

EU Body Lotion SPF50+ with STRUCTURE® XL 14758-82.B

Description

EU Body Lotion SPF50+ with STRUCTURE® XL is part of the Suncare Starch Kit.

This formula features STRUCTURE® XL starch that thickens and stabilize the emulsion while leaving excellent, long lasting after feel. The ease of use and immediate dispersability in cold water make it ideal for use in continuous manufacturing processes.

EU Body Lotion SPF50+ (Base) contains 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 now a thick cream.

Formula

Trade Name	INCI Name	% w/w	Supplier
Phase A			
Deionized Water	Water (Aqua)	55.75%	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
STRUCTURE® XL starch	Hydroxypropyl Starch Phosphate	3.00%	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			
Sodium Hydroxide 25% Solution	Sodium Hydroxide (and) Water	0.60%	Ricca Chemical Company

Created: 2018-04-10 14:32:44 GMT Modified: 2018-04-11 07:38:05 GMT

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Trade Name	INCI Name	% w/w	Supplier
Tinosorb® S Lite Aqua	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (and) Acrylates/C12-22 Alkyl Methacrylate Copolymer	9.00%	BASF Care Creations
Phase D			
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. Then add STRUCTURE® XL starch
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.
7. Cool down the batch. When below 30°C add Phase D. Mix well then drop the batch.

Properties

Appearance	Low viscous white emulsion
pH	6.5<pH<7.5
Brookfield Viscosity	Min = 30000 cPs Max = 50000 cPs Method Parameters = Brookfield RVDV-II+, Spindle 6, Speed 10 rpm, 1 minute, 25°C

Packaging

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Europe: Stenungsund, Sweden T: +46 303 85000, F: +46 303 771973, e: personalcare.europe@akzonobel.com
Americas: Chicago, Illinois, US, T: +1 800 906-9977, F: +1 908-707-3664, e: personalcare.usa@akzonobel.com
South America: Itupeva, SP, Brazil, T: +55-11-4591-8870, F: +55-11-4591-8804, e: personalcare.southamerica@akzonobel.com
Asia/Pacific: Shanghai, P.R. China, T: +86-21-2220-5000, F: +86-21-2220-5558, e: personalcare.china@akzonobel.com
www.akzonobel.com/PersonalCare