

Principal/Trade Name, INCI Weight %

Phase A

Purified Water 91.025%

Versene NA2 Crystals 0.05%
Disodium EDTA



VIVASTAR® CS 302 SV 1.50%
Sodium Carboxymethyl Starch



AMISOFT® HS-IIP 0.30%
Sodium Stearoyl Glutamate

Phase B



ELDEW® APS-307 0.20%
Phytosteryl/Decyltetradecyl Myristoyl Methyl Beta-Alaninate



VGB4 (Soya Wax) 1.50%
Hydrogenated Soyabean Oil

Phase C



Mirasil® C-DMB Silicone 0.50%
Cyclopentasiloxane, Dimethicone



Mirasil® PTM Silicone 1.00%
Phenyl Trimethicone



FD&C Blue #1 (0.1 % solution) 0.025%
Blue 1

Phase D

Geogard ECT 0.90%
Benzyl Alcohol, Salicylic Acid, Glycerin, Sorbic Acid



Zemea® Propanediol 3.00%
Propanediol

Product Properties:

Appearance: Light blue, smooth emulsion

pH: 4.80-5.30

Viscosity: 10,000-20,000 (Brookfield, RVT,
spindle 6@10 rpm)

Stability: passed 50C (1 week), FT (5 cycles)

Procedure:

Phase A: Load the main tank with cold water, add Versene Na2 Crystals and mix to dissolve.

Sprinkle Vivastar® CS 302 SV and mix at moderate speed for 30 min or until the batch is clear and uniform (free of lumps). Once the batch starts to thicken, adjust the mixing speed to avoid air entrapment.

Heat to 75-80 C while mixing. At 65-70 C, add AMISOFT® HS IIP and continue heating.

Phase B: Load all ingredients in a secondary vessel and heat to 75-80C. Add phase B into phase A slowly, mixing well for a homogeneous emulsion. Start cooling to RT .

Phase C: When the temperature of main batch reaches 60-65C, add Mirasil® C-DMB Silicone , then Mirasil® PTM Silicone , mixing well after each addition. Add FD&C Blue #1 and mix for an uniform dispersion.

Phase D: Premix Geogard ECT and Zemea® Propanediol until the premix is clear, heating to 60-65C.

Add slowly the premix D into the main batch . Mix well to incorporate and continue cooling to RT.

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VIVASTAR® CS 302 SV acts as a thickener. It is derived from corn. It is readily biodegradable and reduces tackiness, greasiness and stickiness. Provides silky-soft effect, matt effect and easier distribution on skin. It shows good compatibility with surfactants and excellent with electrolytes and alcohol. Used in sun care products, hair care products, decorative make-up, toiletries, skin care products and antiperspirant products.

AJINOMOTO

AMISOFT® HS-11 P is an anionic surfactant produced from L-Glutamic acid and plant derived palm fatty acid. It acts as a very mild surfactant leaving the skin feel soft and moisturized. This material is extremely hypoallergenic and well suited as an emulsifier. The pH is similar to the one of the skin.

AJINOMOTO

ELDEW® APS-307 is a light waxy emollient derived from β -Alanine and Phytosterol. It has an excellent moisturizing skin feel without stickiness and it has significant water holding capacity.



VGB4 (Soya wax) not only make skin care products and make-up products have the ideal texture and suitable viscosity, as well as excellent moisturizing effect, protect the skin and promote regeneration.



Mirasil® C-DMB Silicone is a solution of ultra-high viscosity polydimethylsiloxane at 15% in cyclopentasiloxane. It provides a smooth dry feel to skin. Its substantivity and water proofing effects are most useful for skin care and sun care formulations. Mirasil® C-DMB Silicone's volatile cyclopentasiloxane enhances wet combing while the non volatile dimethicone gum provides dry hair with conditioning, softening, and shine. It is compatible with materials traditionally used in personal care formulations.



Mirasil® PTM Silicone is a polymethylphenylsiloxane providing an easy-to-spread emolliency, non-greasy feel, and allowing natural skin transpiration through soft transparent film. Mirasil® PTM Silicone is typically used as a hair gloss agent, it imparts gloss, softness and better manageability to hair. It reduces tackiness in skin care applications and imparts water-resistant properties to sun care formulations. It has an excellent solubility in alcohol.



Zemea® propanediol is a natural, skin-friendly, preservative-boosting alternative to petroleum-based glycols for formulators who desire versatile and innovative cosmetic ingredients. With its skin-friendly performance, including no irritation, enhanced moisturization and excellent aesthetics, Zemea® propanediol is ideal for skin care, hair care, deodorants, fragrances, and other cosmetic and personal care products. It can be used as a humectant, preservative booster, emollient, natural solvent, viscosity enhancer, hand-feel modifier and for botanical extraction and dilution. It can also be used as a component in various types of ingredients including a carrier for actives, botanical extracts, or fragrances, an ingredient in natural preservative systems, and for developing natural esters and ethers.