



Personal Care Formulary



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Sunflower Rejuvenating Body Lotion

This ethoxylate-free, medium viscosity body lotion features Sunflower Oil and Sunflower-derived ingredients, including multifunctional PEL-SIL SFD, which delivers a silky feel on application, moisturization, plus substantive skin protection. PEL-EST OVG hydrates and moisturizes while stabilizing the emulsion.

#	INCI Name	Trade name	Supplier	Function	%
1-A	Water			Solvent	65.5
2-A	Glycerin	Glycerin	Avatar Corporation	Humectant	10.
3-A	Xanthan Gum	Keltrol CG-SFT	CPKelco	Thickener	0.4
4-B	Helianthus Annuus (Sunflower) Oil	Sunflower Oil	Amrita Aromatherapy	Emollient	5.0
5-B	Dimethicone PG-Sunflowerseedate	PEL-SIL SFD	Elé Corporation	Emollient	10.0
6-B	Glyceryl Olivatate	PEL-EST OVG	Elé Corporation	Skin refatting / Emulsion Stabilizer	2.0
7-B	Hydrogenated Sunflower Seed Oil Polyglyceryl-3 Esters (and) Hydrogenated Sunflower Seed Oil Glyceryl Esters (and) Cetearyl Alcohol (and) Sodium Stearoyl Lactylate	Emulsun®	Floritech	Emulsifier / Thickener	6.0
8	Citric Acid	Citric Acid	Kraft Chemical	pH adjuster	q.s. pH 5.5-6.0 (at least 0.025%)
9	Phenoxyethanol (and) Ethylhexylglycerin	Sharomix EG 14	Coast Southwest	Preservative	1.10

Procedure:

- Water phase (A): Add water to vessel. Premix Glycerin with Xanthan Gum and add to water; mix slowly until fully hydrated. Heat to 75 – 80°C.
- Oil phase (B): Combine ingredients 4 –7 and heat to 75 – 80°C with good mixing.
- Slowly add oil phase (B) into water phase (A). Mix for 10 - 15 minutes at 75 – 80°C, then begin cooling and slow mixing as temperature declines.
- At 40°C, add citric acid to pH 5.5 – 6.0. At 35°C or below, add preservative.

Results:

Appearance: opaque, white emulsion
pH: 5.5 – 6.0
Viscosity @25°C (after 48h): 125,000 – 150,000 cps (typical value: 138,600 cps)
Stability, 8 weeks @45°C: pass

Observatio: The emulsion will thicken over the first 24 – 48 hours, then stabilizes.
MS-M-035124
09M-SJ

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