



Laponite® XLG "Emulsifier-free" emulsion base moisturising cream with CORN PO4 PH"B"

"Formulated and developed by Rockwood Additives Limited"

Ingredients	INCI-Name	%w/w	Supplier
Aqueous Phase 1			
aqua	aqua	37,75	
Hydrolite-5	pentylene glycol	5,00	Dragoco Gerberding & Co. AG
CORN PO4 PH "B"	distarch phosphate	2,00	AGRANA
Inutec SP-1	inulin lauryl carbamate	0,70	Orafti Non Food
Aqueous Phase 2			
Aqua	aqua	29,30	
Laponite XLG	sodium magnesium silicate	2,00	Rockwood Additives Limited
Dermosoft 1388	aqua, glycerin, levulinic acid, sodium hydroxide, p-anisic acid	0,40	Dr Straetmans
Oil Phase			
Cetiol CC	dicaprylyl carbonate	4,50	Cognis
Phytosqualan	squalane	3,00	Sophim
Prisorine ISIS 2039	isostearyl isostearate	1,80	Uniqema
Arlacel 80	sorbitan oleate	0,80	Uniqema



Pre-mix 1

Aqua	aqua	5,00	
Betafin BP20	betaine	2,00	Danisco Finnfeeds

Pre-mix 2

Aqua	aqua	3,88	
calcium lactate	calcium lactate	0,12	PURAC Biochem bv
Purac Hipure 90	lactic acid, aqua	1,30	PURAC Biochem bv

sodium hydroxide solution, 18%	aqua, sodium hydroxide	*0,25 (see note)	
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Parfum, allergen-free	parfum	0,20	Gova
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PROCEDURE

1. Aqueous Phase 1: Pre-mix water and pentylene glycol; disperse other ingredients of Pre-mix 1 in sequence, using a rotor-stator mixer, such as a Silverson. Then mix in a planetary mixer for 30 minutes.
2. Aqueous Phase 2: Add Laponite to water. Use high velocity blade for 10-15 seconds to wet the Laponite. Then mix at lower speed for 30 minutes, Add Phase 2 into Phase 1 and continue mixing for a further 30 minutes.
3. Add the Dermosoft with stirring and mix for a further 15 minutes to produce a smooth homogenous gel.
4. Combine Oil Phase ingredients in order shown with stirring to produce a transparent, low viscosity liquid. Add the oil phase to the aqueous phase without stirring. Homogenise on a Silverson mixer for 20 – 30 seconds then agitate the formulation using a planetary mixer. Maintain ambient temperature throughout this procedure.
5. Add Pre-mix 1, Pre-mix 2 and lactic acid in sequence to the emulsion with stirring on a planetary mixer until the formulation is smooth, initially, pH will be -4.
6. Make final pH adjustment to -4,8. "Note: Actual "level of sodium hydroxide to be used is determined by experiment in order to achieve the target equilibrium pH -5,5.
7. Add parfum to cooled formulation. Stir for 30 minutes.

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