Guide Formulation

Personal Care

Protecting Hair Conditioner (RC-14)

This creamy hair conditioner contains SeraShine® EM 223-E (Dimethiconol (and) TEA-Dodecylbenzenesulfonate), which provides all-round benefits for hair, including softness, shine and manageability. This 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
Hydroxyethylcellulose	0.50	Natrosol 250 HHR-PC/Ashland	Thickener
Stearamidopropyl Dimethylamine	1.00	Incromine SD/Croda	Conditioning Fat
Citric Acid	0.50	Surfac Citric Acid Monohydrate BP/Surfachem	pH Adjuster
Cetearyl Alcohol	5.50	Crodacol CS90/Croda	Bodifying Fat
Behentrimonium Chloride (and) Isopropyl Alcohol	0.50	Incroquat Behenyl TMC-85/Croda	Conditioning Fat
Dimethiconol (and) TEA-Dodecylbenezenesulfate	**2.00**	**SeraShine® EM 223-E/KCC Beauty**	**Conditioning Agent**
Parfum	0.70	CPL Aromas	Fragrance
Hydrolysed Algin	0.50	Phycosaccharide AP/ProTec Ingredia	Anti-Pollutant
Methylchloroisothiazolinone (and) Methylisothiazolinone (and) Benzyl Alcohol	0.07	Euxyl K100/Schülke	Preservative

Typical Properties

Appearance:	Opaque, white emulsion
Viscosity @ 25°C:	15000 – 30000cPs (Brookfield Helipath, T Bar C,10rpm)
pH @ 25°C:	3.0 – 4.0

Method

Add the water to the vessel and begin to heat.
Premix the glycerine and hydroxyethylcellulose, add to the water and stir until thickened. Continue to heat to 80 – 85°C. Add the Stearamidopropyl Dimethylamine, stirring until melted. Add the citric acid to neutralise.
In a separate vessel, heat the Cetearyl Alcohol and Behentrimonium Chloride until molten. When both phases reach 80 – 85°C, transfer the fats to the water phase. Homogenise for 5 minutes.
Cool to below 40°C and add the remaining ingredients in order.

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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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