

Principal/Trade Name, INCI	Weight %
Phase A	
Purified Water	80.30%
Versene NA2 Crystals <i>Disodium EDTA</i>	0.05%
Phase B	
 Palmera® G997U <i>Glycerin</i>	3.00%
 KELCOGEL® CG-LA Gellan Gum <i>Gellan Gum</i>	0.05%
 KELTROL® CG-SFT Xanthan Gum <i>Xanthan Gum</i>	0.30%
Phase C	
 INACLEAR® <i>Bentonite, Trimethoxybenzyl Acetylsinapate</i>	1.00%
 Palmera® G997U <i>Glycerin</i>	2.00%
Phase D	
CaCl2*2H2O (5% solution) <i>Calcium Chloride</i>	2.00%
Phase E	
 Mirasil® Balance <i>Cetyl PEG/PPG-10/1 Dimethicone</i>	3.00%
 Mirasil® Caprylyl TSO <i>Caprylyl Methicone</i>	3.00%
Magnol 1600 <i>Cetyl Alcohol</i>	2.00%
 GMS 165 <i>Glyceryl Monostearate, PEG-100 Stearate</i>	3.00%
Phase F	
 AJIDEW® NL 50 <i>Sodium PCA, Water</i>	0.30%
Euxyl PE 9010 <i>Phenoxythanol, Ethylhexylglycerin</i>	1.00%

Product Properties:

Appearance:	Thin emulsion
pH:	6.0-7.0
Viscosity:	3,000-6,000 (RVT 4@20)
Stability:	passed 50C (1 week), FT (5 cycles)

Procedure:

Phase A- Load the main tank with cold water and add Versene Na2 Crystals .Mix to dissolve.

Phase B: In a secondary vessel add Glycerin, KELCOGEL® CG-LA Gellan Gum and KELTROL® CG-SFT Xanthan Gum mixing until the premix is uniform and easy flowing, then add it slowly to phase A. Mix at high speed phase (A and B) for 30 min or until the batch is clear, homogeneous and free of lumps.

Phase C: Premix uniformly INACLEAR® with Glycerin and add it to the main, mixing well. When the batch is homogenous, start heating it to 80-85C. Reduce gradually the mixing speed to avoid aeration.

Phase D : When the temperature reaches 80-85C, stop heating . Add CaCl2*2H2O and mix well. Start cooling . When the temperature is 72-75C, add slowly phase E.

Phase E: In a secondary tank add all ingredients of phase E and mix while heating to 72-75 C. Add it to the main batch and mix for 30 seconds. Homogenize at 5000 rpm ,then continue cooling to RT while mixing gently.

Phase F: At 45-50 C , add the rest of the ingredients in the indicated order, mixing well after each addition. Keep mixing slowly until the temperature is 25-28C, to allow the fluid gel structure to develop.

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KELCOGEL® CG-LA Gellan Gum is an unique gelling agent for use in personal care applications. It can be used to form gels, modify textures, stabilize formulations (including emulsions and suspensions) and create films. This product is specifically designed for shampoo and haircare products, skin lotions and creams, as well as sunscreen and sun care products. It also is used as an emulsion stabilizer, suspension stabilizer, non-dissolving cosmetic films, and toothpaste.



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KELTROL® CG-SFT Xanthan Gum is a xanthan gum product with smooth-flow rheology that gives transparent solutions. It is a low-dusting, free-flowing powder for transparent solutions that is stable over wide pH range. It is designed specifically for use in cosmetics and other personal care products such as shower gels, liquid soaps, sunscreens, lotions and creams, eye make-up, hair care products, as well as shaving creams and foams.



INACLEAR® is a lightening active, mimetic of the physiologic palmo-plantar whitening. A major innovation through its mode of action, it acts on original signaling pathways mediated by DKK-I and fibroblasts. This active can be included in whitening and lightening formulation such as anti-dark spots radiance care.



MIRASIL® CAPRYLYL TSO acts an emollient and film former. It reduces the rub-on time of creams and lotions and provides a light, silky and smooth feel. It is compatible with cosmetic oils and waxes with an excellent spreadability. It improves spreading of non-polar oils. It enhances shine and color of pigment-based formulations. Provides non-tacky feel and improves drying time. **MIRASIL® CAPRYLYL TSO** is suitable for a wide range of applications like skin and body lotions / creams, foundations, color cosmetics (e.g. lipsticks), antiperspirant/deodorant, hair care (e.g. leave-on treatments) and sun care products.



MIRASIL® BALANCE is an alkyl and polyether modified polysiloxane used as an excellent water-in-oil emulsifier for skin creams, lotions and foundations. The copolyol acts as the hydrophilic, the alkyl offers the hydrophobicity and the silicone offers a pleasant light and silky feel to the W/O or W/Si emulsions.



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.



GMS-165 is a nonionic modified self-emulsifying glyceryl monostearate. It is extremely versatile, from standard applications such as hand creams to more specialized products, such as bleach lotions. It provides a consistent, attractive appearance, and luxurious feel, while maintaining other aesthetically desirable properties.