that STEPAN-MILD LSB be stored in sealed containers and kept at a temperature <30°C. Avoid freezing or overheating. If material is frozen, warm slowly to room temperature and agitate to ensure material is homogeneous before use. Do not expose this product to temperatures >30°C for an extended period of time. Sulfosuccinates (a component of LSB) typically display evidence of instability with storage at elevated temperatures, as indicated by a decrease in pH and an increase in the nonionic content which will increase the viscosity of LSB. Stepan's recommended re-test for this product is 6 months from the date of manufacture. After 6 months, we recommend the customer re-analyze to assure product is within specification.

Standard Packaging: STEPAN-MILD LSB is available in 55 gallon drums (net weight 450 lb/204 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.

Clearances

All components of STEPAN-MILD LSB are listed in the following countries: United States (TSCA), Canada (DSL), Australia (AICS), Europe (EINECS), and Japan (ENCS). It is the responsibility of the end user to review the chemical control regulations for each country.

Formulation

MILD, AMIDE-FREE, CLEAR BODY WASH (#1081)

This clear body wash provides creamy foam and nice after-feel.

<u>Ingredients</u>	<u>Wt. % (as is)</u>	<u>Function</u>
<u>Phase 1</u>		
Deionized water	q.s. to 100.0	Carrier
<u>Phase 2</u>		
STEOL® CS-230	28.9	Primary Surfactant
STEPAN-MILD LSB	18.9	Secondary Surfactant
AMPHOSOL® HCG	10.0	Secondary Surfactant
<u>Phase 3</u>		
STEPAN-MILD GCC	2.0	Viscosity Modifier, Foam Stabilizer
<u>Phase 4</u>		
DMDM Hydantoin	0.25	Preservative
Citric Acid	q.s.	pH Adjuster
Fragrance and Dye	q.s.	Additives

Mixing Procedure:

Into a suitable vessel equipped with mixing capabilities, add Deionized Water. Start agitating. Add STEOL CS-230, STEPAN-MILD LSB and AMPHOSOL HCG. Mix well until homogeneous. Add STEPAN-MILD GCC. Mix until clear. Add DMDM Hydantoin, Fragrance and Dye. Adjust pH with Citric Acid if necessary.

Physical Properties:

Appearance at 25°C.....	Clear
pH (as is).....	5.5 – 5.7
Viscosity at 25°C, cps.....	25,000 – 27,000

Product Stewardship

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

Additional Safety Information

A Material Safety Data Sheet is available upon request.

Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.



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

For Technical Service Call: Northfield, IL USA 800-745-7837
Longford Mills, Canada 705-326-7329 • Mexico City, Mexico +52-555-533-1697
Voreppe, France +33-476-505-100 • Bogota, Colombia +57-1-6362808
Stalybridge, United Kingdom +44-141-338-9083
Manila, Philippines +632-891-1708

