

Principal/Trade Name, INCI	Weight %
Phase A	
Purified Water	85.40%
Versene NA2 Crystals <i>Disodium EDTA</i>	0.05%
polygal ag POLYCOS N-75 <i>Guar Gum</i>	0.40%
 AMISOFT® HS-11(P) <i>Sodium Stearoyl Glutamate</i>	0.50%
 Sweet'N'Neat® 50 <i>Sucrose, Maltodextrin , Honey</i>	0.50%
Phase B	
 Arcon® S <i>Soy Protein Concentrate</i>	0.50%
Purified Water	3.00%
Phase C	
Magnol 1600 <i>Cetyl Alcohol</i>	2.00%
 High Oleic Sunflower Oil <i>Helianthus Annuus (Sunflower) Seed Oil</i>	3.00%
 Soy Lecithin <i>Lecithin</i>	0.20%
 Coconut Oil <i>Cocos Nucifera (Coconut) Oil</i>	2.00%
 ELDEW® PS-306 <i>Phytosteryl/Behenyl /Octyldodecyl Lauroyl Glutamate</i>	1.00%
Phase D	
 AJIDEW® ZN-100 <i>Zinc PCA</i>	0.20%
Vanilla U-11392 <i>Fragrance</i>	0.25%
Euxyl PE 9010 <i>Phenoxythanol, Ethylhexylglycerin</i>	1.00%

Product Properties:

Appearance:	Thick emulsion
pH:	5.0-6.0
Viscosity:	3000-6000 cps (RVT 5@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 until all dissolved .Sprinkle POLYCOS N-75 and mix at moderate speed for a homogenous dispersion. The batch will become thick. Slowly add AMISOFT® HS-11(P) and mix until the batch is smooth. Add Sweet'N'Neat® 50 and mix well to dissolve.

Phase B: Add ingredients and mix well until the premix is homogeneous (free of lumps). Add it slowly to the main batch. Heat to 75C while mixing .

Phase C : Add all ingredients and heat to 75C , mixing slowly. At 75C, add phase C into the main batch and mix until the batch becomes uniform. Homogenize for few seconds at 6000 rpm. Start cooling to RT.

Phase D : At 50 C, add each ingredient in the indicated order, mixing thoroughly after each addition.

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polygal ag

POLYCOS N 75 Guar gum 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

AMISOFT® HS-1 IP is an anionic surfactant produced from L-Glutamic acid and plant derived palm fatty acid. It acts as a very mild surfactant leaving the skin feel soft and moisturized. This material is also a efficient natural emulsifier. The pH is similar to the one of the skin.

ELDEW® PS-306 is an emollient derived from glutamic acid, natural fatty acid, higher alcohol and phytosterol. 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.

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.



Sweet'n'Neat® Dry Honey Powder- Honey is a natural humectant as it has a hygroscopic nature, therefore when exposed to air, it naturally absorbs moisture in from the air. Honey also exhibits antimicrobial properties as it contains an enzyme agent that prohibits the growth of certain bacteria.

Arcon®S is a soy protein that works as a natural moisturizer as well as provides conditioning properties to hair and skin.

Soy Lecithin- acts as an emulsifier as well as helps to hydrate, replenish and repair the skin due to its essential fatty acid content. It is naturally derived from soybeans, and offers skin protection qualities and acts as a natural moisturizer. It is a source of choline and inositol, which are important components of all cell membranes, and play an important role in cell growth and function.