

Guide Formulation

Personal Care

Sulfate-Free Shampoo (PS-17)

This Sulfate-Free Shampoo produces a thick, creamy foam and is very mild. SeraShine® EM 121 offers conditioning for all hair types. The emulsion is also MIT and paraben-free.

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	Celquat SC230M/Azelis (Akzo Nobel)	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	Crodasinc CS30/Croda	Anionic Surfactant
Glyceryl Caprylate/Caprata	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
Methylisothiazolinone (and) Methylchlorisothiazolinone	0.07	Euxyl K120/Schulke	Preservative
Glycol Distearate (and) Laureth-4 (and) Cocamidopropyl Betaine	3.00	Tego Pearl N300/Surfachem (Evonik)	Pearliser
Dimethicone (and) C12-14 sec-Pareth-5 (and) C12-14 sec-Pareth-9	3.00	SeraShine® EM 121/KCC Beauty	Conditioning Agent
Parfum (Fragrance)	qs	-	Fragrance
Citric Acid	0.40	Surfac Citric Acid Mono BP/Surfachem	pH Adjuster
Propanediol	4.50	Zemea/IMCD (Dupont)	Viscosity Adjuster/Humectant

Typical Properties

Appearance:	Pearlised white, 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 Celquat and add to the batch. Stir until thickened and clear.

Add the surfactants.

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

Add the rest of the ingredients in order.

Check the pH and viscosity. Adjust with citric acid and propanediol.



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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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