

EU Body Lotion SPF50+ with DERMACRYL® E & TAPIOCA PURE

14758-89

Description

EU Body Lotion SPF50+ with DERMACRYL® E & TAPIOCA PURE is part of the Suncare Starch Kit.

This formula features DERMACRYL® E (45% active) polymer provides effective and durable film formation, enabling the formulation of long-lasting, high SPF systems. Easy-to use and cost effective, DERMACRYL E Polymer helps to create a wide range of products that provide excellent skin feel on application and dry-down and appeal to consumers seeking the best in sun protection.

This formula features TAPIOCA PURE starch is recommended for use in the powder form in body powders, with or in place of talc, in pressed powders, in fragranced balms, in aftershave and after bath products. The TAPIOCA PURE starch leaves a sensory perception of powder deposition with no visible whitening on skin and imparts a smooth, soft feel.

This formula contains as well AMAZE™ XT polymer is a naturally derived, multifunctional polymer. Easy to process even in cold water and enable the creation a crystal clear gel. It has the ability to stabilize emulsion too.

This formulation is sprayable.

Formula

Trade Name	INCI Name	% w/w	Supplier
Phase A			
Deionized Water	Water (Aqua)	52.55%	Local
Dissolvine® GL-47-S chelate (47% active)	Tetrasodium Glutamate Diacetate	0.20%	AkzoNobel
Pemulen™ TR-2 polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.10%	Lubrizol Advanced Materials, Inc.
Glycerin	Glycerin	5.00%	Ashland Chemical
AMAZE™ XT polymer	Dehydroxanthan Gum	0.15%	AkzoNobel
Phase B			
Neo Heliopan® HMS	Homosalate	6.00%	Symrise
Neo Heliopan® 357	Butyl Methoxydibenzoylmethane	5.00%	Symrise
Neo Heliopan® OS	Ethylhexyl Salicylate	5.00%	Symrise
Neo Heliopan, Type Hydro	Phenylbenzimidazole Sulfonic Acid	3.00%	H & R Florasynth
Tegosoft® TN	C12-15 Alkyl Benzoate	5.00%	Evonik Industries
Certified Organic Carnauba Wax	Copernicia Cerifera (Carnauba) Wax	0.50%	Strahl & Pitsch
AMISOFT HS-11P	Sodium Stearoyl Glutamate	0.20%	Ajinomoto Co
Akosoft 36	Hydrogenated Polyisobutene	0.50%	AAK AarhusKarlshamn
Phase C			

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Trade Name	INCI Name	% w/w	Supplier
Sodium Hydroxide 25% Solution	Sodium Hydroxide (and) Water	0.60%	Ricca Chemical Company
Tinosorb® S Lite Aqua	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (and) Acrylates/C12-22 Alkyl Methacrylate Copolymer	9.00%	BASF Care Creations
DERMACRYL® E (45% active) polymer	Styrene/Acrylates Copolymer	2.20%	AkzoNobel
Phase D			
TAPIOCA PURE starch	Tapioca Starch	4.00%	AkzoNobel
Microcare® PEHG	Phenoxyethanol (and) Ethylhexylglycerin	1.00%	Thor
Total:		100.00%	

Procedure

1. Phase A: Add Water, Dissolvine® GL-47-S chelate (47% active) to the batch. Sprinkle Pemulen into the vortex and mix until the polymer is hydrated. Mix with a propeller stirrer.
2. Add Glycerin, AMAZE™ XT polymer to the main batch.
3. Phase A: Start heating the batch at 80°C.
4. Phase B: In a separate beaker, melt all the ingredients of phase B at 80°C.
5. When both phase are ready, add Phase B to Phase A under homogenization with Silverson or equivalent for 5-10min.
6. Back to the propeller stirrer, add the solution of NaOH. Mix well then add Tinosorb® S Lite Aqua. Then add DERMACRYL® E (45% active) polymer.
7. Cool down the batch. When below 40°C add TAPIOCA PURE starch then the preservative. Mix well then drop the batch.

Properties

Appearance	Low viscous white emulsion
pH	6.5<pH<7.5
Brookfield Viscosity	Min = 6000 cPs Max = 10000 cPs Method Parameters = Brookfield RVT, Spindle C, Speed 10, 1 minute, 25°C

Packaging

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