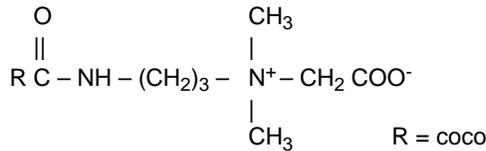


Product Name

AMPHOSOL[®] CA

Chemical Structure



Chemical Description

AMPHOSOL CA is a mild amphoteric surfactant derived from coco-methyl esters.

CAS Registry No.

61789-40-0

INCI Name

Cocamidopropyl Betaine

Applications

Functional Properties

- Primary or secondary surfactant
- Foam booster
- Compatible with anionics, nonionics and cationics
- Viscosity builder
- Antistatic Agent

End Product Uses

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

Typical Properties

Appearance at 25°C.....	Clear liquid	Actives, %	30
Solids, %	35	Sodium Chloride, %.....	5.2
pH, 10% aqueous	4.5 - 7.0	Color, APHA.....	250 max.
Cloud Point (as is), °C (°F).....	-5 (23)	Viscosity at 25°C, cps.....	16
Pour Point, °C (°F).....	-5 (23)	Density, g/ml (lbs/U.S. gal).....	1.043 (8.7)
Flash Point (PMCC), °C (°F).....	>94 (>201)	RVOC, U.S. EPA, %.....	0
Boiling Point, °C (°F).....	>100 (>212)	Freeze Point, °C (°F).....	-8 (18)
Preservative	DMDM Hydantoin		

Biodegradability

Product is biodegradable. Additional information is available upon request.

Toxicity

AMPHOSOL CA is slightly to practically non-toxic orally (LD₅₀ = 5 g/kg) and causes moderate 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 CA. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

It is recommended that AMPHOSOL CA 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.

Standard Packaging: AMPHOSOL CA is available in bulk and 55 gallon drums (net weight 450 lb/204 kg).

Clearances

All components of AMPHOSOL CA are listed in the following countries; the Inventory Registration Number of the active ingredient is included in parentheses: United States (TSCA 61789-40-0), Canada (DSL 61789-40-0), Europe (61789-40-0, 263-058-8), Korea (ECL 61789-40-0, KE-01243), Japan (ENCS 61789-40-0, 2-1290), Australia (AICS 61789-40-0), Philippines (PICCS 61789-40-0), China (IECSC 61789-40-0), New Zealand (NZIoC 61789-40-0).

AMPHOSOL[®], BIO-TERGE[®], and STEOL[®] are registered trademarks of Stepan Company.



Formulations

ECONOMY BUBBLE BATH (Salt-Free)

<u>Ingredients</u>	<u>Wt. % (as is)</u>	<u>Function</u>
BIO-TERGE® AS-40 CG	24.0	Primary Surfactant
AMPHOSOL CA	4.0	Viscosity Builder/Foam Booster
Hydroxyethylcellulose	0.4	Thickener
Citric Acid (50%)	q.s.	pH Adjuster
Fragrance, Dye, Preservative	q.s.	Additives
D.I. Water	q.s. to 100.0	Solvent, Carrier

Mixing Procedure:

Disperse Hydroxyethylcellulose in D.I. Water and heat to 42°C. Mix until completely dispersed. Add BIO-TERGE AS-40 and AMPHOSOL CA and blend until clear. Adjust pH to 6.5 - 7.5 with citric acid. Add fragrance, dye and preservative, if desired.

Physical Properties:

Appearance at 25°C..... clear liquid
pH (as is)..... 6.5-7.5

HIGH ACTIVE CLEAR GEL SHAMPOO

<u>Ingredients</u>	<u>Wt. % (as is)</u>	<u>Function</u>
STEOL® CS-130	75.0	Primary Surfactant
AMPHOSOL CA	6.6	Secondary Surfactant
Citric Acid (50%)	q.s.	pH Adjuster
Fragrance, Dye, Preservative	q.s.	Additives
Sodium Chloride	q.s.	Viscosity Adjuster
D.I. Water	q.s. to 100.0	Solvent, Carrier

Mixing Procedure:

To D.I. Water, add STEOL CS-130 and AMPHOSOL CA, mixing well after each addition. Adjust pH to 6.5 - 7.5 with citric acid. Add fragrance, dye and preservative, if desired. Adjust to desired viscosity with sodium chloride.

Physical Properties:

Appearance at 25°C..... clear gel
pH (as is)..... 6.5-7.5

Additional Safety Information

A Material Safety Data Sheet is available upon request.

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