

Principal/Trade Name, INCI	Weight %
<b>Phase A</b>	
<b>Purified Water</b>	46.75%
 <b>Carbopol® Aqua SF-I Polymer</b> <i>Acrylates Copolymer</i>	8.00%
<b>Versene NA2 Crystals</b> <i>Disodium EDTA</i>	0.05%
<b>Phase B</b>	
 <b>Chembetaine™ C Surfactant</b> <i>Cocamidopropyl Betaine</i>	5.00%
 <b>Merquat™ 3330PR Polymer</b> <i>Polyquaternium 39</i>	1.00%
<b>Phase C</b>	
 <b>Sulfochem™ ES-2CWK Surfactant</b> <i>Sodium Laureth Sulfate</i>	30.00%
<b>Sodium Hydroxide (18% solution)</b> <i>Sodium Hydroxide</i>	1.35%
 <b>Sweet' N' Neat® 50</b> <i>Sucrose, Maltodextrin, Honey</i>	1.00%
 <b>Actiphyte® of Manuka Honey GL</b> <i>Glycerin, Water, Manuka Honey Extract</i>	0.10%
 <b>AJIDEW® NL-50</b> <i>Sodium PCA, Water</i>	0.20%
<b>Phase D</b>	
<b>Purified Water</b>	5.00%
 <b>Timiron® Starlight Gold</b> <i>Mica, Titanium Oxide, Tin Oxide</i>	0.30%
 <b>ProFam® 781</b> <i>Soy Protein Isolate</i>	0.50%
<b>Phase E</b>	
<b>Vanilla U-11392</b> <i>Fragrance</i>	0.15%
 <b>T-Maz® 20</b> <i>Polysorbate 20</i>	0.20%
<b>Phase F</b>	
<b>Glydant™ Plus Liquid</b> <i>DMDM Hydantoin, Iodopropynyl Butylcarbamate</i>	0.40%

## Product Properties:

Appearance: Milky smooth liquid, with golden glitter

pH: 6.6-7.2

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 Carbopol® Aqua SF-I Polymer and mix until all dispersed . Add Versene Na2 Crystals and mix well to dissolve.

**Phase B:** In a secondary tank add Chembetaine™ C Surfactant and Merquat™ 3330PR Polymer and mix well. When the premix is clear, add phase B into the main tank.

**Phase C :** Add slowly each ingredient , in the indicated order, mixing well after each addition.

**Phase D :** Add all ingredients into a secondary tank and mix until the premix is homogeneous. Add it slowly to the main batch.

**Phase E:** Add the Fragrance and T-Maz® 20 to a secondary tank and mix well until is clear. Add it slowly to the batch and continue mixing.

**Phase F.:** Add Glydant™ Plus Liquid and mix well.

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## Lubrizol

Carbopol® Aqua SFI Polymer is a cost-effective and easy-to-use liquid product that is designed to suspend, stabilize, thicken and enhance appearance of surfactant-based personal cleansing products and soap-based cleansing systems.

Chembetaine™ C Surfactant is a high-foaming, mild surfactant that is stable over a wide pH range. Its excellent foam and viscosity building with anionics suggest uses in bubble baths, liquid soaps, skin cleansers, shampoos and conditioners.

Merquat™ 3330PR Polymer is a patented ampholytic terpolymer that is compatible with anionic and amphoteric surfactants. It is ideally suited for liquid cleansing products. In skin care formulations, it provides silky skin feel and moisturization. In hair care formulations, it provides excellent wet and dry combing properties. Merquat 3330PR is also paraben free.

Sulfochem™ ES-2CWK Surfactant is a low color and odor and version of SLES. Low salt levels allow for an easily handled low-viscosity surfactant. It may be thickened with salt to the same viscosity as traditional SLES products. This product is a versatile, cost-effective surfactant for use in personal cleansing products due to its superior flash foam and lather characteristics.



Sweet'n'Neat® 50 - 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.

Profam® 781 - Soy proteins work as natural skin moisturizer as well as provide conditioning properties in hair care.

## active organics

Actiphyte® of Manuka Honey GL is the perfect ingredient for natural hydration of the skin. It helps to balance the skin's moisture levels. It can help to reduce inflammation and aid in tissue health.

## AJINOMOTO

AJIDEW® NL-50 (Sodium Pyrrolidone Carboxylate=Na PCA) 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. Because AJIDEW® NL-50 has excellent moisturizing effects and safety to skin and eye mucosa, this product is especially useful as a humectant for cosmetics and toiletries.



Timiron® Starlight Gold is a golden-white sparkling powder with a large particle size (10-125 µm) hence providing maximum brilliance and sparkle. The versatile pigments impart that second dimension of pearlescence to any elegant cosmetic or personal care product. Their white mass tone provides outstanding skin coverage while maintaining a natural look.