

Product Bulletin

Product Name	AMPHOSOL® LB																										
Chemical Structure	$\text{CH}_3(\text{CH}_2)_x\text{C} \begin{array}{c} \text{O} \\ \parallel \end{array} \text{NH} - (\text{CH}_2)_3 - \text{N}^+ \begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_3 \end{array} - \text{CH}_2 \text{COO}^-$ <p style="text-align: right; margin-right: 100px;">$x = 10 \text{ to } 12$</p>																										
Chemical Description	AMPHOSOL LB is a mild amphoteric surfactant derived from narrow cut methyl esters. This characteristic gives the product enhanced foaming properties compared to broad homolog distribution.																										
CAS Registry Number	4292-10-8 and 59272-84-3																										
INCI Name	Lauramidopropyl Betaine																										
Applications	<p><u>Functional Properties</u></p> <ul style="list-style-type: none"> • Primary or secondary surfactant • Foam booster • Viscosity builder • Static Control agent • Compatible with anionics, nonionics and cationics <p><u>End Product Uses</u></p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Bubble Baths • Hair Conditioners • Shampoos • Baby Products </td> <td style="vertical-align: top; padding-left: 20px;"> <ul style="list-style-type: none"> • Hand Soaps • Shower Gels • Pet Shampoos • Light Duty Liquid Dish Detergent </td> </tr> </table>	<ul style="list-style-type: none"> • Bubble Baths • Hair Conditioners • Shampoos • Baby Products 	<ul style="list-style-type: none"> • Hand Soaps • Shower Gels • Pet Shampoos • Light Duty Liquid Dish Detergent 																								
<ul style="list-style-type: none"> • Bubble Baths • Hair Conditioners • Shampoos • Baby Products 	<ul style="list-style-type: none"> • Hand Soaps • Shower Gels • Pet Shampoos • Light Duty Liquid Dish Detergent 																										
Typical Properties	<table border="0" style="width: 100%;"> <tr> <td>Appearance at 25°C</td> <td>Clear liquid</td> </tr> <tr> <td>Solids, %</td> <td>36.5</td> </tr> <tr> <td>pH, 10% aqueous</td> <td>8</td> </tr> <tr> <td>Cloud Point, as is, °C (°F)</td> <td><-3 (<27)</td> </tr> <tr> <td>Flash Point, PMCC, °C (°F)</td> <td>>94 (>201)</td> </tr> <tr> <td>Actives, %</td> <td>30</td> </tr> <tr> <td>Sodium Chloride, %</td> <td>5.1</td> </tr> <tr> <td>Color, Gardner</td> <td>1.0</td> </tr> <tr> <td>Viscosity at 25°C, cps</td> <td>12.6</td> </tr> <tr> <td>Density, g/ml (lbs/U.S. gal)</td> <td>1.043 (8.76)</td> </tr> <tr> <td>Freeze Point, °C (°F)</td> <td><-3 (<27)</td> </tr> <tr> <td>RVOC, U.S. EPA, %</td> <td>0</td> </tr> <tr> <td>Preservative</td> <td>DMDM Hydantoin</td> </tr> </table>	Appearance at 25°C	Clear liquid	Solids, %	36.5	pH, 10% aqueous	8	Cloud Point, as is, °C (°F)	<-3 (<27)	Flash Point, PMCC, °C (°F)	>94 (>201)	Actives, %	30	Sodium Chloride, %	5.1	Color, Gardner	1.0	Viscosity at 25°C, cps	12.6	Density, g/ml (lbs/U.S. gal)	1.043 (8.76)	Freeze Point, °C (°F)	<-3 (<27)	RVOC, U.S. EPA, %	0	Preservative	DMDM Hydantoin
Appearance at 25°C	Clear liquid																										
Solids, %	36.5																										
pH, 10% aqueous	8																										
Cloud Point, as is, °C (°F)	<-3 (<27)																										
Flash Point, PMCC, °C (°F)	>94 (>201)																										
Actives, %	30																										
Sodium Chloride, %	5.1																										
Color, Gardner	1.0																										
Viscosity at 25°C, cps	12.6																										
Density, g/ml (lbs/U.S. gal)	1.043 (8.76)																										
Freeze Point, °C (°F)	<-3 (<27)																										
RVOC, U.S. EPA, %	0																										
Preservative	DMDM Hydantoin																										
Environmental Effects	Product is readily biodegradable. Additional information is available upon request.																										
Health Effects	AMPHOSOL LB is practically nontoxic orally (LD ₅₀ > 5000 mg/kg) and is expected to be moderately irritating to eyes and minimally to non-irritating to skin at 10% active.																										



Storage & Handling

Normal safety precautions (e.g., gloves and safety goggles) should be employed when handling AMPHOSOL LB. Contact with eyes, nose or prolonged contact with skin should be avoided. Wash thoroughly after handling AMPHOSOL LB. See SDS for more information.

Standard Packaging: AMPHOSOL LB is available in drums, and bulk quantities.

Non-Bulk Storage Recommendations: AMPHOSOL LB should be stored in closed containers and kept in a cool, dry place away from incompatible materials (see Section 10 of the SDS) at temperature between 40°F (4°C) and 110°F (43.3°C). If material is frozen it should be heated gently and stirred to ensure it is homogeneous prior to use.

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 safety practices should be used to control these exposures. See SDS for more information.

Clearances

The international inventories (country clearances) of AMPHOSOL LB can be found in Section 15 of the Safety Data Sheet (SDS). 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. If you have any further questions regarding inventories, please contact North America Technical Service at techserv@stepan.com.

Product Stewardship

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

Additional Safety Information

A Safety Data Sheet (SDS) is available upon request.



The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents or to violate any applicable laws. STEPAN COMPANY MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, EXPRESS OR IMPLIED, AND NO OTHER WARRANTY OR GUARANTY, EXPRESS OR IMPLIED, IS MADE, INCLUDING AS TO INFORMATION REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS OR ADEQUACY. Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party for any direct, indirect, special or consequential damages arising out of or in connection with the information provided herein, including in respect of its accuracy, completeness, adequacy, furnishing, or use, or reliance upon such information. The vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise to the fullest extent possible under the relevant law.

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**