



Cola[®] Moist 200C

CTFA/INCI: Hydroxypropyl Bis-Hydroxyethyltrimonium Chloride
Patent Pending

DESCRIPTION

Cola[®] Moist 200C is a solid, anhydrous form of a highly ionized water-soluble compound that enhances water-bounding structures. It is highly hygroscopic at all humidities, attracting and binding water extremely effectively, and provides a higher humidity protective gradient on both skin and hair, to enhance moisturization. It functions as an osmoregulator to prevent dehydration. Its powerful hydrating properties limit water evaporation and serve to retain moisture. Its performance benefits are due both to strong ionic binding and hydrogen bonding within the hydrated deposited humectant film matrix.

Cola[®] Moist 200C has stronger hydrating power than that of glycerin. It is non-greasy, water soluble, non-staining, does not clog pores, does not interfere with normal skin respiration and will not cause drag on product rub-out. **Cola[®] Moist 200C** is an important functional ingredient with many desired properties for the formulator.

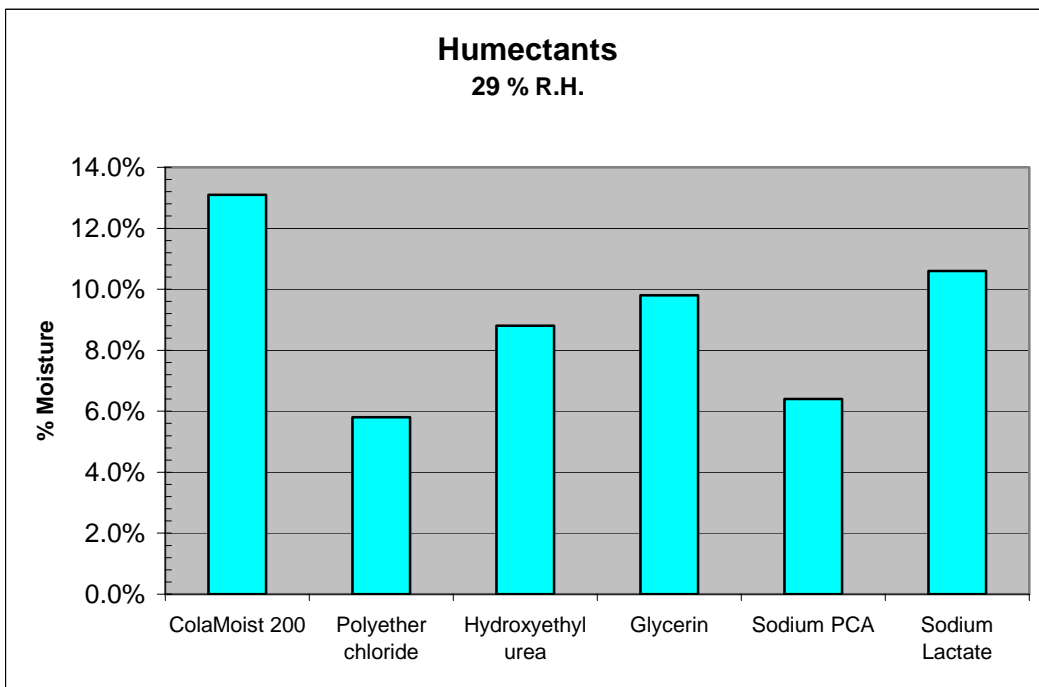
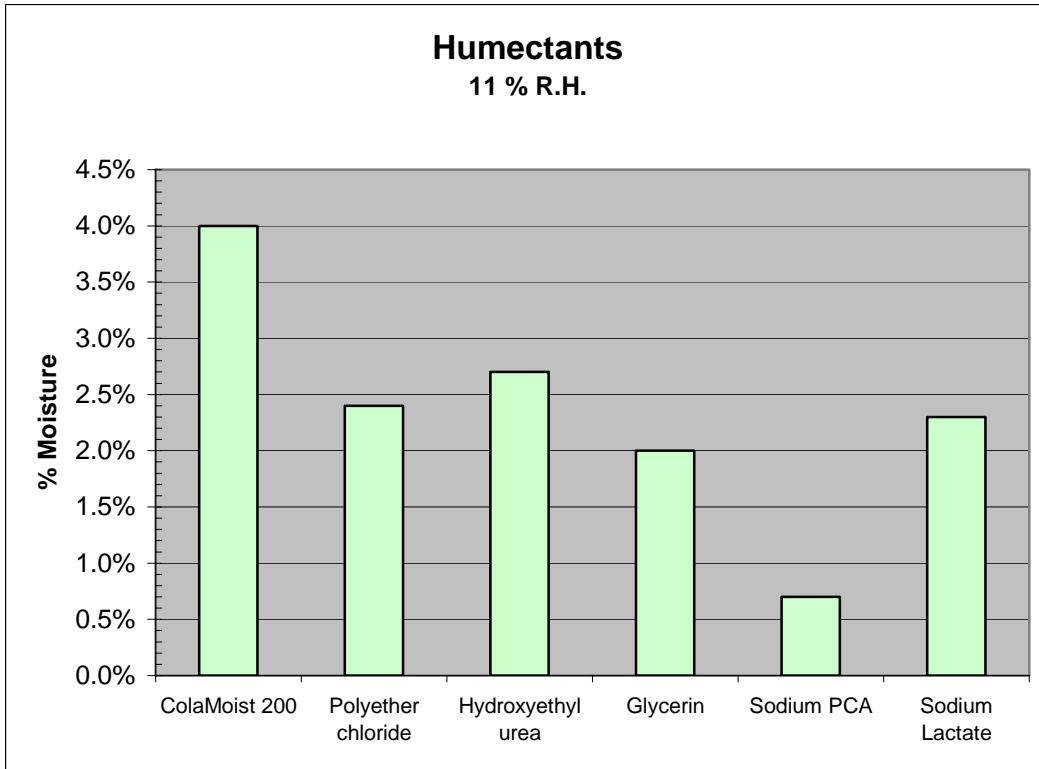
Look for the following benefits from **Cola[®] Moist 200C**:

- Extremely hygroscopic and imparts a pleasant moist feeling to skin
- Increases softness and elasticity of skin.
- Even in high concentrations, it is safe to skin and safe for 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 oil in water emulsion and water in oil emulsions.

Cola[®] Moist 200C has been tested and is a safe material when used in combination with other personal care raw materials.

MOISTURIZATION

In order to test the effectiveness of **Cola[®] Moist 200C**, a series of tests were run comparing **Cola[®] Moist 200C** with well-known humectants and moisturizers. A selection of polyether chloride, hydroxyethyl urea, glycerin, sodium pyroglutamate (sodium PCA) and sodium lactate were all tested at various humidity levels in a humidity cabinet.

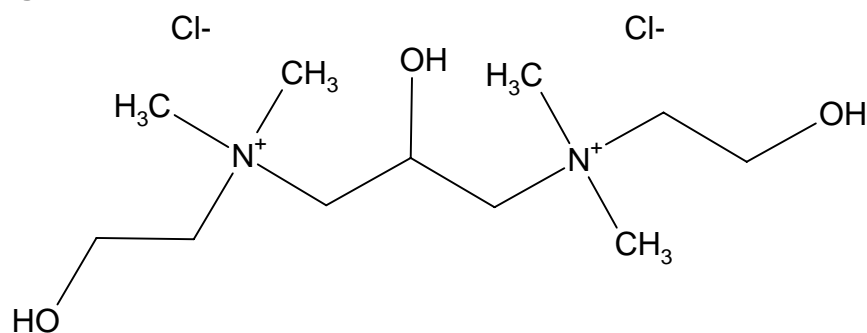


TYPICAL PROPERTIES

Color, Gardner
pH (10% active)
Activity, %

3 MAX
5 - 7
> 95.0

STRUCTURE



EYE

Cola[®]Moist 200C was tested for eye irritation using the chorioallantois membrane technique (HET-CAM). **Cola[®]Moist 200C** received a very low score indicating the product is non-irritating to the human eye.

SKIN

To evaluate the potential irritation to skin, a study was performed adhering to ICH Guideline E6 and 21 CFR parts 50 and 56. Fifty-Two (52) volunteers, males and females, ranging in age from 16 to 77 were subjected to a "patch test". The "patch test" was performed with the **Cola[®]Moist 200C** diluted to 5.0 % activity. A 3/4" X 3/4" absorbent pad was moistened with 0.2 ml of liquid and applied to the backs of the subjects between the scapulae. The patch sites were inspected at 48 hours for gross changes. It was observed that there was a complete absence of skin change. The test sites were evaluated again at 72 hours. Once again the observation was negative skin changes. Under the conditions of this test, **Cola[®]Moist 200C** did not indicate a potential for dermal irritation. Colonial Chemical does not animal test.

APPLICATIONS

Because **Cola[®]Moist 200C** has excellent moisturizing effects and safety to skin, this product is especially useful as a humectant for cosmetics and toiletries. **Cola[®]Moist 200C** is best utilized in leave-on products.

- Make-up Products: foundations,
- Lipsticks, lip pencils and lip care products.
- Health Care

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WARRANTY

Colonial Chemical guarantees that its products meet published specifications. No other warranties or guarantees are expressed or implied because the use of this material is beyond the control of Colonial Chemical.

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