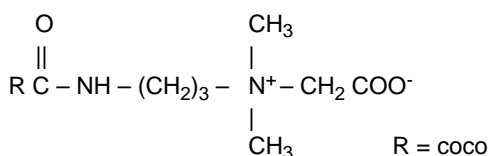


Product
Name

AMPHOSOL[®] CG

Chemical
Structure



AMPHOSOL CG is an amido type betaine derived from refined coconut oil.

CAS
Registry No.

61789-40-0

INCI Name

Cocamidopropyl Betaine

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
- Hand Soaps
- Cleansing Creams & Lotions
- Shower Gels
- Baby Products

Typical
Properties

Appearance at 25°C.....	Clear liquid	Actives, %	30
Solids, %	35	Sodium Chloride, %.....	5.0
pH, 10% aqueous	5-7	Color, Gardner	1.0
Cloud Point (as is), °C (°F).....	-3 (26)	Viscosity at 25°C, cps.....	13
Pour Point, °C (°F)	-7 (19)	Density, g/ml (lbs/U.S. gal).....	1.045 (8.7)
Flash Point (PMCC), °C (°F)	>94 (>201)	RVOC, U.S. EPA, %.....	0
Freeze Point, °C (°F).....	-10 (14)	Boiling Point, °C (°F)	>100 (>212)
Preservative	DMDM Hydantoin		

Biodegradability

Product is biodegradable. Additional information is available upon request.

Toxicity

AMPHOSOL CG 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. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

It is recommended that AMPHOSOL CG 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 with an Atlac 382 corrosion liner are recommended. Gear pumps and piping should be sodium chloride resistant steel. Recommended storage for bulk tanks is 70-120°F (21-49°C).

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

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



Clearances

All components of AMPHOSOL CG 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 is USDA authorized (as an ingredient in cleaning compounds).

Formulations

SHOWER GEL

<u>Ingredients</u>	<u>Wt. % (as is)</u>	<u>Function</u>
STEPANOL® AM-V	42.0	Primary Surfactant
AMPHOSOL CG	12.0	Secondary Surfactant
Fragrance, Dye, Preservative	q.s.	Additives
Citric Acid (50%)	q.s.	pH Adjuster
Ammonium Chloride	q.s.	Viscosity Adjuster
D.I. Water	q.s. to 100.0	Solvent, Carrier

Mixing Procedure:

Add STEPANOL AM-V and AMPHOSOL CG to D.I. Water and heat to 45°C (113°F), blend until clear and homogeneous. Cool. Add fragrance, dye and preservative, if desired. Adjust to desired viscosity with ammonium chloride. Adjust pH to 6.0-7.0 with citric acid.

Physical Properties:

Appearance at 25°C..... Clear gel
pH (as is)..... 6.0-7.0

MILD BABY SHAMPOO

<u>Ingredients</u>	<u>Wt. % (as is)</u>	<u>Function</u>
STEPAN-MILD® SL3	19.0	Primary Surfactant
STEOL® CS-330	17.5	Cosurfactant
AMPHOSOL CG	16.5	Cosurfactant/Foam Booster
Hallstar PEG 6000 DS (Hallstar)	2.0	Thickener
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:

Add the first three components to D.I. Water with mixing and heat to 50-60°C (122-140°F). Add STEPAN PEG 6000 DS and mix until all solids have melted. Cool to 35°C (95°F) and adjust pH to 6.0 - 7.0 with citric acid. Add fragrance, dye and preservative, if desired. Adjust to desired viscosity with sodium chloride.

Physical Properties:

Appearance at 25°C..... Clear liquid
pH (as is)..... 6.0-7.0

Additional
Safety
Information

A Material Safety Data Sheet is available upon request.

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