



Sulfate-Free Shampoo (CS-21)

This sulfate-free formula produces a thick and creamy foam which is very mild. **SeraShine® EM 224C-E** is a microemulsion which allows conditioning in clear aqueous formulations. **Vida-Care PQ-10** offers light conditioning and aids deposition.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Water	To 100	-	Vehicle
Glycerin	1.00	Surfac G995V/Surfachem	Humectant
Polyquaternium-10	0.20	Vida-Care PQ-10/KCC Basildon	Conditioner/Silicone Deposition Aid
Cocamidopropyl Betaine	15.00	Surfac B4/Surfachem	Amphoteric Surfactant
Sodium Lauryl Sulfoacetate (and) Disodium Laureth Sulfosuccinate	7.50	Stepan Mild LSB/Surfachem (Stepan)	Anionic Surfactant
Sodium Cocoyl Sarcosinate	20.00	Crodasinic CS30/Croda	Anionic Surfactant
Glyceryl Caprylate/Caprates	3.00	Stepan Mild GCC/Surfachem (Stepan)	Foam Booster
Acrylates Copolymer	8.00	Carbopol Aqua SF-1 /Surfachem	Suspending Agent/Thickener
Sodium Hydroxide	1.20	Sodium Hydroxide Liquor 32%/Univar	pH Adjuster
Caprylyl Glycol (and) Caprylhydroxamic Acid (and) Glycerin	1.00	Spectrastat/Azelis (Inolex)	Preservative
Dimethiconol (and) TEA-Dodecylbenzenesulfonate (and) Laureth-23	3.00	SeraShine® EM 224C-E/KCC Beauty	Conditioning Agent
Parfum (Fragrance)	<i>q.s.</i>	-	Fragrance
Citric Acid	0.27	Surfac Citric Acid Mono BP/Surfachem	pH Adjuster

Typical Properties

Appearance:	Translucent, viscous liquid
Viscosity @ 25°C:	5000 - 9000cP (Brookfield RVT, Sp3, 10rpm)
pH @ 25°C:	5.5 - 6.5

Method

Add the water to the vessel.

Premix the glycerine and Vida-Care PQ-10 and add to the batch. Stir until thickened and clear.

Add the surfactants.

Add the Carbopol. Adjust the pH to 6.5 - 7.5 with sodium hydroxide.

Add the rest of the ingredients in order.

Check the pH and viscosity. Adjust with citric acid.

Please note that the above formulation is only intended as a guide. It is not a commercial formulation and has not been tested as such. The formulation should be evaluated and modified for your own requirements before use. Also suggestions of uses should not be taken as inducements to infringe any particular patent.

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