



# COLA<sup>®</sup>MATE SI

CTFA/INCI NAME: Disodium PEG-12 Dimethicone Sulfosuccinate  
CAS #157090-37-4

TSCA: Not listed, EINECS/REACH: Polymer Exempt

## benefits

- Low skin and eye irritation properties
- Long lasting rich, dense foam
- Silicone like after-feel
- Light color with mild odor
- Mitigates irritation of harsh anionic

## applications

- Mild Shampoos
- Detangler
- Mild Bubble Baths
- Facial Cleansers
- Anti-acne Formulations



## introduction

Cola<sup>®</sup>Mate SI is an extra mild sulfosuccinate surfactant derived from water-soluble silicone copolymer. Cola<sup>®</sup>Mate SI is useful in non-irritating skin cleansing and specialty applications. Cola<sup>®</sup>Mate SI imparts foam that is easily rinsed and reduces the irritation of other anionics when formulated together. Cola<sup>®</sup>Mate SI is significantly milder than SLS, SLES-2 and Sodium Cocoyl Glutamate. In facial cleansing this mild character will reduce the irritation coming from harsh anionic surfactants.

## typical properties

Appearance at 25°C:	Clear, liquid
Solids, %:	49.0-51.0
Color (APHA):	400 Max.
pH (as is):	5.0-7.0
Draves Wetting, 1% Active:	1.06 sec
Ross Miles Foam Test, 1% Active	
Immediate:	125 mm
1 minute:	120 mm
5 minutes:	110 mm



## storage & handling

Cola<sup>®</sup>Mate SI is subject to hydrolysis. This hydrolysis is temperature sensitive, particularly at temperatures above 30°C. Storage or handling temperatures above 40°C are not recommended and will result in rapid hydrolysis. This material may become hazy and some precipitate may form if chilled during shipping. Gentle warming (at 30-40°C) with mixing should return the material to a clear solution. If the material will not return to clear, it should not be used.

## shelf life

Shelf life is 12-months from date of manufacture.

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

## exceptionally mild, anti-acne facial cleanser

COMPOUND	Wt. %
Water	60.20
Cola <sup>®</sup> Mate SI	22.00
Cola <sup>®</sup> Monolaurin	5.90
Benzoyl Peroxide	5.30
Cetyl Palmitate	3.90
Cola <sup>®</sup> Moist 300P	2.20
Xanthan Gum	0.50
<b>TOTAL</b>	<b>100.00</b>
Appearance:	White, opaque emulsion
Viscosity, cps:	8,750
pH, (10% aqueous):	4.3
Solids, %:	28.1

### PROCEDURE:

Charge water and heat to 55-60°C. Add the Xanthan Gum and stir rapidly to wet out the powder. Add the other ingredients in the order listed with constant mixing. Mix well after each addition until the batch is homogenous. Add fragrance and preservative as needed.



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#### WARRANTY

No warranties beyond the guarantee that Colonial Chemical products are manufactured to specs are expressed or implied, since the use of material is beyond our control.

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