

Guide Formulation

Personal Care

Opaque Conditioning Shampoo

Containing: BC 2278, Dimethiconol Microemulsion and BC 2211, Quaternary Silicone Microemulsion

In this 2 in 1 conditioning shampoo formulation the combination of BC 2278 and BC 2211 provides detangling benefits and leaves hair with a silky soft feel.

Raw Material	Weight %	Trade Name / Supplier
<u>Part 1</u>		
Water	17.0	-
Sodium Laureth Sulphate (28%)	35.0	Surfac LES27 / Surfachem
Cocamidopropylbetaine	10.0	Amphosol CG / Stepan UK
Glyceryl Stearate	2.5	Cufina GMS-V / Cognis
Cetearyl alcohol	3.0	Crodacol CS90 EP / Croda Chemicals
<u>Part 2</u>		
Acrylates Copolymer (30%)	8.0	Carbopol SF-1 / Noveon, Inc
Propylene Glycol	1.5	Propylene Glycol / Croda Chemicals
Panthenol	0.1	Panthenol / Ciba Speciality Chemicals
BC 2278 Dimethiconol Microemulsion	4.0	BC 2278/ Basildon Chemicals
BC 2211 Quaternary Silicone Microemulsion	3.0	BC 2211/ Basildon Chemicals
<u>Part 3</u>		
Water	14.65	-
Polyquaternium-10	0.25	Ucare Polymer JR-400 / Amerchol
<u>Part 4</u>		
Sodium Hydroxide (32%)	q.s	-
Sodium Chloride	1.0	-
Fragrance	q.s	-
Preservative	q.s	-

Method

- Combine ingredients of Part 1 and heat with mixing to 75°C.
- Mix for 10 minutes at this temperature then cool with mixing to < 35°C
- Add the ingredients of Part 2 in the order shown, mixing after each addition until the ingredient is fully dispersed.
- In a separate vessel, combine ingredients of Part 3 and mix until solution is clear and homogenous
- Add Part 3 to the main batch and mix.
- Adjusting pH to 6.5 with sodium hydroxide then and sodium chloride and mix until fully dissolved

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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