

Aqua Haven Moisturizer (SPF 30 expected)
N19847-013

Description

Welcome to Nouryon's Skincare Oasis, powered and protected by Aqua Haven.

Aqua Haven Moisturizer (SPF 30 expected) is engineered to defend your skin from harsh UV rays while maintaining a soft, dew kissed complexion. Featuring Parsol Shield, a newly US-launched UV filter, this luxurious moisturizer leaves your skin supple & silky, with a luxe velvety dry down and zero white cast.

Aqua Haven features Structure® Solanace starch, Structure® XL starch, and Cekol® 150 cellulose gum which create a lightweight, smooth & cushiony emulsion that melts into the skin; Hydrovance® moisturizing agent at 5% to replenish the skin's hydration levels without adding tack to the formulation; DRY-FLO® Elite LL starch to impart a smooth, velvety dry-down; and DERMACRYL® AQF polymer to create an impenetrable UV shield, ensuring your skin stays radiant & refreshed all day long

Formula

Trade Name	INCI Name	%w/w	Supplier
Phase A			
Deionized Water	Aqua (Water)	56.240	Local
STRUCTURE® SOLANACE starch	Potato Starch Modified	1.000	Nouryon
STRUCTURE® XL starch	Hydroxypropyl Starch Phosphate	1.000	Nouryon
Cekol® 150 cellulose gum	Cellulose gum	0.250	Nouryon
Propylene Glycol	Propylene Glycol	2.500	Making Cosmetics
Dissolvine® NA2-S chelate	Disodium EDTA	0.060	Nouryon
Phase B			
Myrj S100	PEG-100 Stearate	2.000	Croda
Protachem GMS-450	Glyceryl Stearate	2.000	Protameen Chemicals Inc
PARSOL Shield	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.000	DSM-Firmenich
Parsol EHS	Ethylhexyl Salicylate	3.000	DSM-Firmenich
Parsol HMS	Homosalate	5.000	DSM-Firmenich
Jeescreen A	Avobenzone	3.000	Jeen
Jeechem NDA-CC	C13-14 Alkane	1.000	Jeen
PELEMOL GTO	Triethylhexanoin	1.000	Phoenix Chemical, Inc.
Finsolv-TN	C12-15 Alkyl Benzoate	4.500	Innospec Active Chemicals
Cetiol® CC	Dicaprylyl Carbonate	1.500	BASF
Lanette® O	Cetearyl Alcohol	1.000	BASF
Phase C			
Vitamin E Acetate	Tocopherol Acetate	0.200	BASF

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Hydrovance® moisturizing agent (50% active)	Hydroxyethyl Urea	5.000	Nouryon
DRY-FLO® Elite LL starch	Aluminum Starch Octenylsuccinate (and) Lauroyl Lysine	0.800	Nouryon
DERMACRYL® AQF polymer (45% active)	Acrylates Copolymer	4.450	Nouryon
Citroflex®-2	Triethyl Citrate	0.500	Vertellus Performance Materials Inc.
Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	1.000	Ashland
Total:		100.000	

Procedure

Phase A: With a propeller blade and overhead mixing, combine the Dissolvine chelate with the water and allow to combine. Prepare the slurry of Cekol 150 and propylene glycol, then set aside to allow to hydrate. Begin heating the batch to 80C; while the water and chelate are mixing, add Structure XL, then Structure Solanace. Once the beaker has reached at least 65C, add the Cekol slurry and allow to finish heating to 80C

Phase B: In a separate beaker, combine the emulsifiers, solvents/oils, and UV filters. Heat this mixture to 80C as well; the mixture should appear as a clear, vibrant yellow solution once fully solubilized. Combine with stirring until all emulsifiers are melted & follow with homogenization (1500-2000 rpm) for a minimum of 1 minute to ensure all filters are solubilized & dispersed.

Once both phases have reached 80C, add Phase B to Phase A under homogenization (2500-3500 rpm) for at least 5 minutes. Maintain heat during this period (~75-80C). Use a spatula to sweep the sides of the vessel to ensure all of the emulsion is being properly dispersed.

After homogenizing, bring the emulsion back to the overhead mixer and switch the attachment to an anchor blade. Mix at a moderate speed (~150-200 rpm) and add Dry-Flo Elite LL to the mixture around 55C. Allow the emulsion to begin cooling to 45C; add Vitamin E, Hydrovance, and the triethyl citrate all under 50C and allow to combine with moderate mixing.

To add Dermacryl AQF to the emulsion, re-homogenize the emulsion at 45C anywhere from 1000-2000 rpm. Homogenize for no more than 5 minutes at temp, then bring the vessel back to the overhead and allow to cool completely. Add the preservative under 40C with anchor mixing, then qs the water lost during processing back to the main vessel. Adjust pH between 5.00-6.00 once fully cooled.

Properties

Appearance	White to Off-White emulsion	
Viscosity	3500-4500 centipoise	Speed: 10 rpm, Spindle: RV03 , Temperature: 25 °C
pH	5.0-6.0	Temperature: 25 celsius

Packaging

Packaging: 1oz Airless Pump

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