

IEMUL CRYSTAL

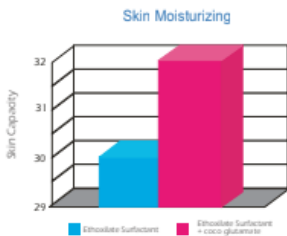
Liquid Crystal Lamellar Structure Former and 100% E.O. free Emulsifying Base



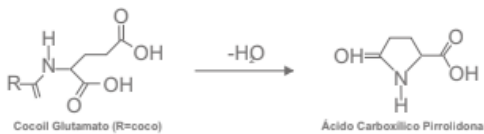
Properties

“MOISTURE BOOSTER” EFFECT

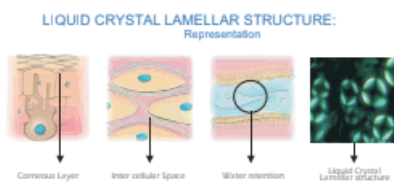
STEP 1 Trans-epidermic water loss reduction The damages created by many common EO (ethylene oxide) derived emulsifiers to the lipid barrier are well known and they lead to increase TEWL and may create sensitization by emulsifying the epidermal liquid barrier. Cocoyl glutamate reduces the skin absorption of common EO derived from surfactants like SLES and increases skin moisturizing.



STEP 2 PCA (pirolidone carboxylic acid) Precursor The cocoyl glutamate is an emulsifying agent and a precursor of PCA biosynthesis (main component of the natural moisturizing of the skin). Therefore, iEmul CRYSTAL, is a physiological moisturizing. PCA has a high level of water retention and it acts as a powerful humectant. Moreover it forms a protecting film to avoid skin dryness and dehydration.



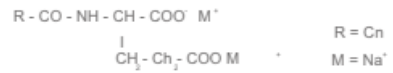
STEP 3 Liquid Crystal Lamellar Structure iEmul CRYSTAL is a self-emulsifier base with liquid forming properties. The presence of oils and lipids of different polarities or viscosities, even in high percentage does not cause stability problems. Another important property is that it produces emulsions with a liquid crystal structure, leading to a superior stability.



pH ADJUSTER

THE SKIN BALANCE

Another important property is its capacity to act as pH ADJUSTER, owe to the presence of acidic groups in the cocoyl glutamate molecule.



It maintains the skin pH at a physiological level bringing the skin to an adequate pH. This exclusive property is granting the efficiency of its global action offering the suitable moisturizing treatment to maintain a healthy and balanced skin.

CONCLUSION

iEmul CRYSTAL is an auto-emulsifier base, which possesses special properties such as 100% free from ethoxilated byproducts and its capacity to restore the hydric balance on all skin types.





SUGGESTED FORMULAS

TREATMENT CREAM FOR TIRED LEGS No

INGREDIENT	%w/w
1 D. I. WATER	a 100
2 iEmul CRYSTAL (glyceryl stearate, cetearyl alcohol, stearic acid, sodium cocoyl glutamate)	2.50
3 RHEOCARE ATC (acrylamide sodium acrylate copolymer paraffinium liquid, trideceth 6)	2.00
4 MINERAL OIL (mineral oil)	1.00
5 IPM(isopropyl myristate)	1.00
6 GLYCERINE (glycerine)	1.00
7 VENOXYL (arruda extract, ginkgo biloba extract, chestnut extract)	5.00
8 PROQUITON CG (5-chlore-2 methyl-4-isothiazolin-3-one, 2-methyl-4-isothiazolin-3-one)	0.10
9 FRAGRANCE	c.s

PROCEDURE:

Heat #1 to 80-85oC, heat #2 to the same temperature. Add #2 into #1 with constant agitation, leave with agitation until complete dispersion. Add the rest of ingredients, except #3, slowly allowing complete homogenization after each addition. Cool to room temperature and add #3 slowly with gently agitation until the cream formation.



DAY CREAM

No	INGREDIENT	%w/w
1	D. I. WATER	a100
2	iEmul CRYSTAL (glyceryl stearate, cetearyl alcohol, stearic acid, sodium cocoyl glutamate)	8.00
3	RHEOCARE ATC (acrylamide sodium acrylate copolymer paraffinium liquid, trideceth 6)	1.00
4	PROQUIEMULSHEA (PEG-23 sheabuterate) PROQUISHEA (shea butter)	3.00
5	MINERAL OIL (mineral oil)	1.00
6	LAB(lanolin alcohol, parafinum liquidum, octyl dodecanol)	2.00
7	PROSUN OMC(octyl p-methoxycinnamate)	3.00
8	DENSISKIN (hydrolized marine collagen, silantriol, glutanylamidoethyl imidazone, fructosse aligossacharides, prophyridium cruentum extract)	3.00
9	SALINIP (methyl propyl ethyl butyl isobutyl paraben, phenoxyethanol)	2.00
10	FRAGRANCE	0.60
		c.s.

PROCEDURE:

Heat #1 to 80-85oC, heat #2 to the same temperature. Add #2 into #1 with constant agitation, leave with agitation until complete dispersion. Add the rest of ingredients, except #3, slowly allowing complete homogenization after each addition. Cool to room temperature and add #3 slowly with gently agitation until the cream formation.





Application

- iEMUL CRYSTAL is a liquid crystal lamellar structure emulsifying base 100% free from ethoxylated byproducts. The key component is cocoyl glutamate, a safe and natural aminoacid derivative. This product has several special properties:

- **Physiologic moisturizing**, this is the only product on the market that offers an active principle to moisture the skin
- **Compatible with the skin and the mucosus**
- **Non irritant**
- **Ethilen oxide free**
- **Obtained from vegetal raw material**
- **pH adjuster of the skin and the lipidic barrier**
- **Easy to manipulate and has a high stability**



Technical data

1. Product information

Appearance	Wax
Color	Light yellow
Active substance	98% min.
Melting Point	55-56 C

2. Formulation instruction

Recommended dosage	2 - 20%
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