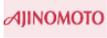


Principal/Trade Name, INCI	Weight %
<b>Phase A</b>	
<b>Purified Water</b>	75.05%
<b>polygal ag POLYCOS MS-STE</b> <i>Zea Mays (Corn) Starch</i>	0.50%
<b>Phase B</b>	
 <b>Palmera® G997U</b> <i>Glycerin</i>	3.50%
 <b>GENU® pHresh DF Pectin</b> <i>Pectin</i>	1.00%
<b>polygal ag POLYCOS 18/1-85LS-C</b> <i>Ceratonia Siliqua Gum</i>	0.50%
<b>Phase C</b>	
 <b>ELDEW® SL-205</b> <i>Isopropyl Lauroyl Sarcosinate</i>	2.00%
 <b>ELDEW® PS-203</b> <i>Phytosteryl/Otyldodecyl Lauroyl Glutamate</i>	2.00%
 <b>ELDEW® APS-307</b> <i>Phytosteryl/Decyltetradecyl Myristoyl Methyl Beta-Alaninate</i>	1.00%
 <b>High Oleic Sunflower Oil</b> <i>Helianthus Annuus (Sunflower) Seed Oil</i>	5.00%
<b>Magnol 1600</b> <i>Cetyl Alcohol</i>	2.00%
 <b>GMS-SE</b> <i>Glyceryl Monostearate</i>	4.00%
 <b>AMIHOPE® LL</b> <i>Lauroyl Lysine</i>	0.15%
<b>Phase D</b>	
 <b>PRODEW® P-DS-12</b> <i>Sodium Caproyl Prolinate, Water</i>	1.00%
 <b>AJIDEW® NL-50</b> <i>Sodium PCA, Water</i>	0.50%
 <b>AJIDEW® ZN-100</b> <i>Zn PCA</i>	1.00%
<b>Euxyl PE 9010</b> <i>Phenoxyethanol, Ethylhexylglycerin</i>	0.80%

## Product Properties:

Appearance: Whipped, uniform emulsion

pH: 4.5-5.5

Viscosity: 20000-40000 cps ( RVT 5@20)

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

## Procedure:

**Phase A-** Load the main vessel with water and start mixing at high speed . Add POLYCOS MS-STE and mix until dissolved.

**Phase B** -In a secondary vessel add Glycerin and GENU®pHresh DF Pectin and mix until the premix is uniform, then add POLYCOS 18/1-85LS-C and mix well for a homogeneous system. Add the premix into the main batch and mix well until the batch will become uniform. Reduce the mixing speed to avoid aeration. Heat to 75C.

**Phase C-** Add all ingredients in a separate vessel and heat to 75C stirring continuously. At 75C , add Phase C to Phase A and mix well. Homogenize at 6000 rpm .Start cooling to RT while mixing slowly.

**Phase D-** When the batch reaches 50 C, add each ingredient of Phase D into the batch, mixing well after each addition. Upon addition of AJIDEW® ZN-100 , the batch become thick and grainy. Increase the mixing speed and continue mixing . Add Euxyl PE 9010 and mix well. At RT, homogenize thoroughly .

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## polygal ag

POLYCOS MS-STE is a sterilized corn starch with high adsorption for oil and fats. It can be used as an alternative to talcum, improving moisture balance and reducing the drying of the skin.



GENU® pHresh DF Pectin is a blend of high ester and low ester pectin extracted from citrus peel. This product has a buffer capacity in aqueous systems and functions as a no sugar or other inert dilution agent used for standardization. It is typically used in skin care formulations such as lotion, creams, deodorants, and shaving lotions.

## polygal ag

POLYCOS 18/85 LS-C is a Locust Bean Gum is a natural thickening and gelling agent that is extracted from the seeds of the Carob Tree.

## AJINOMOTO

ELDEW® SL-205 is a high polar emollient and has characteristically smooth spreadability providing a light skin feel. It is derived from the amino acid Sarcosine and has a good biocompatibility and biodegradability profile. It also has the ability to readily dissolve poorly soluble materials such as organic UV filters and active ingredients.

## AJINOMOTO

ELDEW® PS-203 is an emollient derived from glutamic acid, natural fatty acid, higher alcohol and Phytosterol. It forms lamellar liquid crystals identical to ceramide. Because of its high affinity for the skin, ELDEW® starts to moisturize effectively as soon as it is applied. Further, this efficacy persists over long periods of time. Applied to SDS-induced damaged skin, ELDEW® helps skin recover its ability to retain moisture, thus improving rough skin conditions.

## AJINOMOTO

ELDEW® APS-307 is a light waxy emollient derived from  $\beta$ -Alanine and Phytosterol. It has an excellent moisturizing skin feel without stickiness and it has significant water holding capacity.

## AJINOMOTO

AMIHOPE® LL is an amino acid based functional powder derived from L-Lysine (an amino acid) and fatty acids. It is insoluble in both water and oil. Its flat, hexagonal, and crystalline structure gives AMIHOPE® LL a very smooth, soft, silky feel, making it an ideal ingredient in cosmetic products. AMIHOPE® LL can be used as a pigment-dispersing agent or a texture improver in makeup, skin care, and hair care products.

## 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.

## AJINOMOTO

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.

## AJINOMOTO

AJIDEW® ZN-100 is the Zinc salt of L-Pyrrolidone Carboxylate (Zinc PCA). L-Pyrrolidone Carboxylate (PCA) and its Sodium salt are natural humectants associated with the Natural Moisturizing Factor (NMF) of the skin. It provides fresh feeling to the skin which makes it ideally suited for cosmetics and toiletries. It also helps to mitigate the appearance of unwanted excess sebum, delivering fresh feeling to the skin and hair.