

Principal/Trade Name, INCI
Weight %
Phase A

	Purified Water	88.40%
polygal ag	POLYCOS CA 750 <i>Guar Hydroxypropyltrimonium Chloride</i>	0.25%
polygal ag	POLYCOS 44/IC <i>Caesalpinia Spinosa Gum</i>	0.50%
AJINOMOTO	L-Glutamic Acid <i>Glutamic Acid</i>	0.20%
AJINOMOTO	CAE <i>PCA Ethyl Cocoyl Arginate</i>	0.20%

Phase B

	Magnol 1800 <i>Stearyl Alcohol</i>	4.00%
	Magnol 1600 <i>Cetyl Alcohol</i>	3.50%
AJINOMOTO	ELDEW® APS 307 <i>Phytosteryl/Decyltetradecyl Myristoyl Methyl Beta-Alaninate</i>	2.00%

Phase C

	Sodium Hydroxide 18% sol <i>Sodium Hydroxide</i>	0.15%
AJINOMOTO	AJIDEW® NL-50 <i>Sodium PCA, Water</i>	0.20%
	Phenoxyethanol <i>Phenoxyethanol</i>	0.60%

Product Properties:

Appearance:	White , viscous emulsion
pH:	4.50-5.80
Viscosity:	5000-10000cps (RVT, spindle 5@ 20 rpm)
Stability:	passed 50C (1 week), FT (5 cycles)

Procedure:

Phase A-Load the main tank with water and sprinkle slowly POLYCOS CA-750 while mixing. When all is dissolved add POLYCOS 44/IC and continue mixing. The batch will become thick and uniform. Add L-Glutamic Acid and mix to dissolve . Add CAE and mix well. Start heating to 75C .

Phase B- Add all the ingredients in a secondary vessel and heat to 75C while stirring constantly.

Add Phase B into Phase A and mix to obtain a homogeneous batch. Homogenize at 4500 rpm. Start cooling to RT while mixing slowly.

Phase C- At 60C, add NaOH and mix well. At 50C add AJIDEW® NL-50 and mix slowly. Add Phenoxyethanol and continue mixing to RT.

Homogenize slightly at 4500 rpm .

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polygal ag

POLYCOS 44/I C is a cold soluble Tara Gum that provides natural viscosity and emulsion stability solutions. The cationic compatibility make it an excellent choice for use in a wide variety of cationic materials.

AJINOMOTO

L-Glutamic Acid is an excellent moisturizer as the chemical structure of glutamic acid makes the substance attractive to water molecules. Because moisture is naturally drawn to glutamic acid, when it is applied to the skin or hair, the ingredient has the ability to pull water from the air and transfer it to the tissue. Glutamic acid helps to restore the moisture balance that is necessary to keep the skin soft and smooth. In hair conditioners and styling products, it's used to reduce frizz and to prevent over-drying resulted from coloring, perming and straightening.

AJINOMOTO

CAE is an amino acid cationic surfactant derived from L-Arginine, DL-Pyrrolidone Carboxylate and fatty acid. CAE is very safe and suitable ingredient for cosmetic products. CAE is absorbed to the hair and acts as a hair conditioner. CAE is highly biodegradable despite the fact that it is a cationic surfactant.

polygal ag

POLYCOS CA 750 is a polysaccharide composed of the sugars galactose and mannose. Guar gum is a natural economical thickener and emulsifier and can be used in various multiphase formulations as it helps to prevent oil droplets from coalescing providing a light elegant feel to an emulsion.

AJINOMOTO

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

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.