



Cola[®]Moist 200

Humectant and Moisturizer

INCI NAME Hydroxypropyl Bis-Hydroxyethyltrimonium Chloride
CAS NUMBER 110528-94-4
LISTINGS TSCA, NDSL, REACH (in process), NICNAS (in process)



Cola[®]Moist 200 is a highly ionized water soluble compound that enhances water bonding 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. Cola[®]Moist 200 functions as an osmoregulator to prevent dehydration and its powerful hydrating properties limit water evaporation and retain moisture. Cola[®]Moist 200 is an important functional ingredient with many desired properties with both strong ionic bonding and hydrogen bonding within the hydrated deposited humectant film matrix.

BENEFITS

- Safe and non-irritating in all concentrations.
- Increases softness and elasticity of skin and hair without a tacky feeling.
- Non-greasy, water-soluble, non-staining, and does not clog pores
- Won't interfere with normal skin respiration or cause drag on product rub-out
- Mild pleasant odor, very light color.
- Stable at a broad range of temperatures and pH levels.
- Compatible with anionic, cationic and non-ionic ingredients.
- Stronger hydrating power than glycerin
- Easy formulation into many emulsion products.

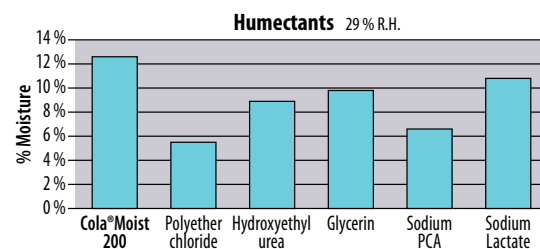
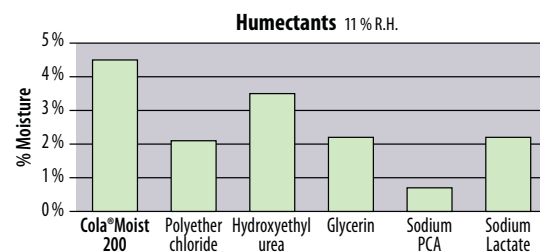
APPLICATIONS

- Skin care products, creams, lotions, tonics, shower gels, sun care lotions
- Make-up products, foundations, lipsticks
- Shampoos, conditioners, hair tonics, creams
- Health care lotions and other products



MOISTURIZATION

Cola[®]Moist 200 showed superior results over comparative products at humidity levels of 11% and 29% while also providing excellent moisturization at higher levels of humidity as well. Cola[®]Moist 200 is beneficial for moisturization in skin care products intended for use in dry or freezing climates.



TOXICITY

Eye Irritation

HET-CAM - Hen's Egg Test Chorioallantoic Membrane Test (2.5% active solution)

- Practically no ocular irritation potential in vivo, score of **2.5**



Acute Skin Irritation

48 Hour Occlusive skin patch test on 53 Test Subjects (5.0% active solution)

- 53/53 showed no visible skin reaction (0)
- No potential for dermal irritation

Bacteria Mutation

Ames test - in vitro method of checking for mutagenetic behavior (5.0% active solution)

- No detectable genotoxic activity

FORMULATION *Replenishing Creme Rinse*

INGREDIENT	%
1 Water	qs to 100.00
2 Hydroxyethyl Cellulose	0.70
3 Glycol Distearate	2.00
4 Cola®Moist 200	1.50
5 Cetearyl Alcohol	2.50
6 Cola®Quat HRC	6.70
7 Cola®Lipid SAFL	.30

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.

FORMULATION *Hand and Body Lotion*

This is a superior formulation for enhanced moisturizing in after-bath use on traditionally dry areas such as hands, elbows and shoulders. Cola®Moist 200 & Cola®Lipid SAFL are strongly substantive toward skin and the formula offers a pleasant, non-greasy after feel.

INGREDIENT	%
I Water	qs to 100.00
Cola®Moist 200	2.00
Cola®Lipid SAFL	4.00
II Steareth-2	2.00
Light Mineral Oil	4.00
Cetearyl Alcohol	3.00
Octyldodecyl Myristate	2.50
Dimethicone 100cs	1.50

Procedure:

Combine ingredients for Part I and II separately and heat to 65°C. Homogenize Part II into I with continued heating until sufficiently mixed. Cool to 40°C while stirring. Add fragrance, color and preservative as needed.

FORMULATION *Moisturizing Sulfate-Free Body Wash*

INGREDIENT	%
1 Water	qs to 100.00
2 Suga®Nate 160NC	23.50
3 Cocoyl Taurate	12.00
4 Cola®Teric LMB	11.00
5 Cola®Mate DSLS	7.80
6 Cola®Moist 200	3.00
7 Suga®Quat L1010	2.00
8 Fragrance	.20

Procedure:

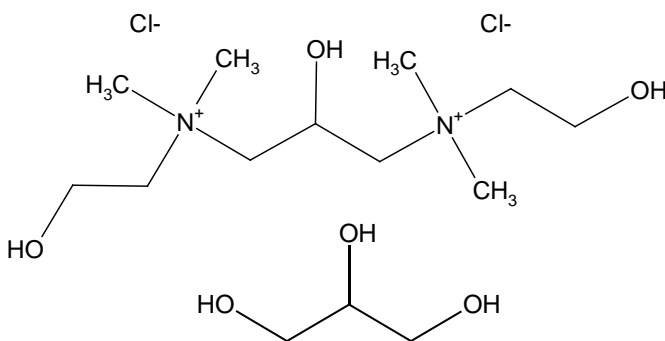
Heat water and Suga®Nate 160NC with stirring until uniform. Add remaining ingredients in order given with continued stirring. When homogeneous, cool using slow sweep agitation.



TYPICAL PROPERTIES

Appearance, 25°C	Clear Liquid
pH, 10% aqueous	5.0 – 7.0
Solids, %	65.0 – 75.0
Color, Gardner '98	4 Max.

STRUCTURE



STORAGE / HANDLING

It is recommended that Cola®Moist 200 be stored in sealed containers at temperatures not exceeding 120°F (49°C). Cola®Moist 200 is shipped in 55 gallon open-head poly drums (net weight 450 lb/204 kg). Typical shelf life is 12 months from date of manufacture. Safety Data Sheets may be found at www.colonialchem.com.



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Natural Surfactants