



PERFORMANCE INSPIRED INGENUITY

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## **Soft By Nature**

### Hand Lotion

#### Description:

Soft By Nature is a moisturizing lotion largely comprised of natural ingredients, offering a sustainable and pleasing way to protect the skin. 10 out of the 14 featured ingredients are either 100% naturally derived, or contain a high percentage of biobased carbon content. Silsurf® Sustain Di-1010 is an innovative emulsifier that differs from traditional PEG-modified surfactants, as the polyether component is sourced from biobased plants sources, rather than traditional petroleum feedstocks. Silsurf® Sustain Di-1010 performs similarly to standard PEG-10 Dimethicones, but excels at providing a more sustainable option with a biobased carbon content in excess of 66%! Silwax® D02 is an alkyl dimethicone that provides enhanced spreadability and a sensorial similar to cyclomethicone. The inclusion of water-soluble Silwax® WS enhances skin conditioning and imparts additional soft elegance. Soft By Nature is exactly that, inherent moisturization and softness from the gifts that nature provides!

#### Ingredients:

Phase	Ingredient (Supplier)	INCI Name	Weight (%)
A	D.I. Water	Aqua	69.1
	Glycerin	Glycerin	3.0
	Zemea (DuPont)	1,3 Propanediol	3.0
	<b>Silwax WS (Siltech)</b>	<b>PEG-8 Dimethicone</b>	1.0
	<b>Silsurf Sustain Di-1010 (Siltech)</b>	<b>PEG-10 Dimethicone</b>	4.5
	Sepimax Zen (Seppic)	Polyacrylate Crosspolymer-6	0.7
B	Shea Butter (Lotion crafter)	Butyrospermum Parkii	4.0
	Sweet Almond Oil (Everland)	Prunus Amygdalus Dulcis Oil	4.0
	Olive Oil (Aurora)	Olea europaea Fruit Oil	4.0
	<b>Silwax D02 (Siltech)</b>	<b>Ethyl Methicone</b>	1.0
	Caprylic/Capric trygliceride	C8/C10 Triglyceride	4.3
C	Euxyl PE 9010 (Schulke)	Phenoxyethanol (and) Ethylhexylglycerin	1.0
	Vitamin E USP (Jeen International)	DL-Alpha Tocopheryl Acetate	0.1
	Lavander Essential Oil	Lavandula Angustifolia Flower Oil	0.3
Total			100.00



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Procedure:

- 1) Mix water, glycerin, Zemea and Silwax WS in Phase A until completely uniform.
- 2) Add Sepimax Zen polymer under mixing until dissolved.
- 3) Add emulsifier Silsurf Sustain Di-1010 under mixing until completely dissolved.
- 4) Heat water phase up to 75°C - 80°C.
- 5) Mix all ingredients in Phase B and heat up to 75°C - 80°C and mix until homogeneous.
- 6) When both phases reach the same temperature, pour Phase B into Phase A under a mixing rate of 1,300 rpm.
- 7) Once combined, continue mixing and increase rate up to 2,000 rpm for at least 2 minutes.
- 8) Allow mixture to cool to 25°C-30°C. Add Phase C under mixing.

Product formulations are included as illustrative examples. Siltech Corporation makes no representation or warranty of any kind with regard to any such formulations, including, without limitation, concerning the efficacy or safety of any product manufactured using such formulations.