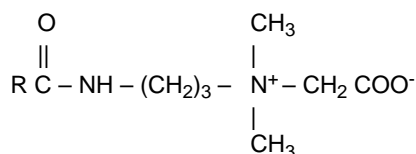


Product Bulletin

AMPHOSOL® CG-50

Product Name

Chemical Structure



R = coco

AMPHOSOL CG-50 is a high active amido type betaine derived from refined coconut oil.

CAS Registry No.

61789-40-0

INCI Name

Cocamidopropyl Betaine

Description

AMPHOSOL CG-50 is a high actives version of AMPHOSOL CG. It can be used in the same type of applications as the traditional AMPHOSOL CG while providing reduction in delivery freight and storage due to higher activity level.

Applications

Functional Properties

- Primary or Secondary Surfactant
- Foam Booster
- Viscosity Builder
- Humectant
- Antistatic Agent
- Compatible with anionics, nonionics and cationics

End Product Uses

- Bubble Baths
- Hair Conditioners
- Cream Rinses
- Shampoos
- Pet Shampoos
- Car Wash
- Hand Soaps
- Cleansing Creams & Lotions
- Shower Gels
- Baby Products
- Liquid Dishwash

Typical Properties

Appearance at 25 °C.....	Clear amber liquid
Solids, %	43.7
Actives, %	37.3
Sodium Chloride.....	6.1
pH, as is	6.1
Freeze Point, °C (°F).....	<-12 (<10)
Flash Point (PMCC), °C (°F)	>94 (>201)
Boiling Point, °C (°F)	100 (212)
Viscosity at 25 °C, cps.....	76
Density, g/ml (lbs/U.S. gal).....	1.07 (8.9)
RVOC, U.S. EPA, %.....	0
Preservative	Not required

Biodegradability

Product is biodegradable. Additional information is available upon request.

Toxicity

AMPHOSOL CG-50 is practically non-toxic orally (LD₅₀ = 5 g/kg) and causes minimal eye and mild skin irritation at 10% active.



Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling AMPHOSOL CG-50. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

It is recommended that AMPHOSOL CG-50 be stored in sealed containers and kept at temperatures between 40 °F (4 °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.

Bulk Storage Information: Tanks made of fiberglass are recommended. Storage tanks made of 316 stainless steel are susceptible to chloride-induced cracking over time. Centrifugal or positive displacement pumps gear pumps are recommended. Piping of 316 stainless steel is adequate; however Teflon or fiberglass piping is preferred. Recommended storage for bulk tanks is 50-110 °F (10-43 °C).

Standard Packaging: AMPHOSOL CG-50 is available in bulk and drums.

Clearances

All components of AMPHOSOL CG-50 are listed in the following countries; the registration number for the active ingredients is included in parentheses: Europe (EINECS 263-058-8), Canada (DSL 61789-40-0), Australia (AICS 61789-40-0), Philippines (PICCS 61789-40-0), Korea (ECL Serial No. KE-01243), and China (EICS Part 3).

AMPHOSOL CG-50 meets the U.S. EPA Safe Choice Program's surfactant screen and is listed on www.cleangredients.org (an on-line database for green formulators). For further information, visit www.cleangredients.org. Additional Stepan ingredient listing can be found at www.stepan.com.

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

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.



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. STEPAN COMPANY MAKES NO PRODUCT 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 accuracy, completeness, adequacy, furnishing, use, or reliance upon information provided herein. 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**