Moisturizing Sunscreen

INCI (CFTA) Name %  
B. Campestris / A. Fordii Oil Copolymer 5.00  
Dimethicone Copolyol 3.00  
Cyclomethicone 14.80  
Cyclomethicone and Dimethicone Copolyol 8.00  
INCI (CFTA) Name %  
B. Campestris / A. Fordii Oil Copolymer 2.50  
Glyceryl Stearate 1.50  
Cetyl Alcohol 0.70  
Dimethicone 1.00  
Stearic Acid 2.50  
Propylparaben 0.10  
Carbomer 0.05  
Glycerin 2.00  
Methylparaben 0.15  
Magnesium Aluminum Silicate 0.20  
Water 100.00

Procedure:
1. Combine all ingredients of phase A and heat it up to 55-60°C in a reactor.
2. Combine and heat phase B ingredients to 65-70°C.
3. Slowly add phase B into A and mix with CONSTANT SLOW SWEEP MIXING.
4. Stir the mixture for a short time and then start homogenizing (while mixing) until the batch is melted.
5. Blend the mixture for about 5-8 min and let it cool slowly down to 65-70°C.
6. Slowly pour into container at 55-60°C and let it solidify.

Moisturizing Body Lotion

INCI (CFTA) Name % 
B. Campestris / A. Fordii Oil Copolymer 2.50  
Glyceryl Stearate, Cetearyl Alcohol, Stearic Acid 5.00  
Propylene Glycol, Sunflower Seed Extract, Tocopheryl Acetate 3.00  
DL Panthenol 0.50  
Wheat Germ Extract, Arnica Extract 5.00  
Methylparaben, Propylparaben 0.80  
Propylene Glycol and Diazolidinyl Urea and Methylparaben, Propylparaben 1.00  
INCI (CFTA) Name % 
Wheat Germ Extract 1.00  
Tocopheryl Acetate 0.50 
Water 90.50

Procedure:
1. Combine all ingredients together and heat slowly until all are melted (while mixing) until all are melted.
2. Once both phases are at 65-70°C, slowly add phase B into A and mix with CONSTANT SLOW SWEEP MIXING.
3. When the batch starts thickening add phase B and mix slowly until it thickens.
4. Once batch is uniform, begin cooling batch with SWEEP.
5. Slowly cool down to 65-70°C.
6. Slowly pour into container at 55-60°C and let it solidify.

Shave Cream Concentrate

INCI (CFTA) Name % 
B. Campestris / A. Fordii Oil Copolymer 1.50  
Oleth-20 1.50  
Stearic Acid 10.00  
Acrylates/C10-30 Alkyl Acrylate Crosspolymer 0.30  
Water 76.30

Procedure:
1. Combine all ingredients of phase A and heat it up to 55-60°C.
2. Combine and heat phase B ingredients to 65-70°C.
3. Slowly add phase B into A and mix with CONSTANT SLOW SWEEP MIXING.
4. Stir the mixture for a short time and then start homogenizing (while mixing) until the batch is melted.
5. Blend the mixture for about 5-8 min and let it cool slowly down to 65-70°C.
6. Slowly pour into container at 55-60°C and let it solidify.
Multifunctional: thickens, moisturizes, conditions, adds gloss, and rub-off resistance to personal care and cosmetic formulations.

MOISTURE RELATED BENEFITS:

WEAR RELATED BENEFITS:

FORMULATING BENEFITS:

Glossamer™ is a new natural polymer for skin, sun and hair care applications.}

... a new natural polymer for skin, sun and hair care applications

Primers or a series of additives may be used to:

- Formulate benefits
- Reduce viscosity of the oil phase of a cream or lotion
- Evenly coats the hair shaft to impart the enhanced luster and shine that consumers perceive with a new sense of gloss, which is desired by consumers
- Comprise an emollient properties, provides for excellent after
- Formulation.


developments, formulation.

Viscosity, cps

<table>
<thead>
<tr>
<th>Viscosity, cps</th>
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<td>200</td>
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<th>Relative Amount Dissolved</th>
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| glossy, and
cut-off resistance to personal care and cosmetic formulations.

Glossamer™ is a new natural polymer for skin, sun and hair care applications. It offers several benefits that can enhance the ability of the formulator of skin and hair care products to make the claims or enhance the ability of the formulator to:

- Develop new products
- Improve existing products
- Formulate products that are:
  - More effective
  - More stable
  - More consumer-friendly

Glossamer™ contains:

- Polymeric features that can enable
effective performance
- Improved gloss or shine.

These polymeric features can enable
improved gloss or shine.

Glossamer™ is a new natural polymer for skin, sun and hair care applications. It offers several benefits that can enhance the ability of the formulator of skin and hair care products to make the claims or enhance the ability of the formulator to:

- Develop new products
- Improve existing products
- Formulate products that are:
  - More effective
  - More stable
  - More consumer-friendly

Glossamer™ contains:

- Polymeric features that can enable
effective performance
- Improved gloss or shine.
Applications: Suggested formulations are included for a variety of products.

Hand and Nail Cream

PHASE A
1. Combine all ingredients together and heat to 75°C until all are melted (while mixing) until all are melted.
2. Homogenize the mixture for a short time and then start sweeping at 50°C.
3. Once mixture is in liquid state, then let it solidify.

PHASE B
1. Combine ingredients of phase B at room temperature.
2. Homogenize the mixture for a short time and then start sweeping.
3. Stir for 5 min at 55-60°C, SLOWLY add Phase B into A and mix with CONSTANT SLOW SWEEP MIXING.

Moisture Rich Shave Cream Concentrate

PHASE A
1. Combine all ingredients together and blend until smooth. Store in a cold environment.
2. Heat water phase D to 55-60°C.
3. Once both phases are at 55-60°C, SLOWLY add phase D to phase C.
4. Once batch is uniform, begin cooling batch with SWEEP.

PHASE B
1. Combine ingredients of phase B at room temperature.
2. Start cooling the batch. Continue mixing as long as the mixture is in liquid state, then let it solidify.

Sleek & Chic Hair Pomade for Hold and Shine

PHASE B
1. Combine all ingredients together and heat to 55-60°C. Mix with propeller agitator until uniform.
2. Homogenize the mixture for a short time and then start sweeping.
3. Stir for 5 min at 55-60°C, SLOWLY add Phase B into A and mix with CONSTANT SLOW SWEEP MIXING.
4. Mix with propeller agitator until uniform.

PHASE A
1. Combine all ingredients together and blend until smooth. Store in a cold environment.
2. Heat water phase D to 55-60°C.
3. Once both phases are at 55-60°C, SLOWLY add phase D to phase C.
4. Once batch is uniform, begin cooling batch with SWEEP.

Moisturizing Sunscreen

PHASE A
1. Combine ingredients of phase A at room temperature.
2. Start cooling the batch. Continue mixing as long as the mixture is in liquid state, then let it solidify.

PHASE B
1. Combine all ingredients together and blend until smooth. Store in a cold environment.
2. Heat water phase D to 55-60°C.
3. Once both phases are at 55-60°C, SLOWLY add phase D to phase C.
4. Once batch is uniform, begin cooling batch with SWEEP.

PHASE C
1. Combine ingredients of phase C at room temperature.
2. Stir for 5 min at 55-60°C, SLOWLY add Phase B into A and mix with CONSTANT SLOW SWEEP MIXING.
3. Add phase D and heat to 55-60°C.

PHASE D
1. Combine ingredients of phase D at room temperature.
2. Start cooling the batch. Continue mixing as long as the mixture is in liquid state, then let it solidify.

Sleek & Chic Hair Pomade for Hold and Shine

PHASE B
1. Combine all ingredients together and blend until smooth. Store in a cold environment.
2. Heat water phase D to 55-60°C.
3. Once both phases are at 55-60°C, SLOWLY add phase D to phase C.
4. Once batch is uniform, begin cooling batch with SWEEP.

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2. Heat water phase D to 55-60°C.
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4. Once batch is uniform, begin cooling batch with SWEEP.
Glossamer® is a new natural polymer for skin, sun and hair care applications.

**MOISTURE RELATED BENEFITS:**

- **Water Retention**: Glossamer® dramatically increased the solubility in water of the cosmetic carrier oil, showing a superior ability to hold water in the formulation compared to the standard volatile solvent.

- **Sunscreen Water Resistance**: The SPF level was retained after immersion in wash water for 80 minutes, indicating its excellent resistance to water.

- **Rub-off Resistance**: The sunscreen sample remained on the skin even after wiping, demonstrating its strong rub-off resisting property.

**WEAR RELATED BENEFITS:**

- **Skin Moisturization**: The moisturizing lotion formula containing Glossamer® showed a long-lasting improvement in skin moisturization, as demonstrated by the retention of moisture content.

- **Rub-off Resistance**: The addition of Glossamer® to the formulation resulted in a significant reduction in rub-off resistance, allowing for better skin barrier protection.

**FORMULATING BENEFITS:**

Glossamer® natural polymer has an affinity for the skin which, combined with its inherent, vegetable oil derived properties, provides for excellent compatibility and improved distribution throughout the formulation. It can impart excellent wet and dry combing from rinsed-off hair care products such as shampoos, conditioners and leave-on products.
Moisturizing Body Lotion

**Phase A**
- **INCI (CFTA) Name %**
  - Water 40.00
  - Emulsifiers
    - Decyl Olivate and Squalene 5.00
    - Sodium Stearoyl Lactylate 5.00
    - Tocopheryl Acetate 0.50
    - Glycerin 2.00
    - Propylene Glycol 2.00
    - Glycerin 2.00
    - Magnesium Aluminum Silicate 0.20
    - Carbomer 0.05
    - Triethanolamine 0.70
    - Aluminum Starch Octenyl Succinate 1.00
    - DMDM Hydantoin/lodoporpynyl Butylcarbamate 0.10
    - Glycerin 3.00
    - Sodium Chloride 0.20
    - Lanolin Alcohol 0.30
    - Decyl Olivate and Squalene 5.00
    - Tocopheryl Acetate 0.50
    - Glycerin 2.00
    - Glycerin 2.00
    - Magnesium Aluminum Silicate 0.20
    - Carbomer 0.05
    - Triethanolamine 0.70
    - Aluminum Starch Octenyl Succinate 1.00
    - DMDM Hydantoin/lodoporpynyl Butylcarbamate 0.10
    - Glycerin 3.00
    - Sodium Chloride 0.20
    - Lanolin Alcohol 0.30
  - 

**Phase B**
- **INCI (CFTA) Name %**
  - B. Campestris / A. Fordii Oil Copolymer 5.00
  - Hydrogenated Docosanyl Castor Esters 10.00
  - Waxy Methyl Glucomes Dioleate 1.70
  - Cyclomethicone 14.80
  - Cyclomethicone and Dimethiconol 3.00
  - Methyl Glucomes Dioleate 1.70
  - Cyclomethicone 14.80
  - Cyclomethicone and Dimethiconol 3.00
  - 

**Phase C**
- **INCI (CFTA) Name %**
  - B. Campestris / A. Fordii Oil Copolymer 2.50
  - C12-C15 Alkyl Benzoate 1.00
  - Glyceryl Stearate 1.50
  - Cetyl Alcohol 0.70
  - Dimethicone 1.00
  - Propylene Glycol 25.00
  - Oleth-25 4.00
  - Oleth-10 8.00
  - Hydroxyethylcellulose 0.50
  - Water 68.50

**Incorporation and Dosing**
- Combine all ingredients together and heat slowly until homogenization preferable. Cool the batch to 40 °C or until Sorbitan Olivate is dissolved.
- Mix with propeller agitator until uniform.

Moisturizing Sunscreen

**Phase A**
- **INCI (CFTA) Name %**
  - B. Campestris / A. Fordii Oil Copolymer 2.00
  - Glyceryl Stearate, Cetearyl Alcohol, Sodium Laureth-12 Sulfate 2.00
  - Stearic Acid 2.00
  - Propylene Glycol and Diazolidinyl Urea and Methylparaben, Propylparaben 0.80
  - Water 43.20

**Phase B**
- **INCI (CFTA) Name %**
  - Hydrogenated Polyisobutane 4.00
  - Oleth-25 4.00
  - PEG-40 Hydrogenated Castor Oil 25.00
  - Hydrogenated Polyisobutane 4.00
  - Oleth-25 4.00
  - PEG-40 Hydrogenated Castor Oil 25.00
  - 

**Phase C**
- **INCI (CFTA) Name %**
  - C12-C15 Alkyl Benzoate 5.00
  - Isopropyl Palmitate 8.00
  - Stearic Acid 2.00
  - Propylene Glycol 2.00
  - Water 75.00

**Incorporation and Dosing**
- Homogenize the mixture for a short time and then start mixing very slowly under high speed mixing. Cool the batch to 60 °C or until Sorbitan Olivate is dissolved.
- Mix with propeller agitator until uniform.

Shave Cream Concentrate

**Phase A**
- **INCI (CFTA) Name %**
  - C12-C15 Alkyl Benzoate 5.00
  - Isopropyl Palmitate 8.00
  - Stearic Acid 2.00
  - Propylene Glycol 2.00
  - Water 75.00

**Phase B**
- **INCI (CFTA) Name %**
  - Propellant A-46 5.00
  - Shave Cream Concentrate 95.00
  - 

**Incorporation and Dosing**
- Homogenize the mixture for a short time and then start mixing very slowly under high speed mixing. Cool the batch to 60 °C or until Sorbitan Olivate is dissolved.
- Mix with propeller agitator until uniform.

**Phase C**
- **INCI (CFTA) Name %**
  - C12-C15 Alkyl Benzoate 5.00
  - Isopropyl Palmitate 8.00
  - Stearic Acid 2.00
  - Propylene Glycol 2.00
  - Water 75.00

**Incorporation and Dosing**
- Homogenize the mixture for a short time and then start mixing very slowly under high speed mixing. Cool the batch to 60 °C or until Sorbitan Olivate is dissolved.
- Mix with propeller agitator until uniform.

**Phase D**
- **INCI (CFTA) Name %**
  - C12-C15 Alkyl Benzoate 5.00
  - Isopropyl Palmitate 8.00
  - Stearic Acid 2.00
  - Propylene Glycol 2.00
  - Water 75.00

**Incorporation and Dosing**
- Homogenize the mixture for a short time and then start mixing very slowly under high speed mixing. Cool the batch to 60 °C or until Sorbitan Olivate is dissolved.
- Mix with propeller agitator until uniform.