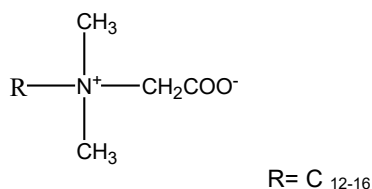


Product Name

AMPHOSOL® CDB-HP

Chemical Structure



CAS Registry Number

693-33-4 and 683-10-3

INCI Name

Cetyl Betaine

Applications

AMPHOSOL CDB-HP is a preservative-free mild surfactant derived from natural fatty methyl esters. It is a unique, secondary surfactant, designed to improve the viscosity response of sulfate-free* surfactant systems and traditional anionic systems. It is an enhanced amphoteric surfactant formulated for cold processing and easy handling. It can also be used as a mild primary surfactant, foam booster or static control agent. AMPHOSOL CDB-HP is compatible with anionic, nonionic and cationic surfactants.

Functional Properties:

- Secondary or Primary Surfactant
- Viscosity Builder
- Foam Booster
- Antistatic Agent
- Compatible with Anionics, Nonionics and Cationics

End Product Uses:

- | | |
|----------------|---------------------|
| • Bubble Baths | • Facial Cleansers |
| • Shampoos | • Shower Gels |
| • Baby Product | • Pet Shampoos |
| • Hand Soaps | • Hair Conditioners |
| • Cream Rinses | • Lotions |

Typical Properties

Appearance at 25°C	Clear liquid	Boiling Point, °C (°F)	98.5 (209.3)
pH	12.0	Pour Point (as is), °C (°F)	-5.8 (21.6)
Viscosity at 25°C, cps.....	50-300	Freeze Point, °C (°F).....	-8.5 (16.7)
Solids, % by Wt.	37	Total Actives, %	30
Flash Point (PMCC), °C (°F)	>94 (>201)	Color, Gardner	1
Sodium Chloride, %.....	6	Density, g/ml (lbs/U.S. gal). 1.026 (8.56)	
Critical Micelle Concentration, mg/L.....	20.4	RVOC, U.S. EPA, %	0
Cloud Point (Quick Cool) °C (°F).....	-0.2 (31.7)	Preservative	Not required



Environmental Effects

AMPHOSOL CDB-HP is biodegradable. Additional information available upon request.

Health Effects

AMPHOSOL CDB-HP is slightly toxic orally in rats (≥ 5000 mg/kg) and it is expected to be mildly to moderately irritating to eyes and not irritating to skin at $\leq 10\%$ solution, when tested at neutral pH.

Storage & Handling

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

Standard Packaging: AMPHOSOL CDB-HP is available in bulk, tote and drum quantities.

It is recommended that AMPHOSOL CDB-HP be stored in sealed containers and kept at temperatures between 60°F-110°F (15.5°C-43.3°C). Avoid overheating or freezing. If material is frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use.

Please Note: When stored in drums, AMPHOSOL CDB-HP may experience gelling at the top of the container. Stepan recommends the use of the entire drum contents in the processing of your final product. If this is not possible, mild heat and agitation is recommended 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 CDB-HP 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 is available upon request.



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