









Principal/Trade Name, INCI	Weight %
<b>Phase A</b>	
<b>Purified Water</b>	82.065%
<b>Versene NA2 Crystals</b> <i>Disodium EDTA</i>	0.05%
<b>Phase B</b>	
 <b>Palmera® G997U</b> <i>Glycerin</i>	3.00%
 <b>KELCOGEL® CG-LA Gellan Gum</b> <i>Gellan Gum</i>	0.05%
 <b>KELTROL® CG-SFT Xanthan Gum</b> <i>Xanthan Gum</i>	0.30%
<b>Phase C</b>	
<b>CaCl<sub>2</sub>*2H<sub>2</sub>O ( 5% solution)</b> <i>Calcium Chloride</i>	2.00%
<b>Phase D</b>	
 <b>Mirasil® Balance</b> <i>Cetyl PEG/PPG-10/1 Dimethicone</i>	3.00%
 <b>Mirasil® Caprylyl TSO</b> <i>Caprylyl Methicone</i>	3.00%
<b>Magnol 1600</b> <i>Cetyl Alcohol</i>	2.00%
 <b>GMS 165</b> <i>Glyceryl Monostearate, PEG-100 Stearate</i>	3.00%
 <b>RonaCare® Pristine Bright™</b> <i>Butylphenyl Methoxyphenyl Propandiol</i>	0.20%
<b>Phase E</b>	
 <b>AJIDEW® NL 50</b> <i>Sodium PCA, Water</i>	0.30%
<b>Euxyl PE 9010</b> <i>Phenoxythanol, Ethylhexylglycerin</i>	1.00%

## Product Properties:

Appearance:	Thin emulsion
pH:	4.40-5.20
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 Na<sub>2</sub> Crystals and 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, then add it slowly to phase A. Mix phase A and B for 30 min or until the batch is uniform, free of lumps. Heat to 80-85degC then stop heating, keeping the temperature at 80-85C.

**Phase C :** Add CaCl<sub>2</sub>\*2H<sub>2</sub>O and reduce the mixing speed.

**Phase D:** In a secondary tank add all ingredients of phase D and mix while heating to 80degC. Add phase D to the main batch and mix for 1 minute. Homogenize , then start cooling to RT.

**Phase E:** At 50 C , add the rest of the ingredients in the indicated order, mixing well after each addition. Keep mixing the batch while cooling to RT.

The information contained herein is being furnished for informational purposes only, upon the express condition that the User is solely responsible for determining the suitability of the products in all contemplated uses and applications notwithstanding any technical information provided by L.V. Lomas Limited ("Lomas"). While the information contained herein is believed to be reliable, no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for a particular application or the results to be obtained herefrom. Lomas shall have no liability to the User or to any third party based upon or arising out of the results obtained or situations caused by the use or handling of any material, whether used singly or in combination with other materials. LOMAS MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. It is the User's sole responsibility to determine if there are any issues relating to patent infringement of any component or combination of components relating to the suppliers information. Nothing contained herein is to be considered as permission, recommendation, nor an inducement to practice any patented invention without the permission of the patent owner.



A HUBER COMPANY

**KELCOGEL® CG-LA** Gellan Gum is a 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.



A HUBER COMPANY

**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.



**MIRASIL® CAPRYLYL TSO** acts as 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.



**RonaCare® Pristine Bright™** offers an effective new “tool” for flawless, porcelain-like complexion. It lends cosmetics such as BB creams, day and night creams and anti-aging products a brightening effect that gives skin a dazzling glow, youthful radiance and luminous skin tone.



**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.