

**Principal/Trade Name, INCI**
**Weight %**
**Phase A**
**Purified Water** 66.27%

**Versene NA2 Crystals** 0.05%  
*Disodium EDTA*

**Sorbitol Solution USP/FCC 70%** 4.00%  
*Sorbitol*

**AMILITE® ACS-12** 10.00%  
*Sodium Cocoyl Alaninate, Water*

**Novethix™ L-10 Polymer** 8.50%  
*Acrylates / Beheneth-25 Methacrylate Copolymer*

**AMISOFT® CS-22** 10.00%  
*Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate, Water*

**PRODEW® P-DS-12** 1.00%  
*Sodium Caproyl Prolinate, Water*
**Sodium Hydroxide (18% solution)** 0.38%  
*Sodium Hydroxide*

**D&C Red 33 (0.1% solution)** 0.10%  
*Red 33*

**Actiphyte® of Watercress** 0.10%  
*Glycerin, Water, Nasturtium Officinale Extract*
**Glydant™ Plus Liquid** 0.40%  
*DMDM Hydantoin, Iodopropynyl Butylcarbamate*
**Product Properties:**
**Appearance:** Clear thick pink liquid

**pH:** 6.50-6.80

**Viscosity:** 5,000-10,000cps ( RVT 4@20)

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

**Procedure:**

**Phase A-** Load the main tank with cold water and start mixing at moderate speed. Add Versene NA2 Crystals and mix well to dissolve. Add Sorbitol Solution USP/FCC slowly and continue mixing. Add AMILITE® ACS-12 and mix well to incorporate. Slowly add the Novethix™ L-10 Polymer and reduce the mixing speed. Mix until the batch is smooth and uniform. Add the rest if the ingredients in the indicated order, mixing thoroughly after each addition.

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**Principal/Trade Name, INCI**

**Weight %**

**Phase F**

**Purified Water** 86.20%

 **KELCOGEL® CG-LA Gellan Gum** 1.00%  
*Gellan Gum*

 **KELTROL® CG-SFT Xanthan Gum** 0.20%  
*Xanthan Gum*

 **Palmera® G997U** 6.00%  
*Glycerin*

**Phenoxyethanol** 0.60%  
*Phenoxyethanol*

**Phase G**

 **Colorona® Dark Blue** 1.00%  
*Mica, Titanium Oxide, Ferric Ferrocyanide*

**Phase H**

**CaCl<sub>2</sub> \* 2 H<sub>2</sub>O (5% solution)** 5.00%  
*Calcium Chloride*

**Product Properties:**

Appearance: Spherical opaque blue capsules

pH: na

Viscosity: na

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

**Procedure:**

Phase F: Premix well the KELCOGEL® CG-LA Gellan Gum with Glycerin until is uniform, then add KELTROL® CG-SFT Xanthan Gum and mix well for a homogeneous premix. Add the premix to the cold purified water mixing at high speed for 45 min. When the batch is smooth (free of lumps) heat to 80-85C, then cool it down to 50C. Reduce the mixing speed and add slowly Phenoxyethanol and mix well.

Phase G: Add the Colorona® Dark Blue to the main tank and mix until the batch is uniform.

Add small drops of the batch using a pipet into Phase H: Rinse the spheres with Purified Water.

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## **Lubrizol**

Novethix™ L-10 Polymer is a highly efficient hydrophobically modified alkali-swelling emulsion polymer (Hyper-HASE) designed for structuring most cleansing formulations containing anionic, nonionic and zwitterionic surfactants.



Sorbitol USP/FCC 70% (glucitol) is a type of sugar alcohol used as a thickener and a skin conditioning agent. It is a polyalcohol. In cosmetics and personal care products, Sorbitol is used in a wide range of products including aftershave lotions, baby shampoos and hair grooming aids. Sorbitol is also used as a sugar substitute and is added to many foods.

## **AJINOMOTO**

AMISOFT® CS-22 is a 25% active mild natural surfactant, created from the amino acid, L-Glutamic Acid and coconut fatty acids. This product is hypo-allergenic and non-comedogenic. It is derived from natural sources and is highly biodegradable. It can be used in a variety of cleansing applications including hair and body care, facial care, baby and geriatric care, health care and house hold uses.

AMILITE® ACS-12 is a 30 % active anionic derivative of the amino acid, L-Alanine, and natural fatty acids. It is gentle, hypoallergenic, and promotes the conditioning of hair fibers in the presence of cationic polymers and sensory hydration after drying hair. It produces creamy, bulky foam in neutral to slightly acidic condition, even in the presence of oils and silicones.

PRODEW® P-DS-12 is an amino acid based humectant derived from L-Proline and fatty acid. It has a good moisturizing effect and can work as a booster for antimicrobials.



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.

KELTROL® 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.



Colorona® Dark Blue is a dark blue lustrous powder for use in cosmetics. It contains 43.0-57.0% mica, 40.0-48.0% titanium dioxide and 3.0-9.0% ferric ferrocyanide. The Colorona® color luster pigments build a range of very colorful and truly intense pigments of various color shades. The shades of the Colorona® pigments are particularly intense because the mass tone of the added colorant is enhanced by the reflection of the interference pigment. Some uses for Colorona® Dark Blue are eye shadow, eye liner and eye pencil.