

Principal/Trade Name, INCI


Weight %

Phase A

Purified Water 82.05%

Versene NA2 Crystals 0.05%
Disodium EDTA

Phase B


 **Zemea® Propanediol** 4.00%
Propanediol

 **GENU® pHresh DF Pectin** 1.00%
Pectin

 **GENUVISCO® CG-131 Carrageenan** 0.60%
Chondrus Crispus (Carrageenan)

Phase C


 **L-Arginine** 0.10%
Arginine

 **AMISOFT® HS-11P** 1.50%
Sodium Stearoyl Glutamate


Phase D

 **ETIOLIFTINE®** 0.10%
Sinapylacetate Hydroxyphenethylamide

 **ELDEW® APS-307** 1.00%
Phytosteryl/Decyltetradecyl Myristoyl Methyl Beta-Alaninate

 **VGB 5ST (Sunflower Wax)** 2.00%
Hydrogenated Sunflower Seed Oil

 **VGB 22 (High Erucic Rapeseed Wax)** 3.00%
Hydrogenated Rapeseed Oil

 **Mirasil® D-DML Silicone** 2.00%
Dimethicone, Dimethiconol

Phase E

 **AJIDEW® NL-50** 0.30%
Sodium PCA, Water

Spectrastat® OEL 2.00%
Propanediol , Ethylhexylglycerin ,Caprylyl Glycol, Caprylhydroxamic Acid

Product Properties:

Appearance: Smooth, light emulsion

pH: 5.0-6.0

Viscosity: 3000-6000(Brookfield, RVT, spindle 4@20 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.

Phase B: In a secondary vessel premix Zemea® Propanediol , GENU®pHresh DF Pectin and GENUVISCO® CG-131 Carrageenan until the slurry is uniform and easy flowing. Add it into the vortex of phase A , mixing at high speed. Mix phase A and B for 30 min or until the batch is uniform, free of lumps.

Phase C: Add slowly L-Arginine and mix well to incorporate. Start heating to 80-85C while mixing. At 60C, add AMISOFT®HS-11P and mix at moderate speed .

Phase D: Add all ingredients in a secondary vessel and heat to 80-85C while mixing . At 80-85C, add Phase D into the main batch. Mix for one minute, then homogenize .

Start cooling to RT.

Phase E: At 50-55C, add AJIDEW® NL-50 and mix well.

At 30-35C, add slowly Spectrastat® OEL and mix well. Homogenize for one min at 6000 rpm.

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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.



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GENU® pHresh DF Pectin is a blend of high ester and low ester pectin extracted from citrus peel. This product has a buffer capacity in aqueous systems and functions as a no sugar or other inert dilution agent used for standardization. It is typically used in skin care formulations such as lotion, creams, deodorants, and shaving lotions.



A HUBER COMPANY

GENUVISCO® CG-131 Carrageenan is an Iota carrageenan, typically used in gelled and semi-liquid systems. This product is intended for cosmetic and personal care applications. Meeting the NF purity specifications, it is also suited for the Pharmaceutical Industry. Iota carrageenan forms elastic gels and thixotropic fluids in the presence of calcium ions.

AJINOMOTO

L-Arginine has excellent skin conditioning and moisturizing properties. It acts as an anchor for the uptake of PCA and various other amino acids. It also acts as a neutralizer. It has numerous applications in skin care products.

AJINOMOTO

AMISOFT® HS-IIP 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.

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ETIOLIFTINE® is a skin longevity active. This preventive and curative anti-aging compound is capable of significantly reducing progerin production and acting on all the signs of restoring dermal matrix through collagen and elastin synthesis. It is also a very powerful antioxidant, 5 times more efficient than Vitamin E. This active can be included in all face care formulas such as anti-wrinkle cream, lifting firming serums, and mature skin care.

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.



VGB 5ST (Sunflower Wax) is a vegetable wax that helps to thicken the formulation, providing excellent emolliency and skin conditioning. This product is recommended for creams, lotions, sunscreens, hair conditioners, shampoos, lipsticks, and many other products.



VGB 22 (High Erucic Rapeseed Wax) is a vegetable wax that provides hydrating function and delivers protecting properties to the skin. It is recommended for creams, lotions, sunscreens, hair conditioners, shampoos, lipsticks, and many other products.

AJINOMOTO

AJIDEW®NL 50 is a natural humectant derived from L-Glutamic acid. Known to be abundant in human skin as a component of NMF (Natural Moisturizing Factor), this humectant helps keep skin and hair fresh-looking.



Mirasil® D-DML Silicone is a solution of a Dimethiconol gum of very high viscosity at 13% in a low viscosity Dimethicone. It is an easy to handle blend of high molecular weight Dimethiconol. It improves application feel and aesthetics, provides a smooth and slippery skin feel and provides a water proof non-occlusive film. Applications include lotions for hands and body, protecting creams and sun care, color cosmetics, shower gels and moisturizing creams and lotions.