

**Principal/Trade Name, INCI**
**Weight %**
**Phase A**
**Purified Water** 67.35%

**Palmera® G997U** 4.00%  
*Glycerin*

**GENUVISCO® CG-129 Carrageenan** 0.05%  
*Chondrus Crispus (Carrageenan)*

**KELTROL® CG-SFT Xanthan Gum** 0.60%  
*Xanthan Gum*
**Phase B**

**Chembetaine™ ACB Surfactant** 3.00%  
*Coco-betaine*

**AMILITE® ET-CS 12** 7.00%  
*Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate, Sodium Cocoyl Threonionate, Water*

**AMISOFT® ECS-22W** 10.00%  
*Disodium Cocoyl Glutamate, Water*
**Citric Acid powder** 0.35%  
*Citric Acid*
**Phase C**
**Purified Water** 3.40%

**POLYCOS RS-UF** 1.00%  
*Oryza Sativa (Rice) Starch, Cetrimonium Chloride*
**Phase D**

**PRODEW® 500** 1.00%  
*Sodium PCA, Sodium Lactate, Arginine, Aspartic Acid, PCA, Glycine, Alanine, Serine, Valine, Proline, Threonine, Isoleucine, Phenylalanine, Water*

**AJIDEW® NL-50** 1.00%  
*Sodium PCA, Water*
**Phenoxyethanol** 0.60%  
**Sodium Benzoate** 0.20%  
**Potassium Sorbate** 0.20%

**Product Properties:**
**Appearance:** Milky, smooth liquid

**pH:** 5.0-5.80

**Viscosity:** 2000-4000 cps ( RVT 5@20)

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

**Procedure:**

**Phase A-** Load the main tank with water and start mixing at high speed .

In a secondary vessel add Glycerin and GENUVISCO® CG-129 Carrageenan and mix until the premix is uniform, then add KELTROL® CG-SFT Xanthan Gum and mix well for a homogeneous system. Add the premix into the main batch and mix well for 30 minutes or until the batch becomes uniform. Reduce the mixing speed to avoid aeration.

**Phase B-** Add each ingredient and mix well after each addition. The batch should be uniform, free of lumps.

**Phase C-** Mix purified water and POLYCOS RS-UF in a secondary vessel until the powder is dispersed uniformly and add to the main batch slowly.

Add each ingredient of **Phase D** into the main batch and mix well after each addition.

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GENUVISCO® CG-129 Carrageenan is a Lambda Carrageenan. It's an anionic water-soluble bio-polymer that thickens aqueous solutions and is stable under alkaline conditions. Lambda carrageenan forms viscous, non-gelling solutions.



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.

## Lubrizon

Chembetaine™ ACB Surfactant is excellent for viscosity building and foam boosting in personal care cleansing formulations with high vegetable content, and no animal derivatives. This product reduces irritation when formulated with anionic surfactants. Its hard water tolerance permits equally good foaming in hard and soft water. This product is stable in high-electrolyte solutions and will help solubilize other surfactants into these systems.

## AJINOMOTO

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.

## AJINOMOTO

AMISOFT® ECS 22W is an anionic surfactant produced from L-Glutamic acid (an amino acid) and plant-derived palm kernel fatty acid. It is natural, mild, eco-friendly, and easy to use in formulations. This product is recommended for use in body wash, hand wash, hair shampoo, facial wash, make-up cleansing, and bar soap.

## polygal ag

POLYCOS RS-UF is a natural, soft, physically modified, surface-active rice starch with a specific softness due to its fine particle size of approximately 8 µm. It is co-processed with cetrimonium chloride.

## AJINOMOTO

PRODEW® 500 is a highly effective moisturizer formulated with NMF (Natural Moisturizing Factor) components. It has excellent moisture absorption and retention capabilities. When sodium PCA and L-proline, the components of ProdeW®, are mixed, they show a synergistic moisturizing effect.

## 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.