



Long-Lasting Hand Cream (HC-5)

This light, non-greasy formulation has a silky soft, non-tacky skin feel thanks for **SeraSense® GBA 81**. This gum blend contains high viscosity dimethicone combined with C13-15 Alkane, which is a cyclomethicone alternative with similar spreadability. **Vida-Care FD2020+** thickens and stabilises the formulation and exhibits shear thinning, improving spreadability upon application.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Phase A			
Water	To 100	-	Vehicle
Disodium EDTA	0.10	Disodium EDTA	Chelating Agent
Glycerin	5.00	Surfac G995V/Surfachem	Humectant
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.19	Vida-Care FD2020+/KCC Basildon	Thickener
Phase B			
Stearic Acid	4.00	Edenor ST1 MY BD/Cognis	Bodifying Fat
Cetyl Alcohol	1.00	Crodacol C90/Croda	Bodifying Fat
Glyceryl Stearate	1.00	Cutina GMS SE/Cognis	Emulsifier
Butyrospermum Parkii (Shea) Butter	1.00	Statfold Shea Butter Refined/Croda	Emollient
Phase C			
Triethanolamine	<i>q.s.</i>	TEA 99%/Various	pH Adjuster
C13-15 Alkane (and) Dimethicone	2.00	SeraSense® GBA 81/KCC Beauty	Skin Feel
Tocopherol	0.10	dl- α -Tocopherol/Adina (DSM)	Antioxidant
Parfum	0.05	CPL Aromas	Fragrance
Phenoxyethanol (and) Caprylyl Glycol (and) Chlorphenesin	0.60	Neopres COS/Adina	Preservative

Typical Properties

Appearance:	Thick, white emulsion
Viscosity @ 25°C:	10,000+ cP (Brookfield Helipath, T bar C, 10 rpm)
pH @ 25°C:	6.0 - 7.0

Method

Add Phase A to the main vessel, sprinkling Vida-Care FD2020 slowly into a vortex and allowing to swell. May require homogenising. Heat to 70-75°C.

Heat Phase B in a separate vessel to 70-75°C.

Once up to temperature, add Phase B to A and homogenise until white and smooth.

Cool with stirring to below 40°C.

Add the TEA stepwise to achieve pH.

Add remaining ingredients, mixing well between additions.

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.