

Guide Formulation

Personal Care

Soft Sherbet UV Essence (SPF25) (MS_19)

This sunscreen formulation provides a soft airy wear for daily sun care. **SeraSense® SF MTM** gives improved skin wetting and a quick flash-off that leaves a dry, silky feel on the skin with no build up. **SeraSoft® SW 75** is a water-soluble silicone wax. This product provides a non-tacky moisturising film. **SeraSense® SF 5** gives a moisturised feel.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Phase A			
Aqua (Water)	To 100	-	Vehicle
Butylene Glycol	8.00	Various	Humectant
Glycerin	2.00	Various	Humectant
Niacinamide	2.00	Various	Whitening Agent
Disodium EDTA	0.02	Various	Chelating Agent
PEG-11 Methyl Ether Dimethicone	1.00	SeraSol® SC 85/KCC Beauty	Emulsifier
Bis-PEG-18 Methyl Ether Dimethyl Silane	1.00	SeraSoft® SW 75/KCC Beauty	Occlusive Skin Conditioning Agent
Phase B			
Methyl Trimethicone	8.00	SeraSense® SF MTM/KCC Beauty	Solvent/Emollient
Dimethicone	7.00	SeraSense® SF 5/KCC Beauty	Moisturising
Ethylhexyl Methoxycinnamate	7.00	Uvinul MC-80/BASF	UVB Absorber
Ethylhexyl Salicylate	4.50	Parsol® EHS/DSM	UVB Absorber
Hydrogenated Polyisobutene	2.00	PARLEAM/NOF	Skin Conditioning Agent
1,2-Hexanediol	2.00	Various	Preservative
Phase C			
Polyglyceryl-3 Methylglucose Distearate	2.00	TEGO® Care 450/Evonik	Emulsifier
Cetearyl Alcohol	1.50	Lanette O®/Cognis	Emulsifier
Sorbitan Olivatate	1.50	Olivem® 900/Hallstar	Emulsifier
Glyceryl Stearate (and) PEG-100 Stearate	1.00	Arlacel™ 165/Croda	Emulsifier
Parfum (Fragrance)	q.s.	-	Fragrance
Phase D			
Ammonium Acryloyldimethyltaurate/VP Copolymer	1.00	Aristoflex AVC/Clariant	Thickener

Typical Properties

Appearance:	White, viscous emulsion
Viscosity @ 25°C:	>45,000cP (Brookfield LVDV II, LV4, 6rpm)
pH @ 25°C:	5.5 - 6.5

Method

Mix the ingredients of Phase A until homogenous.

In a separate vessel, mix the ingredients of Phase B and C whilst heating to 75°C. Add Phase B+C to A with stirring. Slowly add Phase D with stirring.



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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.