



COLA[®]MOIST 300P

POLYMERIC HUMECTANT & MOISTURIZER

INCI: POLYQUATERNIUM - 71

benefits

- Extremely hygroscopic and imparts a pleasant moist feeling to skin and hair.
- Increases softness and elasticity of skin and hair.
- Even in high concentrations, it is safe to skin and to the eye
- Nearly Odorless and Colorless
- Stable at a broad range of temperatures and pH's.
- Compatible with anionic, cationic and nonionic ingredients.
- Easy to formulate into all types of emulsions.



description

Colonial Chemical has been conducting research and development efforts toward the invention of new and improved humectants, useful as non-occlusive moisturizers for personal care products.

There are a number of humectants in the marketplace that attract moisture at high humidity levels, but a need has long existed for enhanced performance under severely dry, low humidity conditions.

Cola[®]Moist 300P is a polymeric, highly ionized water-soluble compound that enhances water-binding structures. It is hygroscopic at all humidities, attracting and binding water extremely effectively, and provides a higher humidity protective gradient to enhance moisturization on both skin and hair. Its hydrating properties limit water evaporation and serve to retain moisture. Its performance benefits are due to both strong ionic binding and hydrogen bonding within the humectant film matrix.

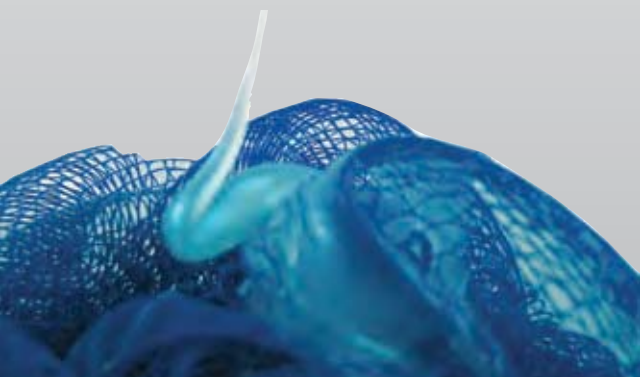
Cola[®]Moist 300P is safe and non-irritating and can be easily formulated into a wide array of cosmetic rinse off products, such as shampoos, conditioners and body washes. It will keep the skin moist, without leaving a tacky feeling.

Cola[®]Moist 300P allows a formulator to eliminate or to use decreased amounts of glycerin while retaining glycerine's special humectancy, thus minimizing the disadvantages often encountered when formulating with high levels of glycerine.

Cola[®]Moist 300P is polymeric and globally accepted.

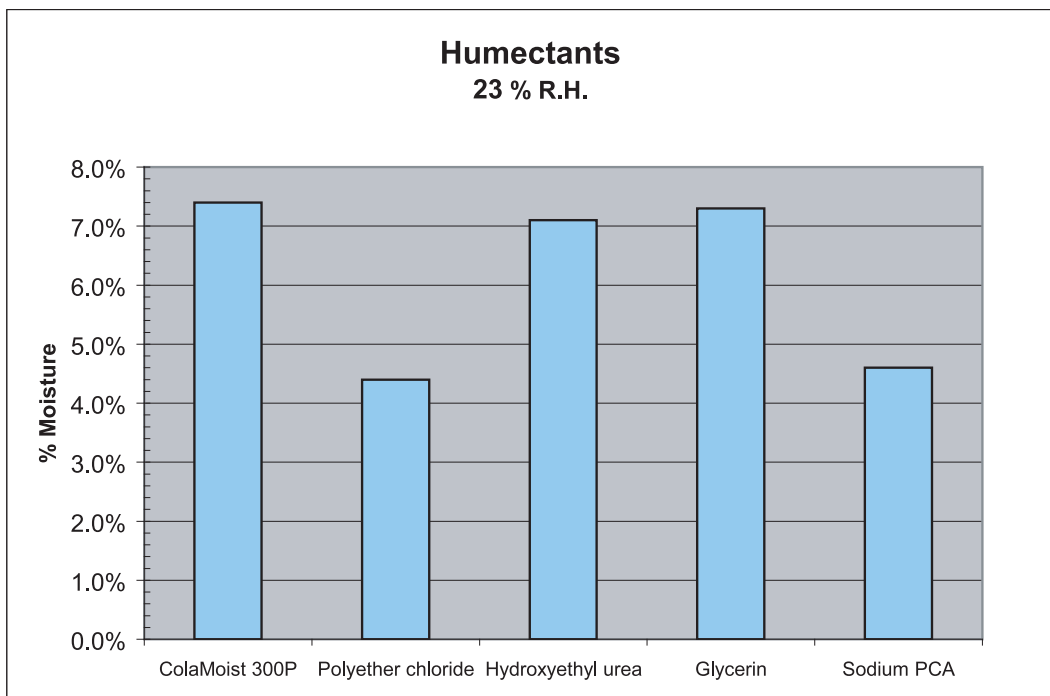
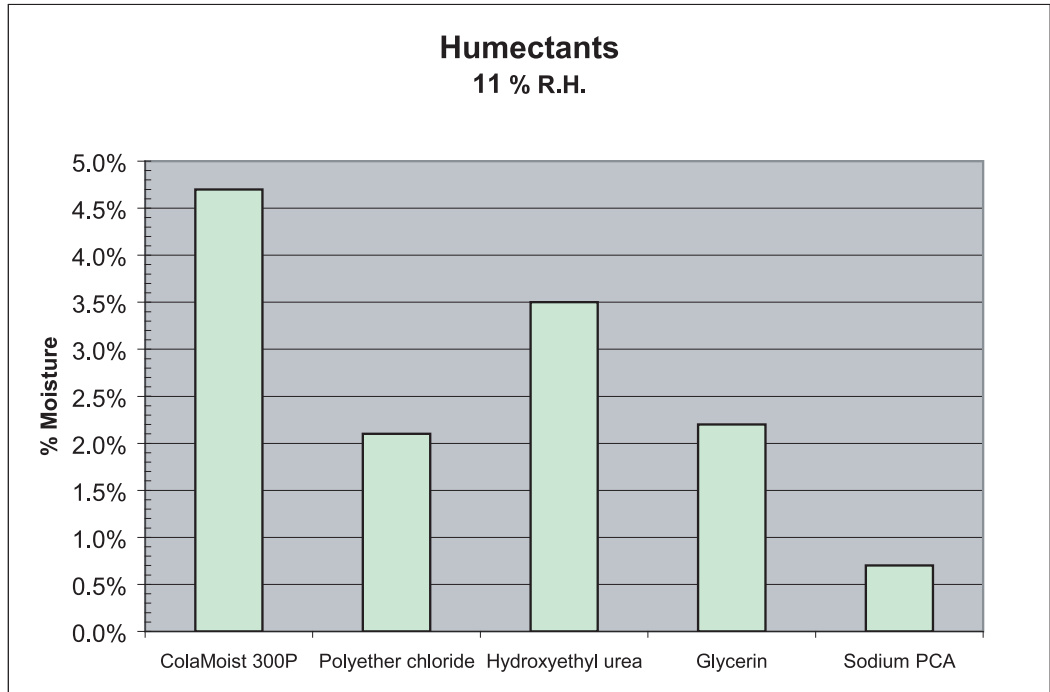
applications

- Skin Care Products: creams, lotions, and shower gels
- Hair Care Products: shampoos, conditioners, hair tonics, hair creams, styling products, etc.
- Sun Care Products: pre and post sun care creams and lotions
- Make-up Products: foundations, lipsticks, lip balms, etc.



moisturization

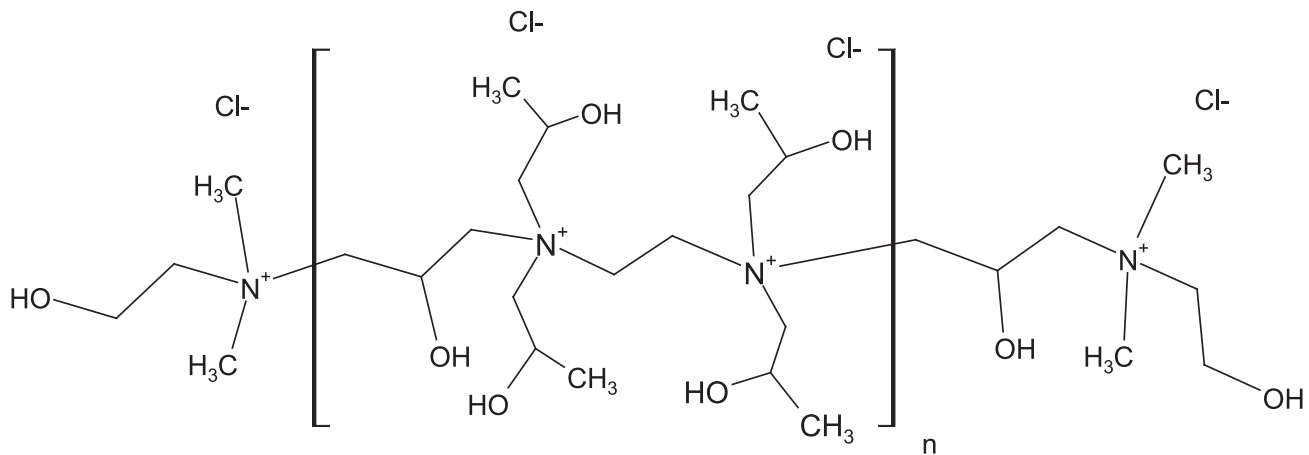
A series of tests were run comparing **Cola[®]Moist 300P** with well-known humectants and moisturizers. **Cola[®]Moist 300P** showed superiority over a selection of polyether chloride, hydroxyethyl urea, glycerin, and sodium pyroglutamate (sodium PCA), tested at humidity levels of 11% and 23%. In addition, **Cola[®]Moist 300P** showed moisturization at higher levels of humidity as well. **Cola[®]Moist 300P** represents a breakthrough in moisturization for skin care products intended for use in humidity levels where available moisture in the air will be low. This is particularly useful to formulators who are working on moisturizers for use in winter applications or for use in dry climates.



Eye

Cola®Moist 300P was tested for eye irritation using the chorioallantoic membrane technique (HET-CAM). Cola®Moist 300P received a score of 1.5, indicating the product is non-irritating to the human eye.

structure



properties of Cola®Moist 300P



Color, Gardner	4 MAX
pH (10% aqueous)	6.5 – 9.5
Solids, %	65.0 – 70.0



f o r m u l a t i o n s

replenishing creme rinse

COMPOUND	Wt. %
Water	86.30
Hydroxyethyl Cellulose	0.70
Glycol Distearate	2.00
Cola®Moist 300P	1.50
Cetearyl Alcohol	2.50
Cola®Quat HRC	6.70
Cola®Lipid SAFL	0.30
TOTAL	100.00

PROCEDURE:

Charge water. Carefully add hydroxyethyl cellulose with good agitation. Heat to 50 – 60°C and add remaining ingredients and continue heating to 70°C. Cool to 45°C and adjust pH to 4.5 to 5.0. Add color, fragrance and preservative as required. Continue agitation and cooling until pearl develops.



frequent use liquid hand soap

An extremely mild hand soap for use on compromised skin conditions. Monolaurin, in combination with the anionics, provides effective cleansing in a high foaming liquid soap that rinses easily leaving a silky after-feel.



COMPOUND	Wt.%
Water	71.60
Colonial ALES-60	10.00
Hamposyl L-30	10.00
Cola®Mid AL	3.00
Cola®Moist 300P	2.50
Colonial Monolaurin	2.00
Liquipar PE	0.20
Versene 100	0.50
Fragrance	0.20
TOTAL	100.00

Appearance: Clear Viscous Liquid
 pH (10% in Water): 7.0 with Citric Acid
 Activity: 14%

PROCEDURE:

Heat water and Colonial Monolaurin with stirring until uniform. Add remaining ingredients in order given with continued stirring. When homogeneous, cool to room temperature using slow sweep agitation.

moisturizing facial creme

COMPOUND	Wt. %
Phase A. Water	79.25
Cola®Lipid ST	3.00
Steareth-20	0.45
Cola®Moist 300P	4.00
Phase B. Steareth-2	0.80
Cetearyl alcohol	3.50
Myristyl myristate	3.50
C12-15 alcohol benzoates	2.50
Hexyl laurate	2.00
Dimethicone 100 cs.	1.00
TOTAL	100.00

PROCEDURE:

Prepare each phase separately with sufficient heat and stirring until both phases are uniform. Homogenize Phase B into Phase A. Stir-cool to about 40°C, add fragrance, color, and preservative as needed.



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