

Principal/Trade Name, INCI	Weight %
Phase A	
Purified Water	q.s to 100
 Sodium Citrate Dihydrate USP/FCC Powder <i>Sodium Citrate</i>	0.10%
Phase B	
 Palmera® G997U <i>Glycerin</i>	4.00%
 Zemea® Propanediol <i>Propanediol</i>	6.00%
 KELCOGEL® CG-LA Gellan Gum <i>Gellan Gum</i>	1.00%
 GENUGEL® CG-130 Carrageenan <i>Chondrus Crispus (Carrageenan)</i>	0.20%
Phase C	
Citric Acid powder	0.16%
Phase D	
 AMILITE® ET-CS-12 <i>Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate, Sodium Cocoyl Threoninate, Water</i>	20.00%
Fruit Fusion T-3538	0.06%
Phase E	
 Colors	q.s
Euxyl PE 9010	0.80%
<i>Phenoxyethanol, Ethylhexylglycerin</i>	

Product Properties:

Appearance:	Solid colored gel
pH:	6.0-7.0
Viscosity:	NA
Stability:	passed 50C (1 week), FT (3 cycles)

Procedure:

Phase A- Load the main tank with cold water and start mixing at high speed . Add Sodium Citrate and mix to dissolve.

Phase B-In a secondary vessel premix uniformly Glycerin , Zemea® Propanediol, KELCOGEL® CG-LA Gellan Gum and GENUGEL® CG-130 Carrageenan. Add the slurry into phase A, mixing at high speed. The batch will become thick . Mix well for 30-45 min, or until the batch will become uniform. Slowly heat to 80-85 C, reducing the mixing speed to avoid aeration. The batch should be clear at 80-85C. Start cooling .

Phase C- At 80C, add Citric Acid and continue mixing at moderate speed.

Phase D- Premix the AMILITE® ET-CS-12 with the Fragrance until clear and heat to 75C . Add it into the main batch. The batch should stay clear.

Phase E -Add the colors and Euxyl PE 9010 , mixing well after each addition.

At 68-70C, pour small portions of the batch into molds and cool to RT.

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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 suncare products. It also is used as an emulsion stabilizer, suspension stabilizer, non-dissolving cosmetic films, and toothpaste.



GENUGEL® CG-I30 Carrageenan is a Kappa carrageenan. It is anionic water-soluble biopolymer that forms a firm brittle gel upon cooling that is transparent and thermally reversible. The gel strength and syneresis are influenced by the concentration of carrageenan and by the type and concentration of added salts. Gel texture can be modified by the incorporation of another polysaccharide (biopolymer).



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.



AMILITE® ET-CS-12 is a mild foaming surfactant, suitable for skin and hair cleansing products. Derived from L-Threonine, the amino acid with hydroxyl group, L-Glutamic acid and coconut fatty acids, it produces rich foam in weakly acidic conditions, and leaves a moist and smooth feeling on the skin, without a causing taut skin feeling. It increases foam volume of various amphoteric and nonionic surfactants.