

Sulfate-Free Shampoo

Ingredient Guide

EMEA Region

Function	Ingredient Type	Recommended Products
Cleans dirt and oil from the hair.	Primary Anionic Surfactant	Naturally Derived: ALPHA-STEP® PC-48 Better Foamer: BIO-TERGE® AS-40 HASB Premium: LATHANOL® LAL COARSE/MB Performance Blends: STEPAN-MILD® LSB/MB, STEPAN-MILD PCL-BA Mild, Ready-to-Dilute Blend: STEPANBLEND® ASF/MB
Improves foam generation and stabilization. Improves viscosity building profile.	Secondary Amphoteric Surfactant	Conventional: AMPHOSOL® CG-UN Better Viscosity Build: AMPHOSOL DM/MB Premium: AMPHOSOL CDB-HP-E
Helps in the removal of grease and oil. Improves viscosity building and foam generation/stabilization.	Secondary Nonionic Surfactant	Best Performance: NINOL® CAA Cost-Effective: NINOL COMF-N
Helps to build viscosity in formulas that may or may not be difficult to thicken.	Thickener	Best Performance: NINOL CAA Mildest: AMPHOSOL CDB-HP-E Natural: STEPAN-MILD GCC/MB Natural and Liquid: STEPAN-MILD GCC-FL/MB
Helps to incorporate water-insoluble ingredients into a clear formula.	Solubilizer	Multi-functional: NINOL CAA
Provides a softness to the hair. Helps to improve wet and dry combability.	Conditioning Agent	Natural Silicone Alternative: STEPAN-MILD L3-G/MB Natural: STEPAN-MILD GCC/MB Natural and Liquid: STEPAN-MILD GCC-FL/MB
Other Ingredients		
Gives the final formula a pearlized and/or opaque, milky, lotion-like appearance.	Pearlizing/Opacifying Agent	Glycol monostearates, glycol distearates, copolymers
Helps control water hardness and decrease mineral build-up in the hair.	Chelant	Tetrasodium Glutamate Diacetate, Sodium Citrate, Tetrasodium EDTA (Ethylenediaminetetracetic acid)
Can provide improvement with hair strength, manageability and overall hair health.	Vitamins	Panthenol (vitamin B5), tocopheryl acetate (vitamin E), ascorbic acid
Can provide improvement in conditioning, shine, combability and strength. Can also reduce static/frizz.	Protein and Amino Acid Derivatives	Hydrolyzed wheat protein, quaternized proteins, amino acids
Helps prevent the growth of microbes and bacteria in the final formula.	Preservative	Benzoic acid, phenoxyethanol, methylchloroisothiazolinone, methylisothiazolinone
Dyes, fragrances, and other components meant to enhance the visual appeal and experience of the final formula.	Aesthetics	FD&C colorants, various fragrances, botanical and herbal extracts

Stepan Trade Name	INCI Name	Form	Actives, %	% Bio-based	NOI/NOC ¹
ALPHA-STEP PC-48	Sodium Methyl 2-Sulfolaurate (and) Disodium 2-Sulfolaurate	Liquid	38	94	0.95
AMPHOSOL CDB-HP-E	Cetyl Betaine	Liquid	30	78	0.92
AMPHOSOL CG-UN	Cocamidopropyl Betaine	Liquid	30	64	0.89
AMPHOSOL DM/MB	Coco Betaine	Liquid	30	76	0.91
BIO-TERGE AS-40 HASB	Sodium C14-16 Olefin Sulfonate	Liquid	39	0	0.59
LATHANOL LAL COARSE/MB	Sodium Lauryl Sulfoacetate	Powder	65 min.	86	0.81
NINOL CAA	Dimethyl Lauramide/Myristamide	Liquid	100	86	0.86
NINOL COMF-N	Cocamide MEA	Flake	100	86	0.86
STEPAN-MILD GCC/MB	Glyceryl Caprylate/Caprates	Paste	100	100	1.0
STEPAN-MILD GCC-FL/MB	Glyceryl Caprylate/Caprates (and) Glycerin (and) Propanediol	Viscous Liquid	62	100	1.0
STEPAN-MILD L3-G/MB	Lauryl Lactyl Lactate	Liquid	100	100	1.0
STEPAN-MILD LSB/MB	Sodium Lauryl Sulfoacetate (and) Disodium Laureth Sulfosuccinate	Liquid	25	64	0.89
STEPAN-MILD PCL-BA	Sodium Methyl 2-Sulfolaurate (and) Disodium 2-Sulfolaurate (and) Sodium Lauryl Sulfoacetate	Liquid	25	90	0.89
STEPANBLEND ASF/MB	Coco-Betaine (and) Sodium C14-16 Olefin Sulfonate (and) Decyl Glucoside (and) Dimethyl Lauramide/Myristamide	Liquid	39	54	0.81

¹Natural Origin Index/Content (NOI/NOC) Calculation according to ISO 16128. Stepan interprets the Natural Origin Index (NOI) under ISO 16128 to be calculated based on the biorenewable carbon approach allowed by the norm. We take water into account (NOI=1), additives and known impurities. Stepan assumes all raw materials and processes used to manufacture our products to be accepted by the norm.

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