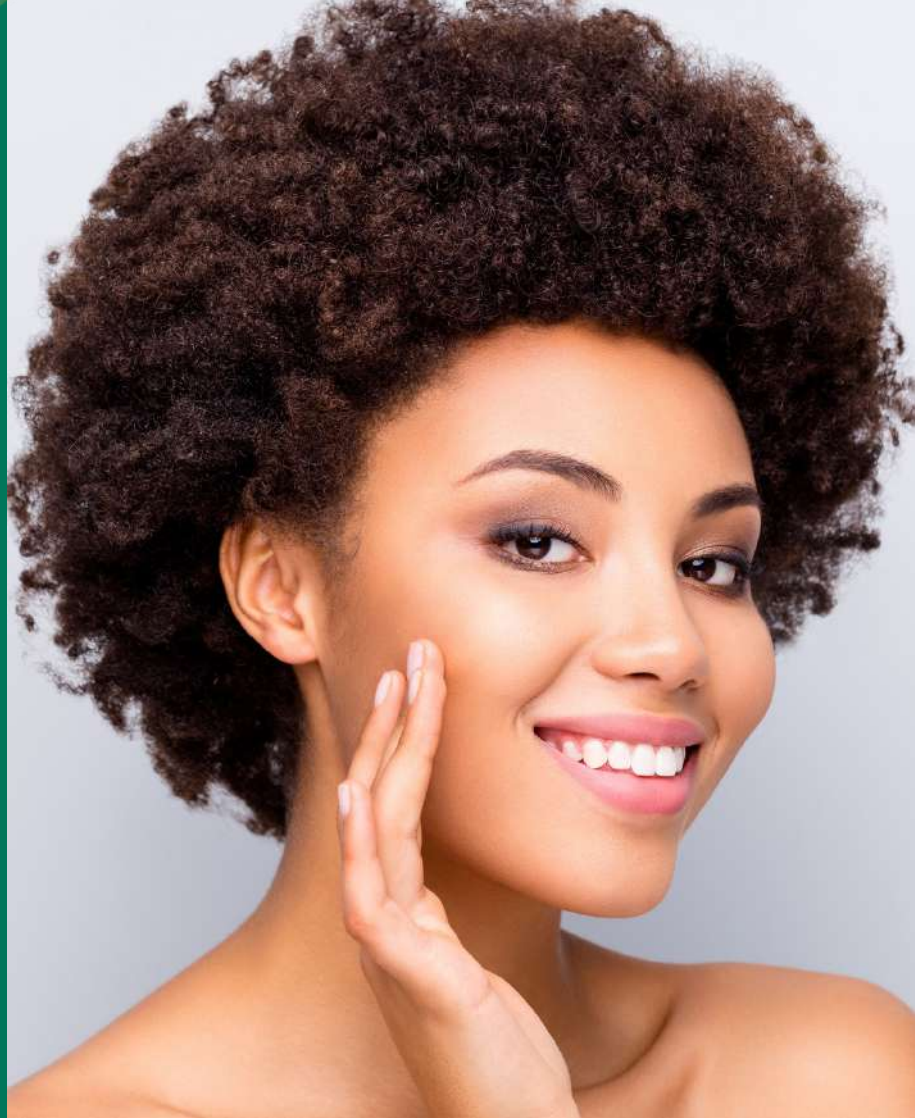


POLYMEREXPERT PRESENTS

ESTOGEL[®] MAX

The perfect oil rheology modifier

Formulation Guide 2023





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About

- INCI = Castor Oil/IPDI Copolymer, Caprylic/Capric Triglyceride, Hydrogenated Castor Oil/Sebacic Acid Copolymer
- Natural Origin Index = 0.94 (ISO16128)
- Processing temperature = 85°C
- China INCI compliant
- RSPO Certified

Presentation

EstoGel® Max is a concentrate of innovation. It is the perfect combination of two natural and high-performance oil gelling polymers. EstoGel® Max allows the formulation of oily gels over a wide range of viscosity from liquid to solid with excellent suspensive capacities. The network formed has the structure and rigidity of EstoGel® M and the flexibility and flowability of EstoGel® Green. This combination provides your oil phases with optimal compatibility and stability. Its easy processing at 85°C and the transparency of the derived products make this ingredient the ideal substitute for waxes and butters.



Technical advantage

Based on non-covalent interactions leading to a supramolecular assembly, the technology is the result of two patent families. Indeed, the gel formed is the result of perfectly organized entities held together by intermolecular forces. This organization allows to cover a wide range of viscosity from viscous liquid to solid with excellent mechanical properties and suspensive capacities. Unlike waxes and butters whose crystallinity makes the formulations opaque, the hydrogen bonding assemblies lead to perfectly transparent structures for a very wide range of oils of different polarity.

A concentrate of innovation

EstoGel® Max combines the advantages of EstoGel® M and EstoGel® Green. The presence of two different types of hydrogen bonds is the reason for the unique properties of this rheology modifier. In addition to the easy processing at 85°C, the mechanical properties combine rigidity and flexibility making this ingredient ideal for the elaboration of transparent solid sticks and more particularly lip products. The fragility of the hydrogen bonds during application allows a slippery application accompanied by a fine, delicate and silky sensory.



Revival Cream

A rich cream with a velvety feel that leaves a delicate sensory veil for regenerated skin.

PHASE	RAW MATERIAL	%
A	Demineralized Water	66.50
A	Preservatives	0.80
B	Glycerin	3.00
B	Xanthan Gum	0.20
C	EstoGel® Max	4.00
C	Caprylic/Capric Triglyceride	15.00
C	Ricinus Communis (Castor) Seed Oil	2.00
C	Macadamia Integrifolia Seed Oil	2.00
C	Montanov™ 68 MB	4.00
D	Gatuline® In-Tense MB	2.00
E	Parfum Beausoleil	0.50

Revival Cream



Process

- Add A in the main beaker
- Premix B and add it under stirring into A
- Heat up A+B to 80°C
- In a secondary beaker heat up C to 85°C and homogenize for 30 minutes
- Emulsify for 15 minutes
- Cool down to 30-35°C, add D then E

Benefits

- Rich texture with no greasy feel
- Emulsion stabilizer
- Velvety skin feel

Magic White

Oily micro-droplets that encapsulate a lightening active ingredient to fight against age spots.

PHASE	RAW MATERIAL	%
A	EstoGel® Max	3.00
A	Squalane	1.00
A	Caprylic/Capric Triglyceride	5.60
A	Pearls	0.40
B	Demineralized Water	77.30
B	Propanediol	5.00
B	Preservatives	0.60
B	Carbomer	0.18
C	Parfum Beausoleil	0.50
C	Bakuchiol	1.00
D	Glycerin	5.00
D	Xanthan Gum	0.20
E	NaOH (sol.10%)	0.22

Magic White



Process

- Heat up A to 85°C and homogenize for 30min
- Heat up B to 80°C under stirring
- Add C to A and stir at 250rpm for 10min
- Add C
- Cool down to 40°C
- Premix D and introduce it
- Cool down to 35°C and neutralized

Benefits

- Creation of oily micro-droplets
- Encapsulation technology to maximize the potency of active ingredients

Perles de Lavande

Night serum infused with lavender pearls to nourish the skin and deliver a soothing fragrance.

PHASE	RAW MATERIAL	%
A	EstoGel® Max	2.00
A	AlgaPur™	4.00
A	Ricinus Communis (Castor) Seed Oil	4.00
A	Violet 2 (sol. 1%)	0.13
A	Red (sol. 0.5%)	0.01
B	Demineralized Water	72.69
B	Phenoxyethanol	0.60
B	Glycerin	10.00
B	Covarine White WN 9787	0.20
B	Carbomer	0.30
C	Fragrance	0.50
D	Glycerin	5.00
D	Xanthan Gum	0.20
E	Sodium Xydroxide (sol. 10%)	0.37

This formula is presented for information only, as an illustration of the potential use of its ingredients in the light of our knowledge of them: it is subject to your assessment, particularly as regards the need for modifications, tests or controls. NO WARRANTY is given as to its suitability for your conditions of use, nor as to the use, merchantability or regulatory compliance of the resulting products, for which you remain solely responsible; it is also your responsibility to check that this formula and its use do not infringe any intellectual property rights.

Perles de Lavande



Process

- Heat up A to 85°C under stirring with high shear
- At 85°C, disperse the polymer for 30 minutes with high shear
- Add B in the main beaker and heat up at 80°C under stirring
- Add C to A and mix until the blend is uniform
- Add A+C to B stirring with a very low shear (around 200rpm) for 10 minutes
- Cool down slowly to 35°C
- Add a premix of Glycerin and Xanthan Gum
- Neutralize the Carbomer with E

Benefits

- Creation of oily micro-droplets
- Encapsulation technology to maximize the potency of active ingredients

Blue Microspheres Infused Serum

Ultra-fresh face jelly delicately infused with blue microspheres.

PHASE	RAW MATERIAL	%
A	EstoGel® Max	3.00
A	Squalane	1.00
A	Caprylic/Capric Triglyceride	5.50
A	Green (sol.5%)	0.50
B	Demineralized Water	77.33
B	Propanediol	5.00
B	Preservatives	0.60
B	Carbomer	0.18
C	Fragrance	0.50
D	Glycerin	5.00
D	Xanthan Gum	0.20
E	Sodium Xydroxide (sol.10%)	0.22

Blue Microspheres Infused Serum



Process

- Heat up A to 85°C under stirring with high shear
- At 85°C, disperse the polymer for 30 minutes with high shear
- Add B in the main beaker and heat up at 80°C under stirring
- Add C to A and mix until the blend is uniform
- Add A+C to B stirring with a very low shear (around 200rpm) for 10 minutes
- Cool down slowly to 35°C
- Add D and mix until the blend is uniform
- Neutralize the Carbomer with E

Benefits

- Creation of oily micro-droplets for an innovative texture
- Encapsulation technology to maximize the potency of active ingredients

Cleansing Balm-in-oil

Smooth, ultra-creamy anhydrous balm that melts into oil on application to gently remove make-up.

PHASE	RAW MATERIAL	%
A	EstoGel® Max	6.00
A	Caprylic/Capric Triglyceride	33.85
A	Ricinus Communis (Castor) Seed Oil	31.50
A	Isoamyl Laurate	10.00
B	Beeswax	9.00
C	Shea Butter	5.00
D	Polyglyceryl-2 Sesquinoleate	4.00
E	Paprika Bio Extractive®	0.15
E	Fragrance	0.50

Cleansing Balm-in-oil



Process

- Heat up A to 85°C under stirring
- At 85°C, disperse the polymer for 30 minutes with high shear
- Introduce B and stir until the blend is homogeneous
- Cool down to 65°C
- Add C and stir until the blend is homogeneous
- Add D and stir until the blend is homogeneous
- Add E and stir until the blend is homogeneous
- Pour into a jar at 65°C

Benefits

- Transformative texture that melts into an oil during application on the skin
- Very nice pick-up

Rouge Vinyle

An ultra-shiny lipstick without wax with an terribly melting application.

PHASE	RAW MATERIAL	%
A	EstoGel® Max	55.00
A	Ricinus Communis (Castor) Seed Oil (and) Red6	3.20
A	Ricinus Communis (Castor) Seed Oil (and) Red7	12.80
A	Caprylic/Capric Triglyceride	23.40
A	Corylus Avellana (Hazelnut) Seed Oil	5.00
B	Parfum Vanille Gourmande	0.60

Rouge Vinyle



Process

- Mix EstoGel® Max with the oils for 30 minutes at 85°C with a rotor stator
- Add the fragrance and homogenize
- Pour into a suitable mold

Benefits

- Solid lipstick without wax
- Melting and glide-on application
- Ultra shiny result on the lips

Whipped Foundation

A creamy anhydrous foundation with a very soft application.

PHASE	RAW MATERIAL	%
A	Caprylic/Capric Triglyceride	34.00
A	Ricinus Communis (Castor) Seed Oil	34.00
A	Coco-Caprylate Caprate	5.00
A	Unipure White LC987	8.87
A	Unipure Yellow LC182	0.75
A	Unipure Red LC381	0.29
A	Unipure Black LC989	0.09
B	EstoGel® Max	6.00
B	Oryza Sativa (Rice) Bran Wax	7.00
B	Polyhydroxy Stearic Acid	1.00
C	Satinier M5	2.50
D	Parfum Vanille Gourmande	0.50

Whipped Foundation



Process

- Blend together oils and pigments
- Add B, heat up to 85°C and homogenize for 30 minutes
- Cool to 80°C, add C and homogenize for 5 minutes
- Add D and stir for 5 minutes

Benefits

- Nice binder for a delicious texture
- Soft and silky on application

Bubble Blush

a super fresh blush with an innovative bubble shaped texture thanks to pigments encapsulation.

PHASE	RAW MATERIAL	%
A	EstoGel® Max	2.00
A	Pentaerythrityl Tetraisostearate	4.00
A	Caprylic/Capric Triglyceride	3.00
A	Titanium Dioxide	0.68
A	COD Red 6	0.064
A	COD Yellow 5	0.056
A	Pearls	0.20
B	Demineralized Water	78.34
B	Phenoxyethanol	0.60
B	Carbomer	0.30
C	Fragrance	0.50
D	Glycerin	10.00

Bubble Blush



Process

- Heat up A to 85°C under stirring with high shear
- At 85°C, disperse the polymer for 30 minutes with high shear
- Add B in the main beaker and heat up at 80°C under stirring
- Add C to A and mix until the blend is uniform
- Add A+C to B stirring with a very low shear (around 200rpm) for 10 minutes
- Cool down slowly to 35°C
- Add D and mix until the blend is uniform
- Neutralize the Carbomer with E

Benefits

- Creation of oily micro-droplets for an innovative texture
- Pigments encapsulation for a catchy effect

Clear Sunstick

Very high protection, perfectly transparent sun stick with an invisible finish on the skin.

PHASE	RAW MATERIAL	%
A	EstoGel® Max	50.00
A	Dibutyl Adipate	6.40
A	Diisopropyl Adipate	11.00
A	Dicaprylyl Carbonate	1.90
A	Octocrylene	9.00
A	Ethylhexyl Salicylate	4.50
A	Ethylhexyl Triazone	4.50
A	Diethylamino Hydroxybenzoyl Hexyl Benzoate	9.00
A	Bis-Etylhexyloxyphenol Methoxyphenyl Triazine	2.70
B	Parfum Monoi	1.00

Clear Sunstick



Process

- Heat up A to 85°C and homogenize for 30 minutes
- Cool down to 80°C
- Add B and mix for 5 minutes
- Pour into a suitable packaging

Benefits

- Transparent stick easy to formulate (85°C)
- Sensorial and delicate touch on skin

Hair Serum « Perfect Drop »

Slightly gelled hair serum which delivers "a perfect drop" that stays in shape on the skin.

PHASE	RAW MATERIAL	%
A	EstoGel® Max	1.30
A	Coco-Caprylate/Caprato	25.00
A	Caprylic/Capric Triglyceride	12.93
A	Isopropyl Palmitate	25.00
A	Vitis Vinifera Seed Oil	28.00
A	Ricinus Communis (Castor) Seed Oil	5.00
B	Carapa Procera Seed Oil	2.00
C	Fragrance	0.60
D	Colorants	0.17

Hair Serum « Perfect Drop »



Process

- Heat up A to 85°C under stirring with high shear
- At 85°C, disperse the polymer for 30 minutes with high shear
- Cool down slowly to 30°C
- Add B then C and mix slowly until the blend is uniform

Benefits

- Ideal for creating oily gels in dropper applications
- Perfect shape of the drop

Bubble Fragrance

Micro-encapsulated fragrance that reveals itself immediately on application to the skin.

PHASE	RAW MATERIAL	%
A	EstoGel® Max	3.00
A	Caprylic/Capric Triglyceride	2.00
B	Fragrance	5.00
C	Demineralized Water	78.80
C	Phenoxyethanol	0.60
C	Carbomer	0.18
D	Glycerin	10.00
D	Xanthan Gum	0.20
E	Sodium Xydroxide (sol .10%)	0.22

Bubble Fragrance



Process

- Heat up A to 90°C under stirring with high shear
- At 90°C, disperse the polymer for 30 minutes with high shear
- Cool down to 80°C
- Add B to A and mix well
- Add C into the main beaker and swell the carbomer
- Add A+B to C stirring with a low shear (around 500rpm) for 10 minutes
- Prepare D, premixing xanthan gum into glycerin
- Add D and mix until the blend is uniform
- Neutralize the carbomer with E

Benefits

- Creation of oily micro-droplets for an innovative texture
- Fragrance encapsulation for long lasting effect

Oriental Flowers

Dry oil with petals and pearls levitating

PHASE	RAW MATERIAL	%
A	EstoGel® Max	1.25
A	Caprylic/Capric Triglyceride	11.35
A	Coco-Caprylate Caprate	25.00
A	Isopropyl Palmitate	25.00
A	Vitis Vinifera (Grape) Seed Oil	32.00
B	Ricinus Communis (Castor) Seed Oil	5.00
C	Petals	0.17
C	Sunshine Ultra Glitter Golden	0.03
D	Parfum Beausoleil	0.40

Oriental Flowers



Process

- Heat up A to 85°C and homogenize for 30 minutes
- Cool down to 80°C
- Add B and stir for 5 minutes
- Cool down to 30-35°C under stirring
- Add C then D and blend it

Benefits

- Excellent suspending properties for a catchy visual effect
- A slightly gelled oil with a luxurious enveloping touch

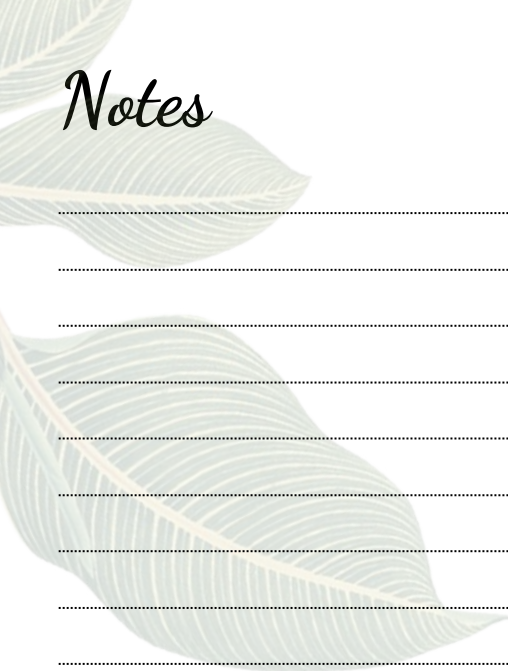
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