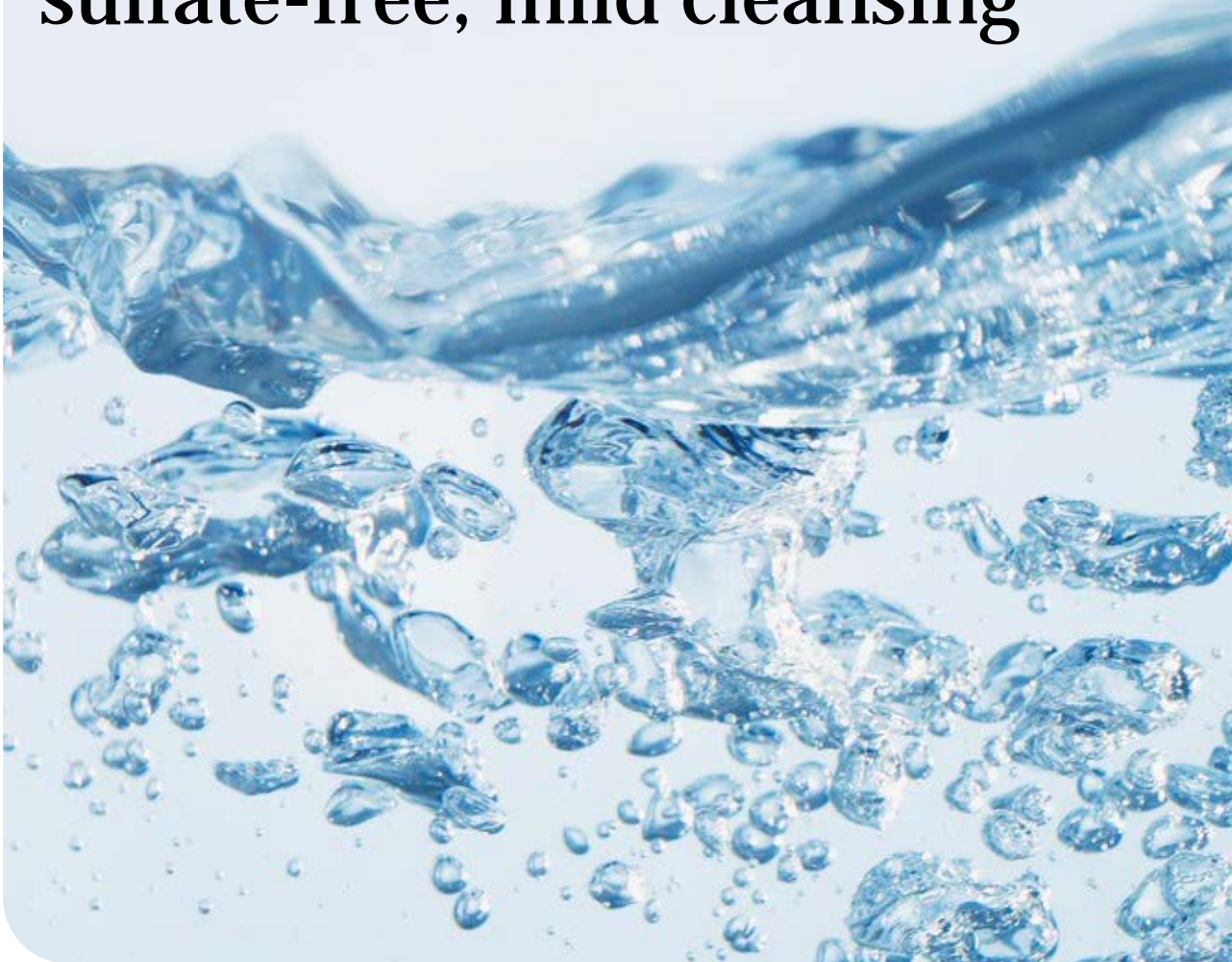


Clariant Surfactants: A versatile portfolio for sulfate-free, mild cleansing

CLARIANT



Public

Industrial Consumer Specialties
Consumer Care
14.01.2016

what is precious to you?

Table of Contents

- **Why Sulfate-free, Mild Surfactants?**
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 - Sulfate-free shampoo
 - Sulfate-free cleansing bars
 - Formulation versatility from one surfactant
 - Cold processability
 - High efficiency foam boosting
 - Foaming in the presence of high oil loads
 - Enhancing formulation mildness
 - Improved rinsability
 - Improved cationic conditioning polymer deposition

Why “Sulfate-Free”?

Consumers relate Sodium (or Ammonium) Lauryl Sulfate and Sodium (or Ammonium) Laureth Sulfate to:

Cheap detergents

Harshness

Dryness

Color fade

Irritant

Allergy

Scalp damage



As a direct consequence, consumers relate sulfate-free products to:

Natural

Gentle

Luxury

Color protection

Health

Hydration

Care

Mild



Why Mild Surfactants?

Whether using a sulfate base or sulfate-free base, many consumer “negatives” and “positives” are related to surfactant mildness

Cheap detergents

Harshness

Dryness

Color fade

Irritant

Allergy

Scalp damage



Natural

Gentle

Luxury


Color protection

Health

Hydration

Care

Mild



Range of Sulfate-free, Mild Surfactants for Every Application

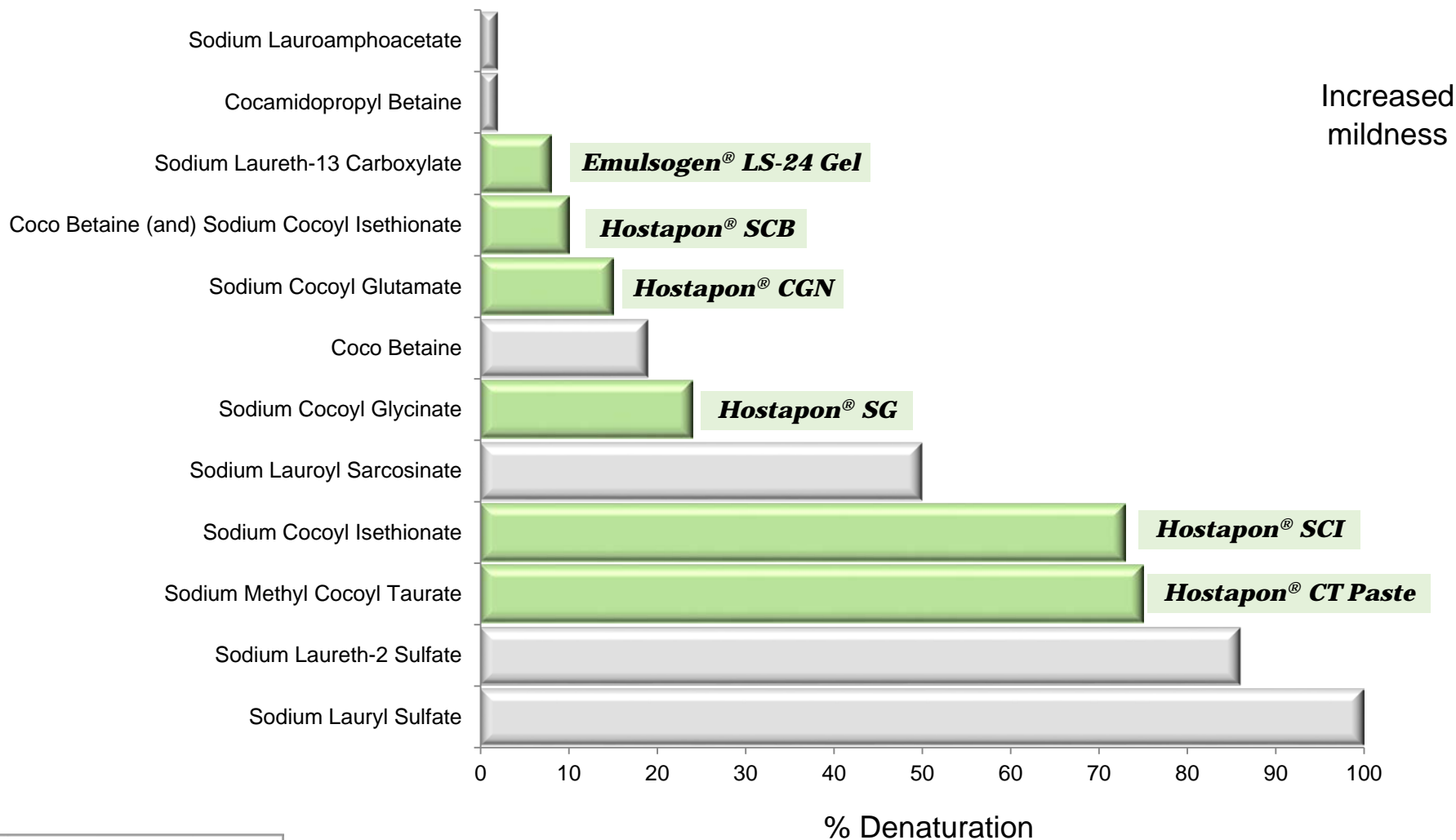
- Primary or co-surfactants with exceptional performance
 - Hostapon® SCI: *Sodium Cocoyl Isethionate*
 - Hostapon® SCB: *Coco-betaine (and) Sodium Cocoyl Isethionate*
 - Hostapon® SG: *Sodium Cocoyl Glycinate*

- Co-surfactants with unique benefits
 - Hostapon® CT Paste: *Sodium Methyl Cocoyl Taurate*
 - Hostapon® CT Liq : *Sodium Methyl Cocoyl Taurate*
 - Hostapon® CGN: *Sodium Cocoyl Glutamate*
 - Emulsogen® LS-24 Gel: *Sodium Laureth-13 Carboxylate*

Clariant Surfactants Break the Traditional Mildness – Performance Paradigm



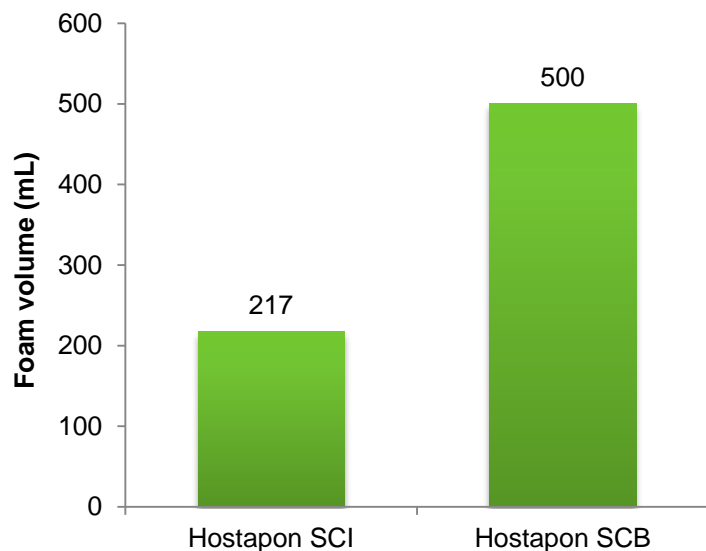
Clariant Surfactants provide Enhanced Mildness



Red Blood Cell Test, pH 7-8

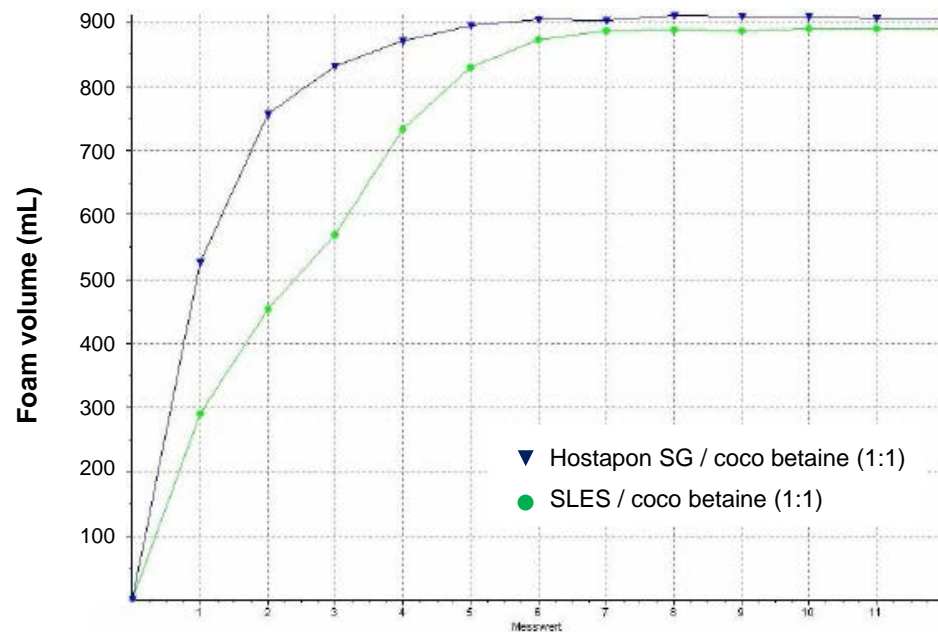
Primary Sulfate-Free Surfactants provide High Foaming with Luxury Foam Textures

Hostapon® SCI & Hostapon® SCB



Cylinder Shake Test (0.1% a.m. surfactant in DI water, 25°C, pH 7)

Hostapon® SG



Sita Foam Test (1.0% a.m. surfactant in DI water, 37°C, pH 6)

Topics of Interest

Sulfate-free shampoos

Sulfate-free cleansing bars

High efficiency foam boosting

Foaming in the presence of high oil loads

Enhancing formulation mildness

Improved rinsability

Cold processability

Formulation versatility from one surfactant

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SULFATE-FREE SHAMPOOS

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what is precious to you?

Hostapon® SG

High Performance Sulfate-Free, Mild Shampoos

Ultra Mild Shampoo

BI 1169

*Mild surfactant blend makes shampoo ideal for color retention and sensitive scalp claims
High performance for everyday use shampoos*

A	Octopirox® <i>Piroctone Olamine</i>	0.10 %
	Water	ad 100 %
B	Sorbitol	1.00 %
C	Hostapon® SG <i>Sodium Cocoyl Glycinate</i>	30.00 %
	Genagen® KB <i>Coco-Betaine</i>	15.00 %
	Coco Glucoside	9.23 %
	Velsan® SC <i>Sorbitan Caprylate</i>	1.00 %
D	Citric Acid 25 %	approx. 3.25 %
E	Methylisothiazolinone	0.02 %

Procedure

- I Add B to A and stir until the solution is clear
- II Add C to I and stir until the solution is homogeneous
- III Adjust the pH with D to 7.0 to 7.2
- IV Heat to approx. 40 ° C und stir until the solution is clear, then cool to room temperature
- V Add E to IV

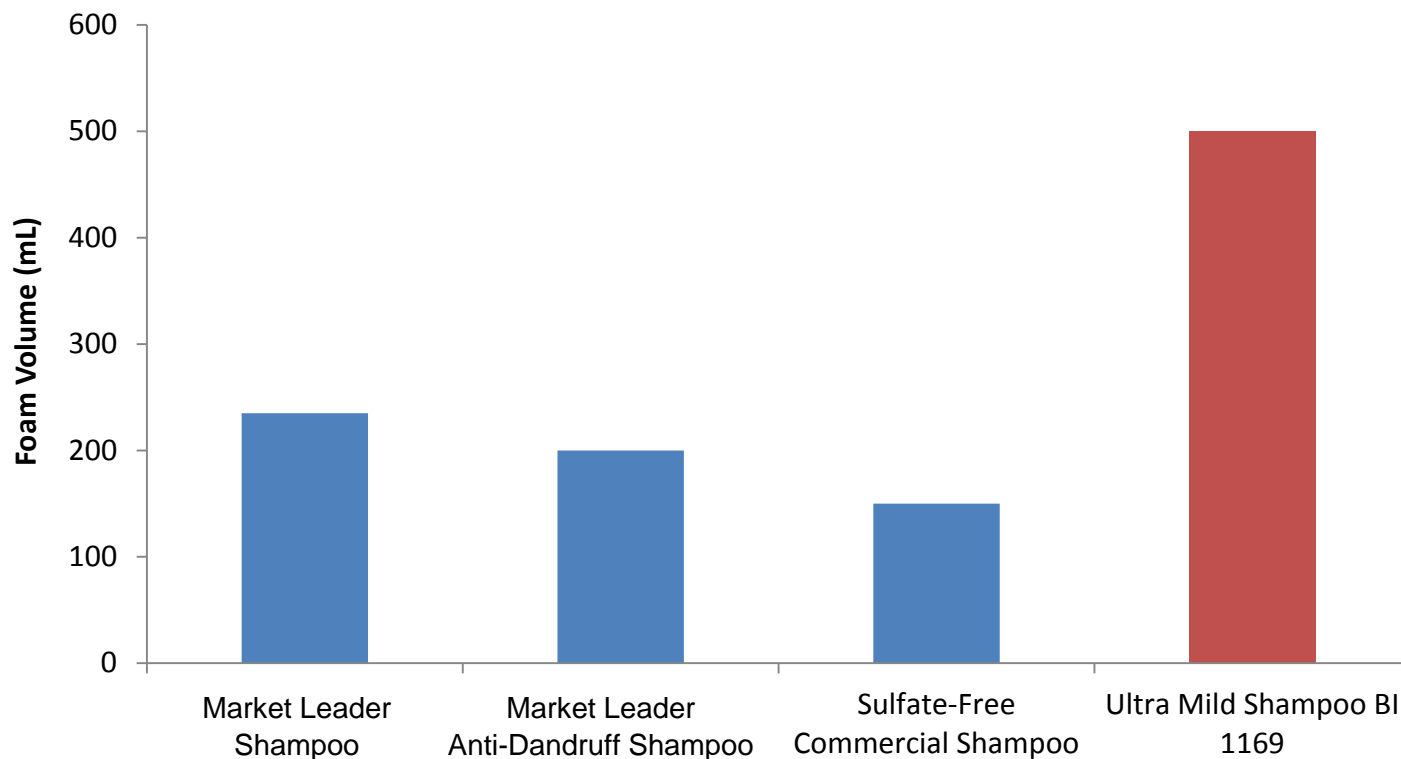
Properties:

pH = 7.0

Viscosity: 4200 mPas
(Brookfield DV-I+, T-D, 20 rpm, 20°C)
RBC: 11 % Denaturation

- Hostapon® SG is the primary surfactant
- Sulfate-free and ethoxylate-free claims
- Mildness supported by RBC evaluation

Hostapon® SG Shampoo BI 1169 Foams better than Market Leaders



Cylinder Shake Test (0.1% shampoo in DI water, 22°C)

Hostapon® SG / Hostapon® SCI Sulfate-Free Shampoo Consumer Home Use Test

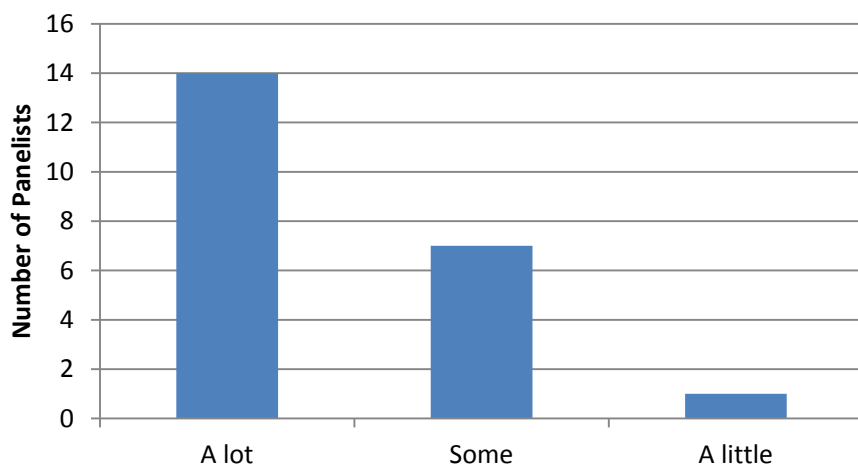
- Everyday Use Shampoo
 - no “white card” statement
- Usage: Every shampoo occasion for one week, at least 4 times in one week
- Friends & Family design
- 22 panelists finished study; ages 22-60
- Hostapon SG is primary surfactant
- Hostapon SCI 85C provides a foam boost and a creamy foam

Everyday Use Shampoo		7-SM-75
<i>High performance for everyday use shampoos</i>		
A	Water	10.00 %
	Sorbitol	1.00 %
B	Hostapon® SG (Clariant)	15.00 %
	Sodium Cocoyl Glycinate	
	Hostapon® SCI 85C (Clariant)	4.40 %
	Sodium Cocoyl Isethionate	
	Genapol® EGDS	1.50 %
	<i>Glycol Distearate</i>	
C	Water	ad 100 %
	Kathon CG	0.10 %
D	Genagen® KB (Clariant)	15.00 %
	<i>Coco-Betaine</i>	
	Coco Glucoside	9.23 %
	Velsan® SC (Clariant)	1.00 %
	<i>Sorbitan Caprylate</i>	
E	Polyquaternium-10	0.35 %
	Fragrance	0.50 %
F	Citric Acid	q.s.

Sulfate-Free Shampoo 7-SM-75

Consumer Home Use Test: Lather Amount

The amount of lather was



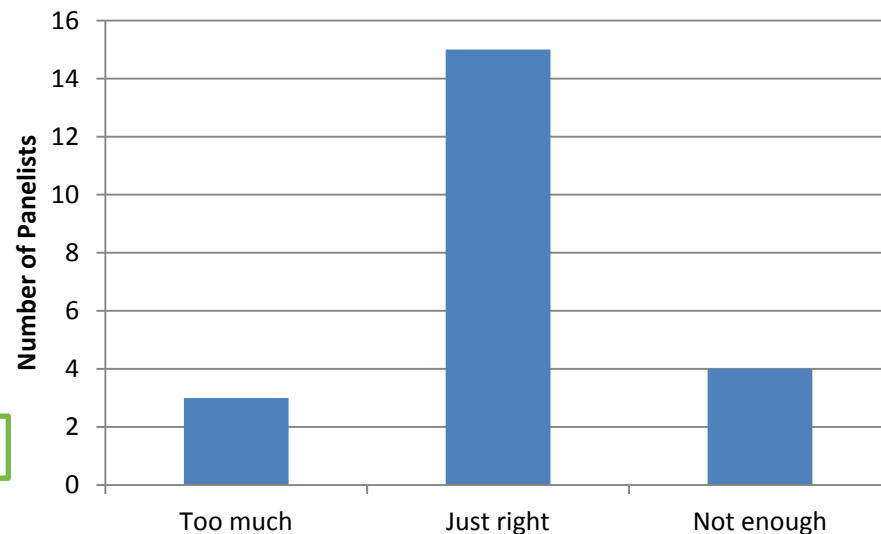
Amount of lather was "A lot" for n = 14

Amount of lather was "Some" for n = 7

Amount of lather was "Just right" for n = 15

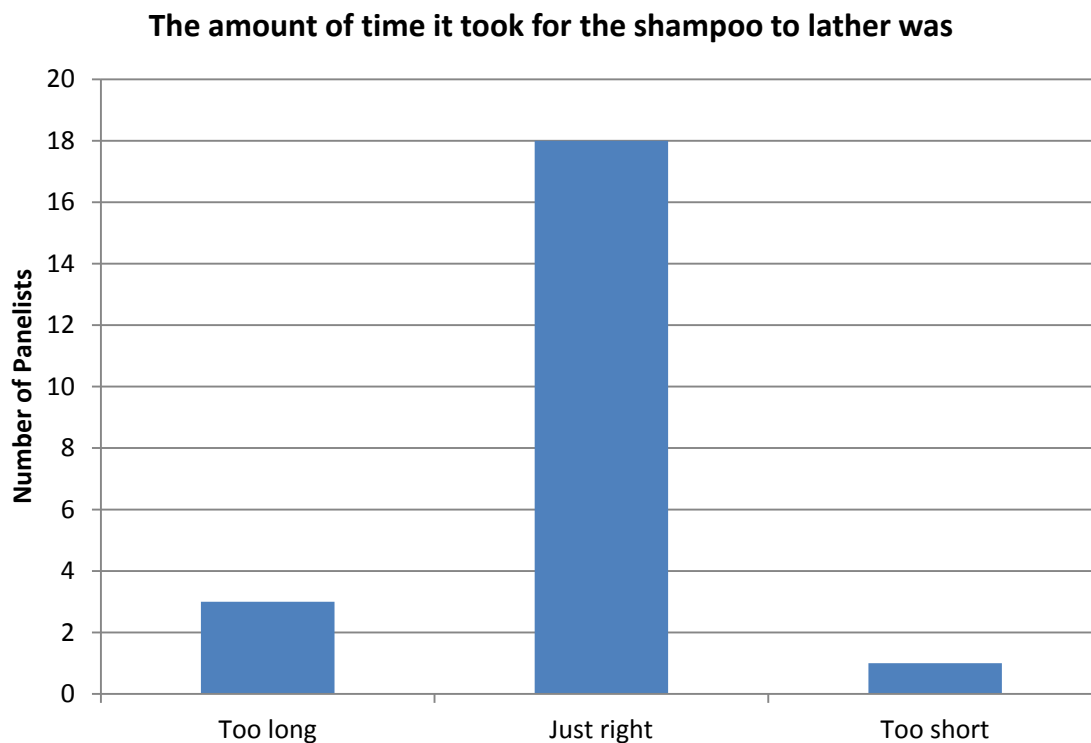
*Sulfate-free Shampoo 7-SM-75
delivers a high foam amount*

For me, the amount of lather was



Sulfate-Free Shampoo 7-SM-75

Consumer Home Use Test: Flash Foam



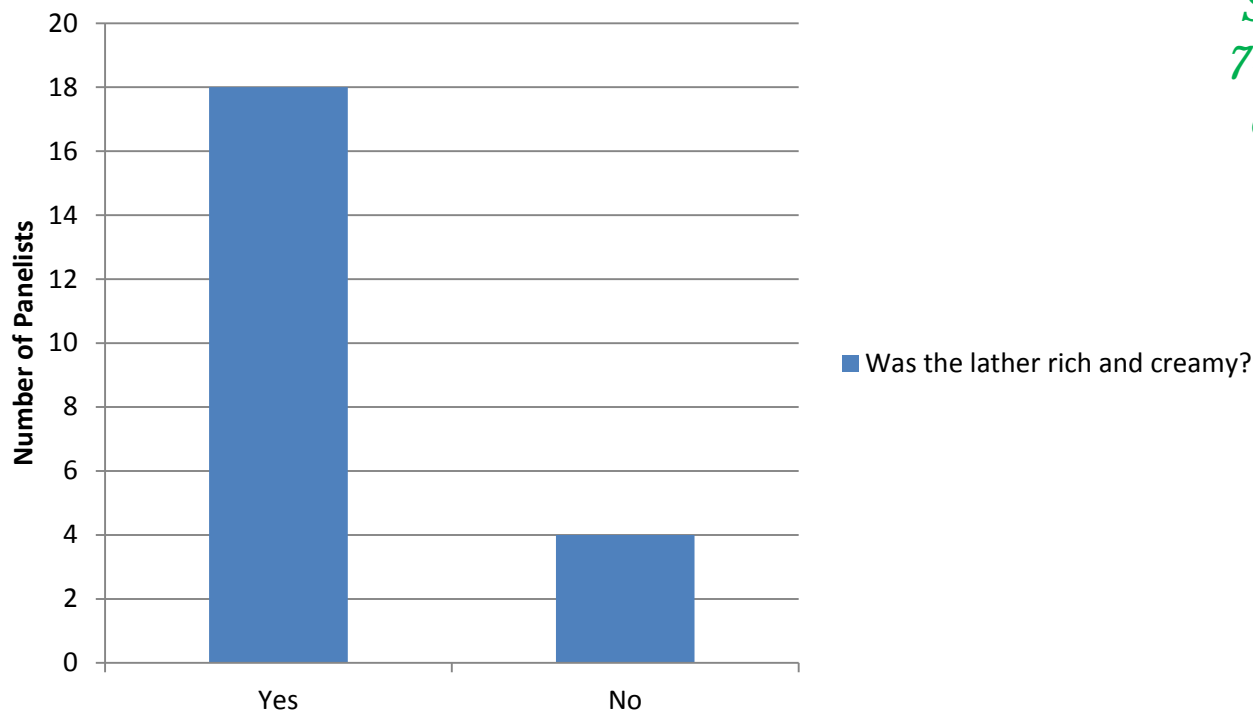
*Sulfate-free Shampoo
7-SM-75 has excellent
flash foam*

Amount of time to lather was "Just right" for n = 18

Sulfate-Free Shampoo 7-SM-75

Consumer Home Use Test: Foam Texture

How does the lather feel or look?



*Sulfate-free Shampoo
7-SM-75 has a rich and
creamy foam texture*

Generally, panelists felt the foam was "rich and creamy"

Hostapon® SCB: Sulfate-Free Color Protection Shampoo

Sulfate-Free Daily Color Care Shampoo

2-AW-42

Sulfate-free shampoo with superior foam performance

Mild surfactant blend and SilCare® Silicone SEA provide color protection

A	Water	ad 100 %
	Polyglykol® 300	0.25 %
	PEG-6	
	Polyglykol® 1500	0.25 %
	PEG-32	
B	Emulsogen® LS-24 Gel	4.00 %
	Sodium Laureth-13 Carboxylate	
	Glycol Distearate	1.50 %
C	Hostapon® SCB	35.00 %
	Coco Betaine (and) Sodium Cocoyl Isethionate	
	Phenonip® XB	0.60 %
	<i>Phenoxyethanol (and) Methylparaben (and)</i>	
	<i>Ethylparaben (and) Propylparaben</i>	
	Panthenol	0.50 %
	SilCare® Silicone SEA	1.00 %
	<i>Trideceth-9 PG-Amodimethicone (and) Trideceth-12</i>	
	Genapol® LT	5.00 %
	<i>PEG-150 Polyglyceryl-2 Tristearate (and) Laureth-3</i>	
	<i>(and) Dipropylene Glycol</i>	

Procedure

- I Combine components of A with stirring and mix until uniform.
- II Once all components have fully dissolved, heat to 70°C and add the components of B with stirring.
- III Mix until all components are dissolved and mixture is uniform.
- IV Remove heat and add components of C with stirring. Mix until uniform.

Hostapon® CT Liq : Ideal for **clear** sulfate free formulations

Sulfate free shampoo: Sodium methyl cocoyl taurate



3,770 cP

Sulfate free shampoo: Hostapon CT Liq



8,490 cP

Hostapon® CT Liq : Ideal for **clear** sulfate free formulations

Sulfate Free Shampoo F320		% w/w
A	Aqua	To 100.00%
	Polyquaternium-10	0.20%
	PEG-6000 Distearate	0.80%
B	Genagen® KB <i>Coco-Betaine</i>	16.67%
	Hostapon® CT Liq Sodium Methyl Cocoyl Taurate	16.00%
C	Hydrolyzed Wheat Protein	0.20%
	D-Panthenol	0.20%
	Nipaguard® CG <i>Methylchloroisothiazolinone (and)</i> <i>Methylisothiazolinone</i>	0.15%

- I. Homogenize the phase A under heating (approx. 50°C).
- II. Add B to I under stirring.
- III. Add the components of C one after another to IV and homogenize with high stirring.
- IV. Cool down to 25°C.
- V. Add the components of D one after another to IV and homogenize during approx. 20 minutes.
- VI. If necessary, adjust the pH to 6.5.

pH: 6.0 – 7.0 Viscosity (Brookfield): 7,000 – 9,000 cP, RV 5, 20 RPM

Stability: stable at RT, 2°C and 45°C for 12 weeks

Sulfate free shampoo: Hostapon CT Liq



8,490 cP

Hostapon[®] CT Liq Sulfate-Free Multi-cultural Shampoo 03413_321

A	Aqua	To 100.00%
	Polyquaternium-10	0.20%
	PEG-6000 Distearate	0.42%
B	Genagen [®] KB <i>Coco-Betaine</i>	16.67%
	Hostapon[®] CT Liq <i>Sodium Methyl Cocoyl Taurate</i>	12.00%
	Hostapon[®] SCI 85 P <i>Sodium Cocoyl Isethionate</i>	1.16%
C	Hydrolyzed Wheat Protein	0.20%
	D-Panthenol	0.20%
	Nipaguard [®] CG <i>Methylchloroisothiazolinone (and)</i> <i>Methylisothiazolinone</i>	0.15%

Procedure:

- I. Homogenize the phase A under heating (approx. 50°C).
- II. Add B to I under stirring.
- III. Add the components of C one after another to IV and homogenize with high stirring.
- IV. Cool down to 25°C.
- V. Add the components of D one after another to IV and homogenize during approx. 20 minutes.
- VI. If necessary, adjust the pH to 6.5.

Physical Properties:

pH: 6.0 – 7.0

Appearance: clear yellowish

Viscosity (Brookfield): 7,000 – 9,000 cP, RV 5, 20 RPM

Stability: stable at RT, 2°C and 45°C for 12 weeks

Hostapon® CT Liq Sulfate-Free Color Protection Shampoo 03413_323

A	Aqua	To 100.00%
	Polyquaternium-10	0.20%
	PEG-6000 Distearate	1.40%
B	Genagen® KB <i>Coco-Betaine</i>	16.67%
	Hostapon® CT Liq <i>Sodium Methyl Cocoyl Taurate</i>	16.00%
C	Hydrolyzed Wheat Protein	0.20%
	D-Panthenol	0.20%
	Silcare® Silicone SEA <i>Trideceth-9 PG-Amodimethicone and</i> <i>Trideceth-12</i>	0.60%
	Nipaguard® CG <i>Methylchloroisothiazolinone (and)</i> <i>Methylisothiazolinone</i>	0.15%

Procedure:

- I. Homogenize the phase A under heating (approx. 50°C).
- II. Add B to I under stirring.
- III. Add the components of C one after another to IV and homogenize with high stirring.
- IV. Cool down to 25°C.
- V. Add the components of D one after another to IV and homogenize during approx. 20 minutes.
- VI. If necessary, adjust the pH to 6.5.

Physical Properties:

pH: 6.0 – 7.0

Appearance: clear yellowish

Viscosity (Brookfield): 7,000 – 9,000 cP, RV 5, 20 RPM

Stability: stable at RT, 2°C and 45°C for 12 weeks

Hostapon[®] CT Liq Sulfate-Free Shampoo 03413_326

A	Aqua	To 100.00%
	Polyquaternium-10	0.20%
	PEG-6000 Distearate	0.40%
B	Genagen [®] CAB-CM <i>Cocoamidopropyl Betaine</i>	16.67%
	Hostapon[®] CT Liq <i>Sodium Methyl Cocoyl Taurate</i>	12.00%
C	Hydrolyzed Wheat Protein	0.20%
	D-Panthenol	0.20%
	Nipaguard [®] CG <i>Methylchloroisothiazolinone (and)</i> <i>Methylisothiazolinone</i>	0.15%

Procedure:

- I. Homogenize the phase A under heating (approx. 50°C).
- II. Add B to I under stirring.
- III. Add the components of C one after another to IV and homogenize with high stirring.
- IV. Cool down to 25°C.
- V. Add the components of D one after another to IV and homogenize during approx. 20 minutes.
- VI. If necessary, adjust the pH to 6.5.

Physical Properties:

pH: 6.0 – 7.0

Appearance: clear yellowish

Viscosity (Brookfield): 13,000 – 16,000 cP, RV 6,
20 RPM

Stability: stable at RT, 2°C and 45°C for 12 weeks

SULFATE-FREE CLEANSING BARS

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Consumer Care
07.09.2012

what is precious to you?

Hostapon® SCI

Mild Surfactant for Sulfate-Free Cleansing Bars

Mild Cleansing Bar Types

- Combo bars: Synthetic detergents + traditional soaps
- Syndet bars: Synthetic detergents only

Hostapon® SCI is ideal for Combo and Syndet bars

Hostapon® SCI 65

Sodium cocoyl isethionate + ~30% fatty acid
Recommended for bar formulations



Available in easy to melt chips/flakes

Hostapon® SCI 85

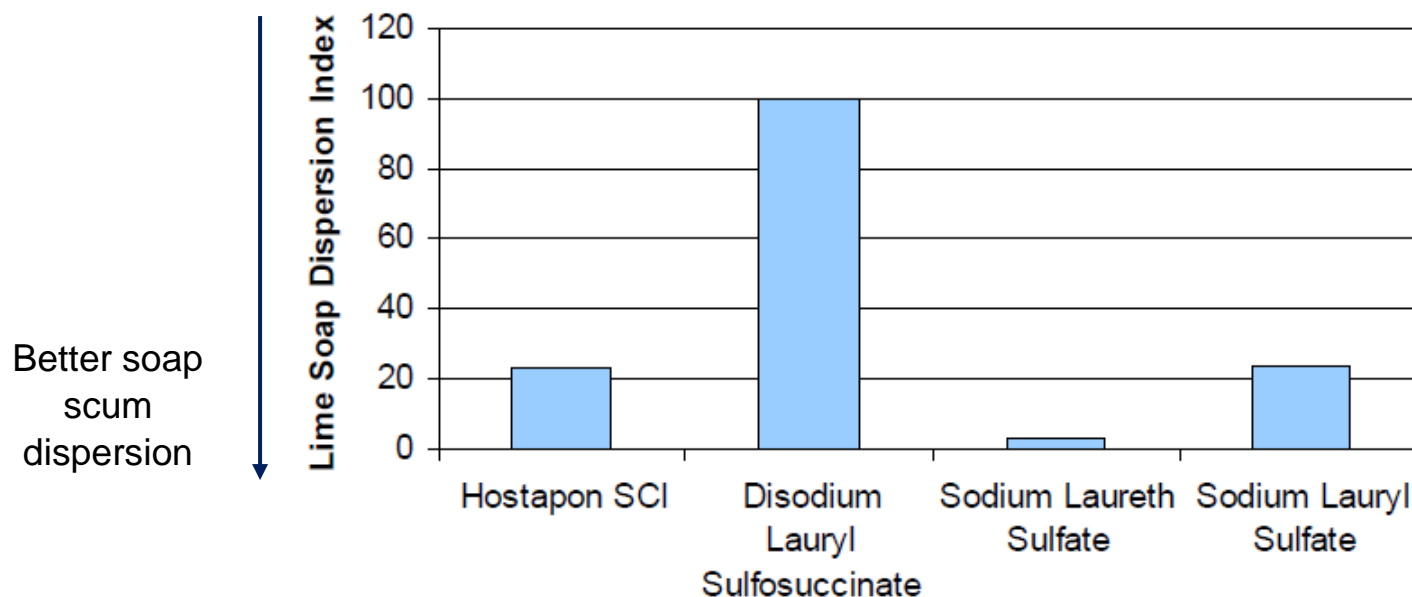
Sodium cocoyl isethionate + ~10% fatty acid
Recommended for liquid formulations



*Available in three easy to melt forms:
chips/flakes, granules, powder*

Hostapon® SCI Good Soap Scum Dispersion

- Hostapon® SCI provides soap scum dispersion in combo bars to eliminate soap scum on the shower and leave a clean feeling on skin



- Lime Soap Dispersion Index is the amount of surfactant needed to disperse 100 parts of calcium oleate

Hostapon® SCI Sulfate-Free Syndet Bar

Syndet Cleansing Bar

All / 5006

Mild cleansing bar

Excellent lathering and skin feel

Sulfate-free and soap-free

A	Hostapon® SCI 65 C (Clariant)	64.50 %
	<i>Sodium Cocoyl Isethionate (and) Stearic Acid</i>	
	Lauroyl Sarcosine	20.00 %
	Corn Starch	10.00 %
	Titanium Dioxide	0.50 %
	Sodium Carbonate	5.00 %

Procedure

- I Preheat kneader (mixer) for 1 hour at 85°C
- II Add the components into the kneader and knead for 30 minutes
- III Cool and feed through roll mill

Hostapon® SCI Sulfate-Free Combo Bar

Combo Cleansing Bar

Mild cleansing bar

Enhanced, rich lather with clean rinse afterfeel

Improved lime soap dispersion from Hostapon® SCI 85

A	Hostapon® SCI 85 P (Clariant)	49.00 %
	Sodium Cocoyl Isethionate	
	Stearic Acid	18.00 %
	Sodium Tallowate	10.00 %
	Hostapon® SI (Clariant)	4.00 %
	<i>Sodium Isethionate</i>	
	Coconut Fatty Acid	5.00 %
	Sodium Stearate	3.00 %
	Genagen® CAB 818 (Clariant)	2.00 %
	<i>Cocamidopropyl Betaine</i>	
	Water	8.00 %
	Sodium Chloride	1.00 %

Procedure

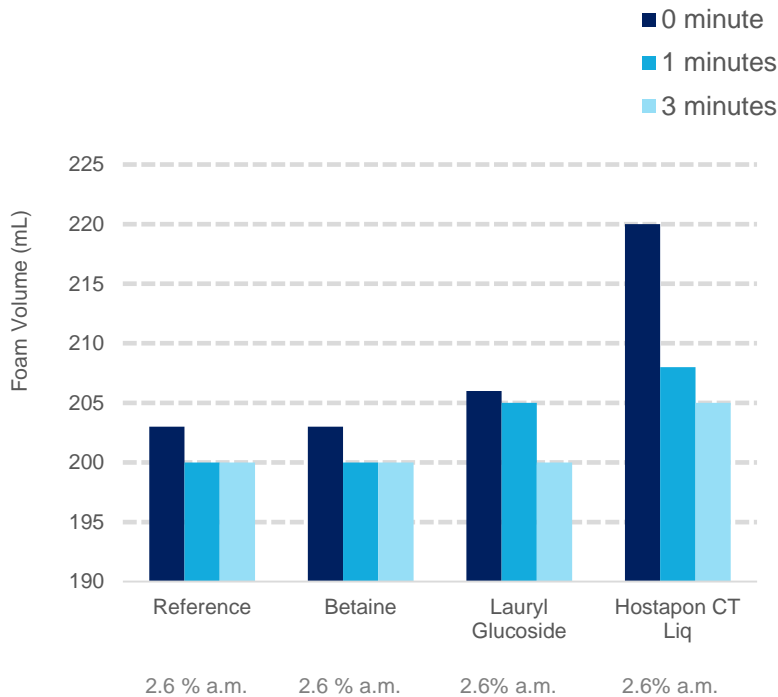
- I Preheat kneader (mixer) for 1 hour at 85°C
- II Add the components into the kneader and knead for 30 minutes
- III Cool and feed through roll mill

* Alternative option is to replace Hostapon® SCI 85 P and Stearic Acid/Coconut Fatty Acid with Hostapon® SCI 65 C

Hostapon® CT Liq: creamy stable **Flash Foam**

Bar Soap

Hostapon® CT Liq formulations provides a superior **Flash Foaming** performance vs other surfactants (even in hard water)



Test Conditions: 1g Soap/L, 25°C, water hardness 180ppm CaCO₃;

Bar Soap Formulation	SP8-T
Soap Base (100% Vegetable)	83%
Titanium Dioxide	0.1%
Etidronic Acid	0.1%
Tetrasodium EDTA	0.1%
Propyleneglycol	0.5%
Glycerin	1.7%
BHT	0.04%
Aqua	qs 100
Zea Mays Starch	3.5%
(Co-Surfactant)	2.6%

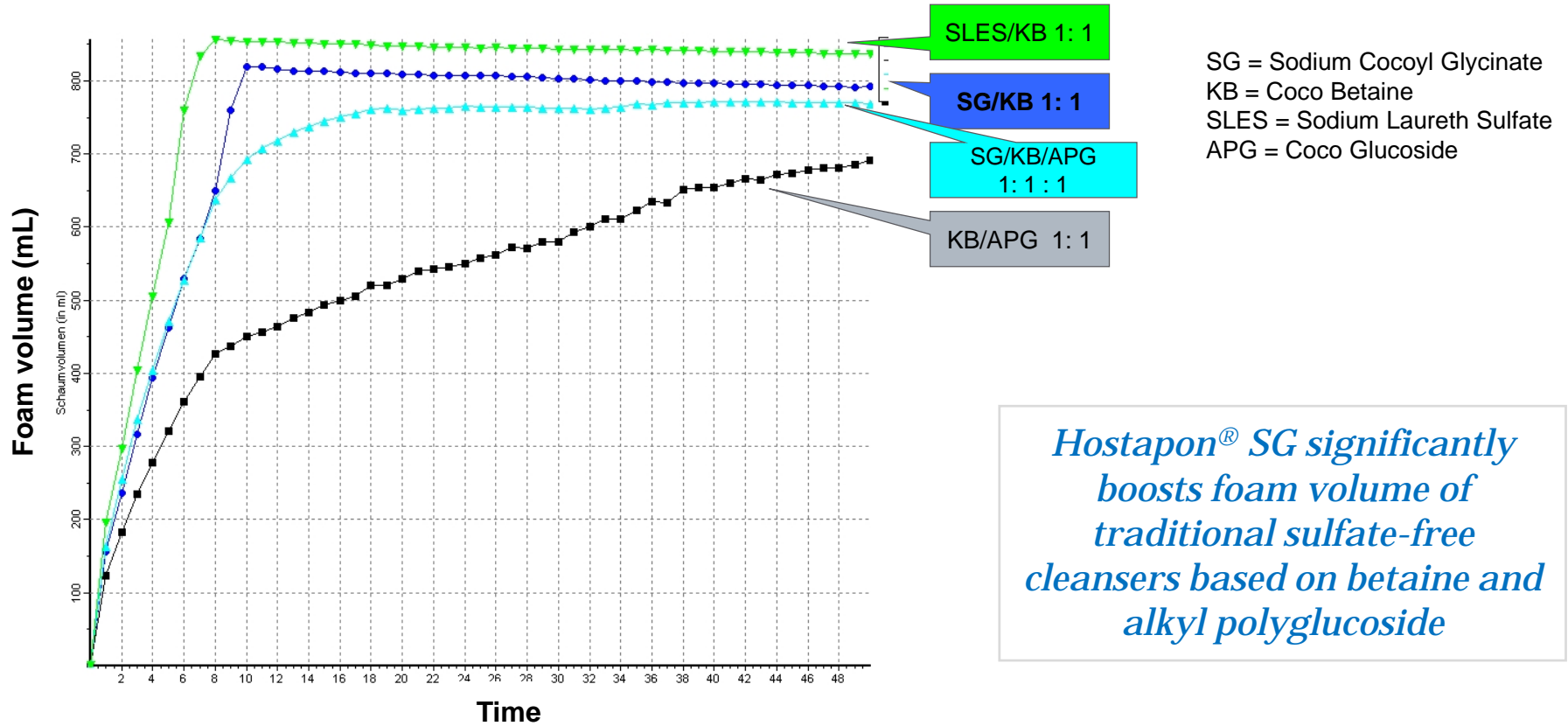
HIGH EFFICIENCY FOAM BOOSTING

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what is precious to you?

Hostapon® SG Boost foam of traditional Sulfate-Free Cleansers



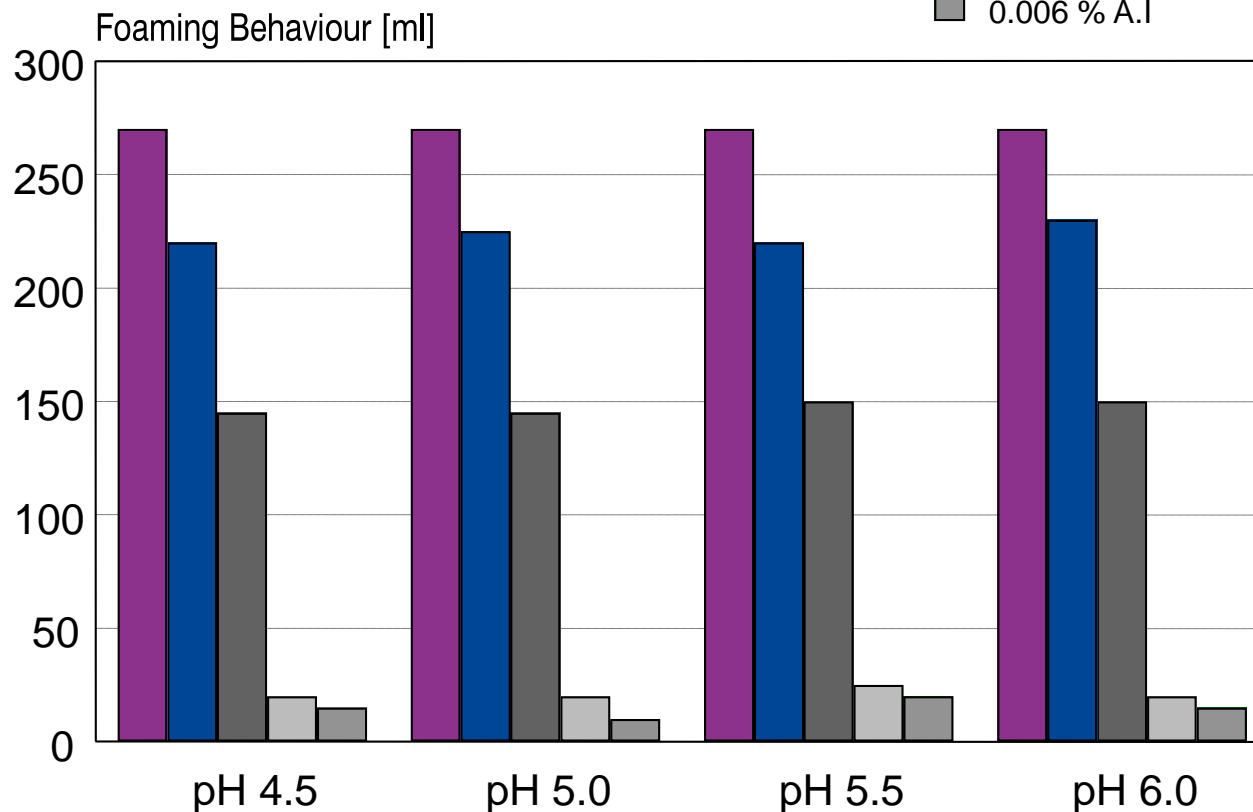
Sita-Foam Tester (0.01% a.m. surfactant in DI water, 37°C, pH=8)

Hostapon® CT Paste

High Foam Performance at Low Use Levels

Ross Miles Foam
Hostapon® CT Paste

- 1.0 % A.I.
- 0.1 % A.I.
- 0.03 % A.I.
- 0.002 % A.I.
- 0.006 % A.I.



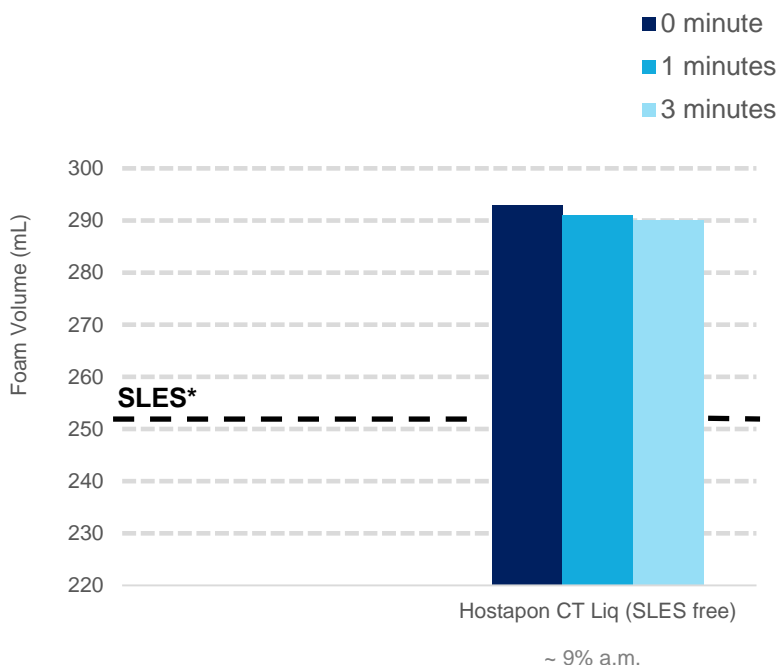
Hostapon® CT Paste provides high foam at concentrations as low as 0.1% active surfactant

Hostapon® CT Paste is an ideal co-surfactant for sulfate-free liquid and bar formulations

Hostapon® CT Liq: creamy stable **Flash Foam**

Shampoo

Hostapon® CT Liq formulation provides superior profile of **Foam generation** than SLES



*Dotted line represents typical SLES value.

Test Conditions: 1g shampoo/L, 25°C, water hardness 70 ppm CaCO₃;

Sulfate Free Shampoo		%w/w
A	Water	To 100%
	Polyquaternium-10	0.2%
	Hostapon® CT Liq Sodium Methyl Cocoyl Taurate	12.0%
B	Glycerin	1.0%
	Genagen® KB <i>Coco-Betaine</i>	16.67%
C	Hostapon® SCI 85 P Sodium Cocoyl Isethionate	1.16%
	D	Hydrolyzed Wheat Protein
E	D-Panthenol	0.2%
	Nipaguard® CG <i>Methylchloroisothiazolinone (and)</i> <i>Methylisothiazolinone</i>	0.15%
F	PEG-6000 Distearate	0.42%

- I. Homogenize the components of phase A.
- II. Add B into 1 and homogenize.
- III. Homogenize the components of phase C.
- IV. Add 2 into 3 and mix very well in high stirring.
- V. Add the components of D one after another to 4 and homogenize during approx. 20 minutes.
- VI. Heat an aliquot of 5, add phase E and homogenize under heating until fully melt.
- VII. Add 6 into the rest of 5 and homogenize.

FOAMING IN THE PRESENCE OF HIGH OIL LOADS

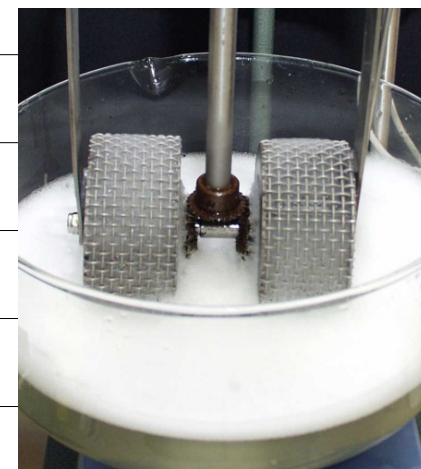
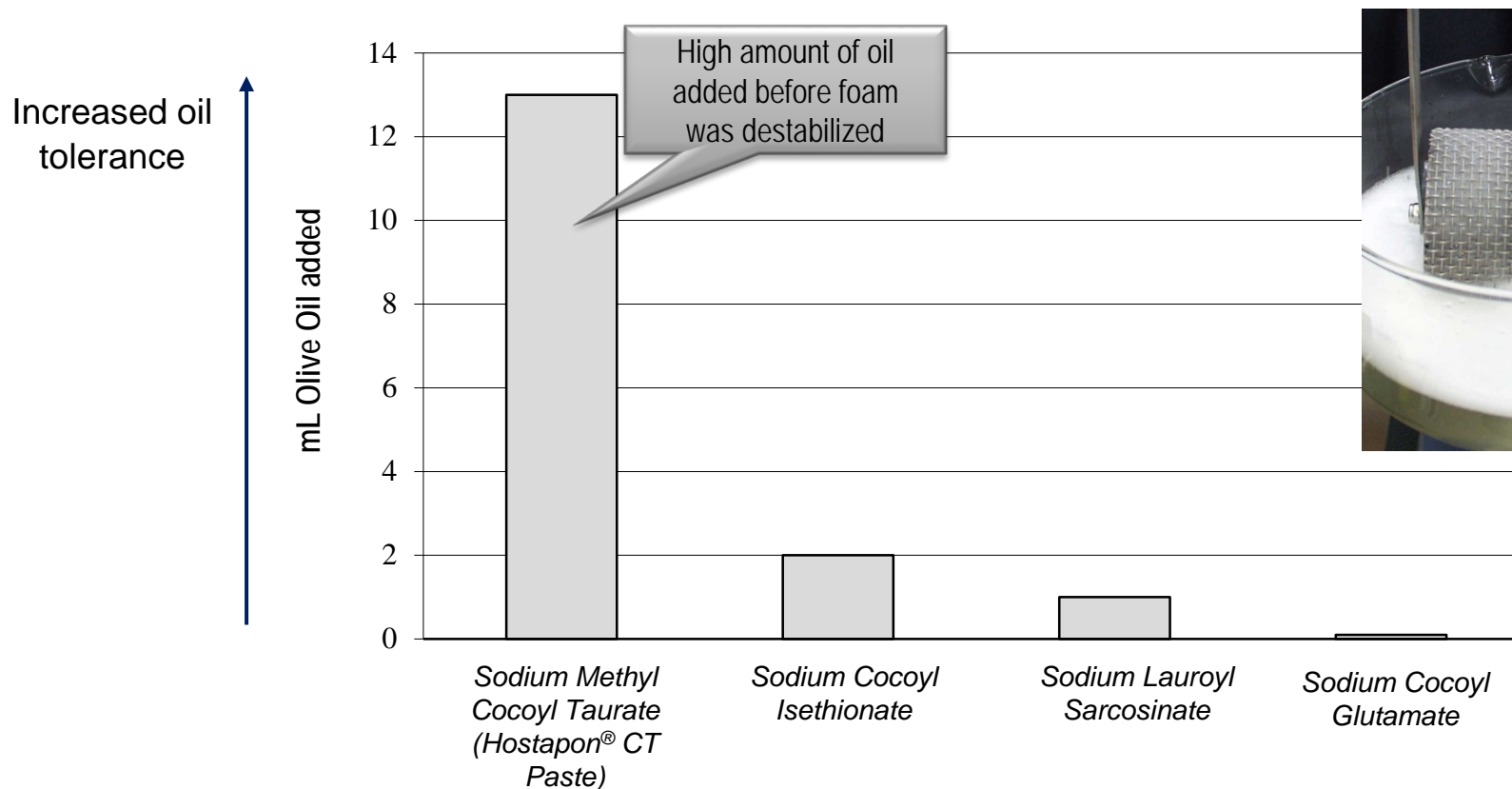
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what is precious to you?

Hostapon® CT Paste Stabilize Foam in the Presence of Oils

Determination of oil quantity needed to break the foam surface



Total Surfactant Activity: 0.05 %, pH = 5.5, tap water

ENHANCING FORMULATION MILDNESS

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what is precious to you?

Hostapon® CGN

Enhanced Skin Moisture Content in Rinse-off Applications

XXIst IFSCC International Congress 2000, Berlin – Proceedings

**Reduction Of Skin's Surfactant Adsorption:
 An Effective Way To Improve Mildness
 And Performance Of Bath Care Products**

Beiersdorf AG, R & D cosmed, Hamburg, Germany

Background
 Personal care products like shower or bath gels are usually water-based formulations. This means that during application and rinsing a considerable amount of surfactant is adsorbed on the skin. It is well known from literature that the adsorption of anionic surfactants onto skin is related to the hydrophobicity of the skin surface. The adsorption of anionic surfactants onto skin is related to the hydrophobicity of the skin surface. The adsorption of anionic surfactants onto skin is related to the hydrophobicity of the skin surface. The adsorption of anionic surfactants onto skin is related to the hydrophobicity of the skin surface.

Results
 The amount of SLES adsorbed on the skin was significantly reduced when 0.2% CCG was added to the formulation. The amount of SLES adsorbed on the skin was significantly reduced when 0.2% CCG was added to the formulation. The amount of SLES adsorbed on the skin was significantly reduced when 0.2% CCG was added to the formulation.

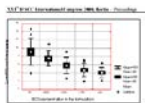


Figure 1: Effect of the addition of 0.2% CCG on the amount of SLES adsorbed on the skin.

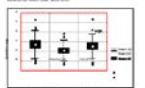


Figure 2: Effect of the addition of 0.2% CCG on the amount of SLES adsorbed on the skin for a different formulation.

Reduction Of Skin's Surfactant Adsorption: An Effective Way To Improve Mildness And Performance Of Bath Care Products

Martin Sugár, Robert Schmucker

Beiersdorf AG, R & D cosmed, Hamburg, Germany

Discussion

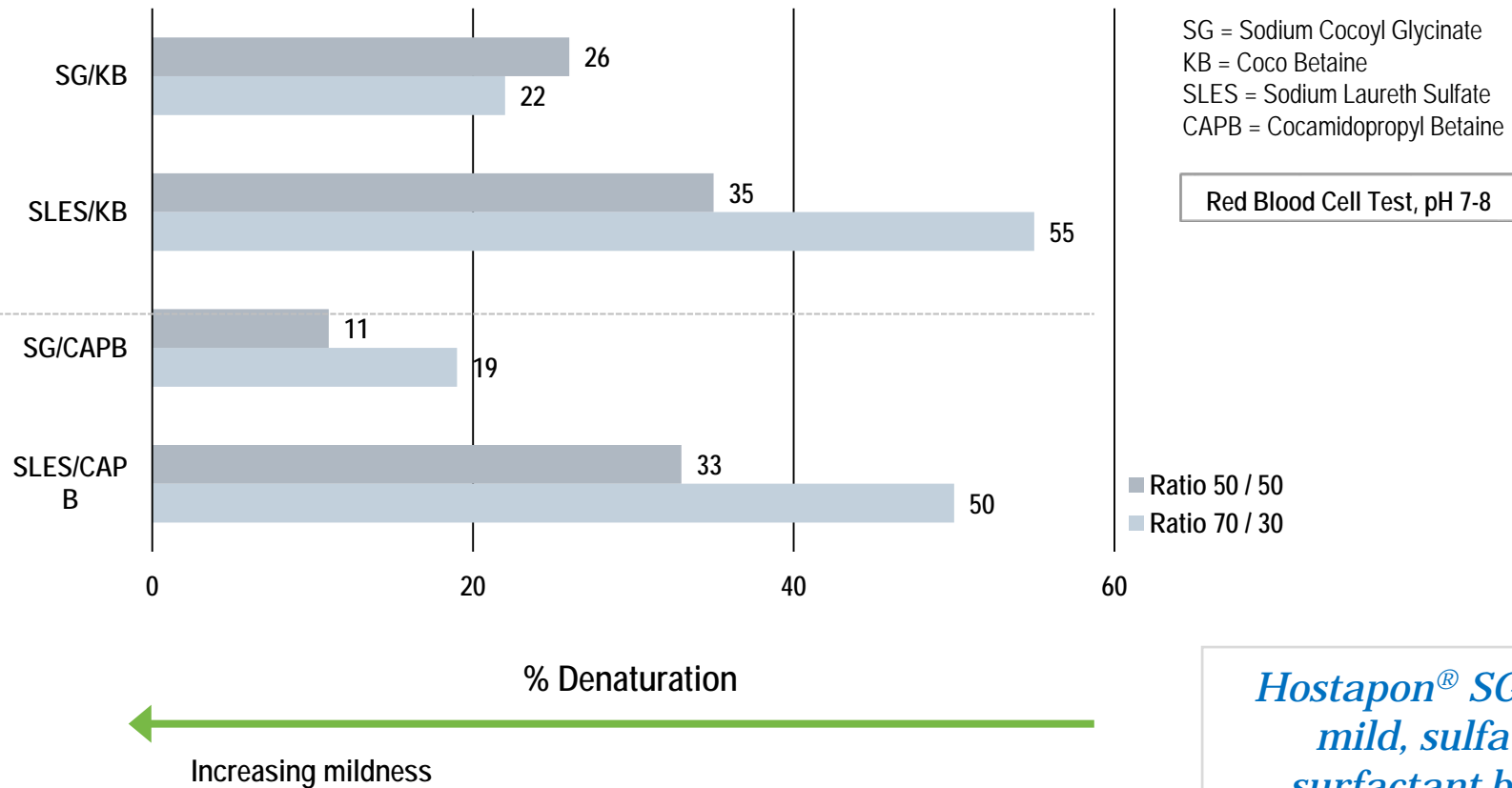
It was shown that the anionic surfactant **SLES** possesses a high substantivity to human skin. Even short-term contact with human skin lead to a quantifiable and long lasting adsorption of the surfactant.

A **reduction of SLES adsorption** was achieved by the addition of the mild co-surfactant Sodium Cocoyl Glutamate (CCG) to standard shower formulations. CCG itself did not adsorb onto the skin in relevant amounts. The reduced SLES adsorption correlated with an **increased moisture content** of the skin, with enhanced **mildness** and with an **improved sensory perception** of the formulations.

Note: same effect will occur with Hostapon® CGN

Hostapon® SG

Significantly milder surfactant blends



Hostapon® SG provides mild, sulfate-free surfactant blends in combination with betaines

IMPROVED RINSABILITY

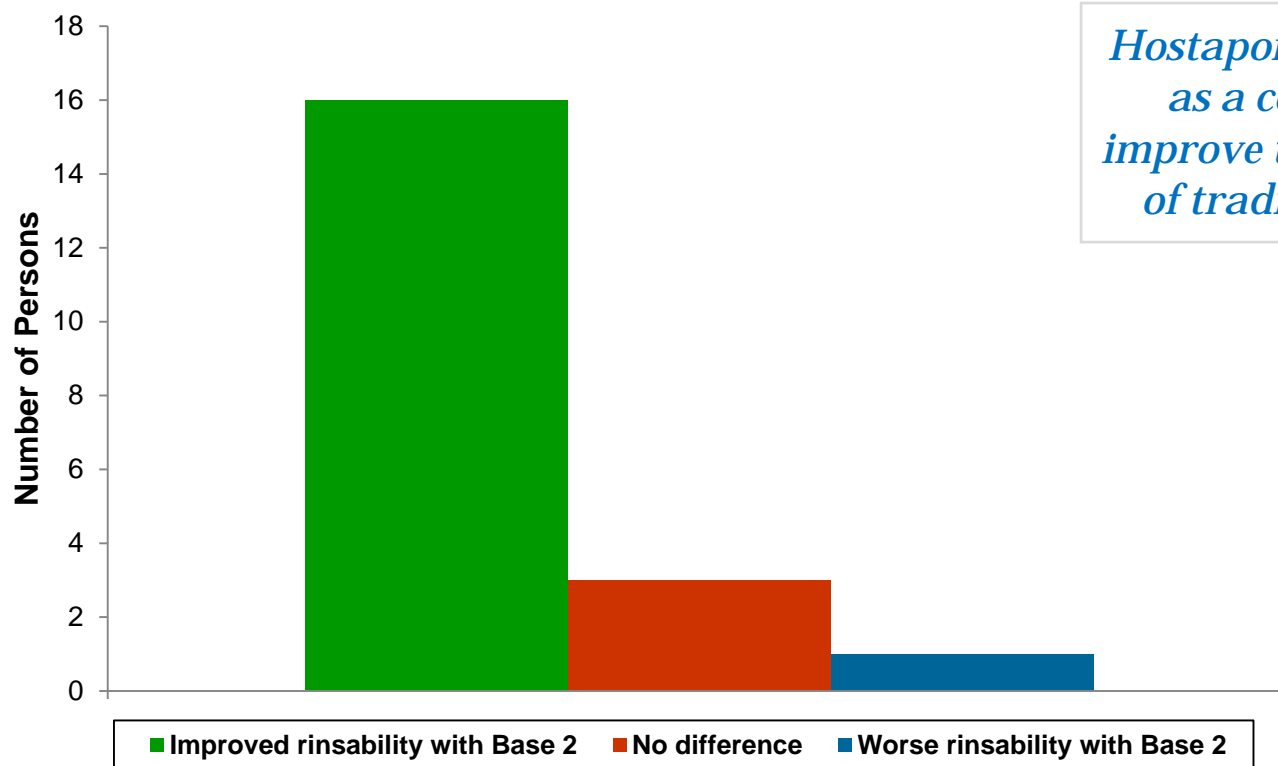
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what is precious to you?

Hostapon[®] SG

Improved rinsability of traditional cleansers



Hostapon[®] SG can be used as a co-surfactant to improve the clean rinse feel of traditional cleansers

Rinsability Panel Evaluation (n=20): 10% SLES (Base 1) and 10% SLES + 3% Hostapon[®] SG (Base 2)

COLD PROCESSABILITY

Public

Industrial Consumer Specialties
Consumer Care
07.09.2012

what is precious to you?

Cold Processable, Sulfate-free, Mild Surfactants

- Cold Processable primary or co-surfactants
 - Hostapon® SCB: *Coco-betaine (and) Sodium Cocoyl Isethionate*
 - Hostapon® SG: *Sodium Cocoyl Glycinate*

- Cold Processable co-surfactants
 - Hostapon® CT Liq : *Sodium Methyl Cocoyl Taurate*
 - Hostapon® CGN: *Sodium Cocoyl Glutamate*
 - Emulsogen® LS-24 Gel: *Sodium Laureth-13 Carboxylate*

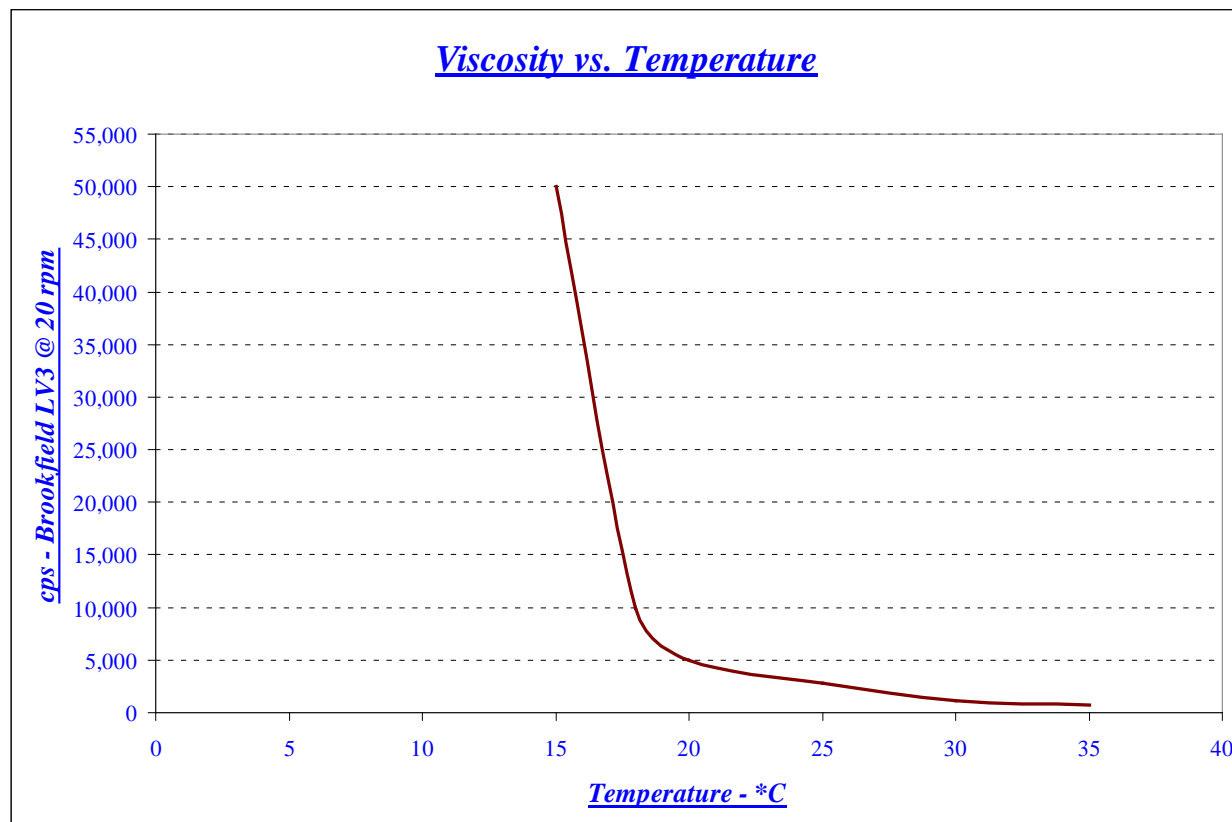
Hostapon® SCB

Benefits of Hostapon® SCI with Cold Processability

Sodium Cocoyl Isethionate is a solid and requires heat in formulation



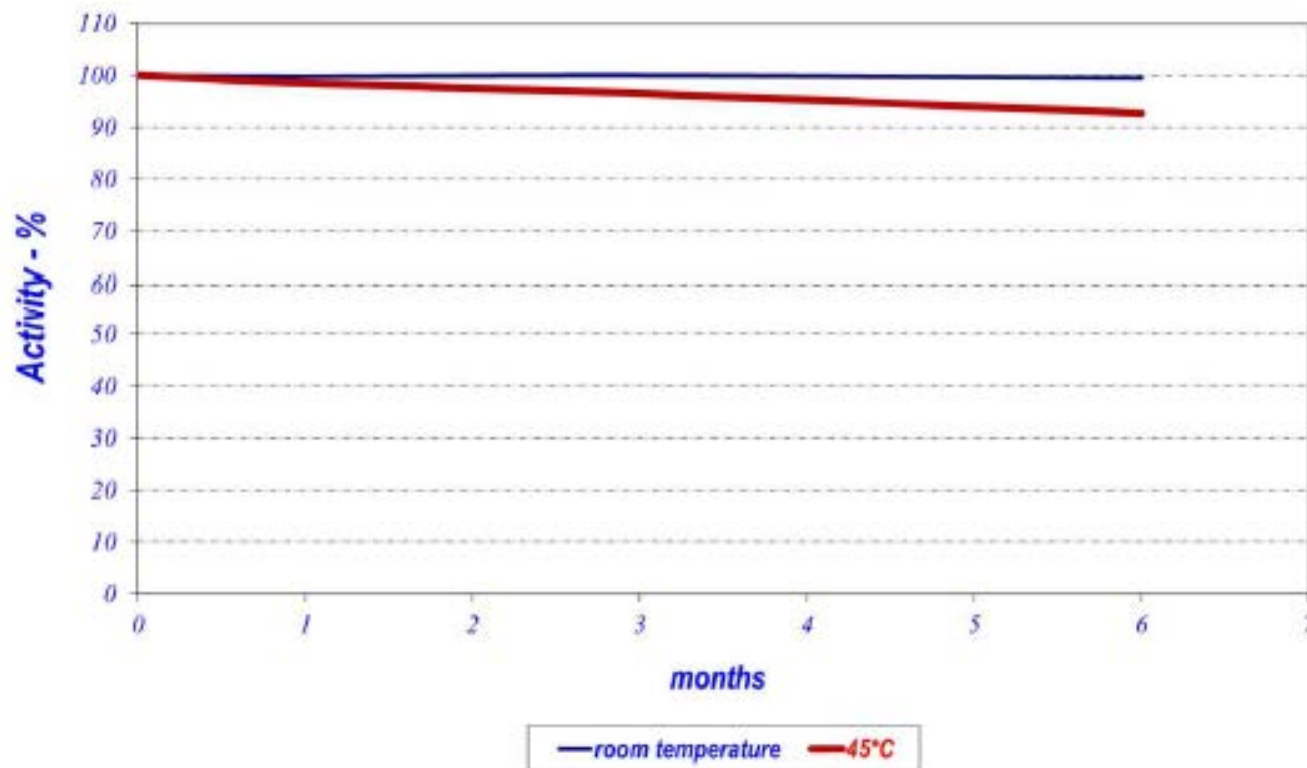
Hostapon® SCB blends Sodium Cocoyl Isethionate with Coco-betaine for a cold processable liquid with low viscosity at room temperature



Hostapon® SCB

Minimal Sodium Cocoyl Isethionate Hydrolysis

Blend of Sodium Cocoyl Isethionate with Coco-betaine provides improved stability against hydrolysis for Sodium Cocoyl Isethionate at room temperature and elevated temperature



Hostapon® CT Liq : Cold Processable & Liquid



Sodium Methyl Cocoyl Taurate
~30% a.m.

Pearly / Paste

31,600 cP



Sodium Methyl Cocoyl Taurate
~ 24% a.m.

Pearly / Viscous

8,860 cP



Hostapon® CT Liq
~24% a.m.

Clear / Liquid

75 cP

FORMULATION VERSATILITY FROM ONE SURFACTANT

Public

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Consumer Care
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what is precious to you?

Hostapon[®] SCI

Versatile Primary Surfactant and Co-Surfactant

- Syndet Cleansing Bar
- Combo Cleansing Bar
- Conditioning Shampoo
- Clear Body Wash

Hostapon® SCI: Versatile Primary Surfactant

Syndet Cleansing Bar

Mild bar cleansing form

Excellent lathering and skin feel

Soap-free

All / 5006

A **Hostapon® SCI 65 C (Clariant)**

64.50 %

Sodium Cocoyl Isethionate (and) Stearic Acid

Lauroyl Sarcosine

20.00 %

Corn Starch

10.00 %

Titanium Dioxide

0.50 %

Sodium Carbonate

5.00 %

Procedure

- I Preheat kneader (mixer) for 1 hour at 85°C
- II Add the components into the kneader and knead for 30 minutes
- III Cool and feed through roll mill

Hostapon® SCI: Versatile Primary Surfactant

Combo Cleansing Bar

Mild cleansing bar

Enhanced, rich lather with clean rinse afterfeel

Improved lime soap dispersion from Hostapon® SCI 85

A	Hostapon® SCI 85 P (Clariant)	49.00 %
	<i>Sodium Cocoyl Isethionate</i>	
	Stearic Acid	18.00 %
	Sodium Tallowate	10.00 %
	Hostapon® SI (Clariant)	4.00 %
	<i>Sodium Isethionate</i>	
	Coconut Fatty Acid	5.00 %
	Sodium Stearate	3.00 %
	Genagen® CAB 818 (Clariant)	2.00 %
	<i>Cocamidopropyl Betaine</i>	
	Water	8.00 %
	Sodium Chloride	1.00 %

Procedure

- I Preheat kneader (mixer) for 1 hour at 85°C
- II Add the components into the kneader and knead for 30 minutes
- III Cool and feed through roll mill

* Alternative option is to replace Hostapon® SCI 85 P and Coconut Fatty Acid with Hostapon® SCI 65 C

Hostapon® SCI: Versatile Co-surfactant

Conditioning Shampoo

BI / 6201

Mild shampoo with conditioning benefits for everyday use

A	Polyquaternium-10	0.40 %
	Hostapon® SCI 65 C (Clariant)	2.00 %
	Sodium Cocoyl Isethionate (and) Stearic Acid	
	Water	ad 100.00 %
B	Sodium Laureth Sulfate	18.00 %
	Dimethicone PEG-6 Acetate	0.50 %
	Genagen® KB (Clariant)	9.00 %
	<i>Coco Betaine</i>	
	Genaminox® CSL (Clariant)	2.00 %
	<i>Cocamine Oxide</i>	
	Hostapon® KCG (Clariant)	5.00 %
	<i>Sodium Cocoyl Glutamate</i>	
C	Glycerin	2.00 %
	Sorbitol	2.00 %
	Quaternium-79 Hydrolyzed Soy Protein	0.50 %
D	Citric Acid	q.s.
E	Preservative	q.s.
	Fragrance	q.s.

Procedure

- I Dissolve the components of A with stirring in hot water (85°C)
- II Add the components of B, one after another, into I with stirring. If necessary, heat to approx. 70°C and mix until clear
- III Add the components of C one after another into II
- IV Adjust the pH using D to approx. pH 5.5
- V Add the components of E and mix until uniform

Hostapon® SCI: Versatile Co-surfactant

Clear Body Wash

AI / 8092

Mild body wash with high foam and good clarity

A	Water	ad 100.00 %
	Hostapon® SCI 85 C (Clariant)	5.00 %
	Sodium Cocoyl Isethionate	
	PEG-120 Methyl Glucose Dioleate	2.50 %
B	Sodium Laureth Sulfate	30.00 %
	Velsan® CG 070 (Clariant)	2.00 %
	<i>PEG-7 Glyceryl Cocoate</i>	
	Genagen® CAB (Clariant)	6.00 %
	<i>Cocamidopropyl Betaine</i>	
	Glycerin	2.00 %
C	Preservative	q.s.
	Fragrance	q.s.

Procedure

- I Dissolve the components of A with stirring in hot water (85°C)
- II Add the components of B, one after another, into I with stirring. If necessary, heat to approx. 70°C and mix until clear
- III At room temperature, add the components of C into II
- IV If necessary, adjust the pH

Hostapon[®] SCB

Versatile Primary Surfactant

- Sulfate-free Daily Color Care Shampoo
- Men's 3-in-1 Wash (shampoo, shower, shave)
- Gentle Cleansing Water
- Premium Cream Cleanser

Hostapon® SCB: Versatile Primary Surfactant

Sulfate-Free Daily Color Care Shampoo

2-AW-42

Sulfate-free shampoo with superior foam performance
Mild surfactant blend and SilCare® Silicone SEA provide color protection

A	Water	ad 100 %
	Polyglykol® 300 (Clariant)	0.25 %
	PEG-6	
	Polyglykol® 1500 (Clariant)	0.25 %
	PEG-32	
B	Emulsogen® LS-24 Gel (Clariant)	4.00 %
	Sodium Laureth-13 Carboxylate	
	Glycol Distearate	1.50 %
C	Hostapon® SCB (Clariant)	35.00 %
	Coco Betaine (and) Sodium Cocoyl Isethionate	
	Phenonip® XB (Clariant)	0.60 %
	<i>Phenoxyethanol (and) Methylparaben (and)</i>	
	<i>Ethylparaben (and) Propylparaben</i>	
	Panthenol	0.50 %
	SilCare® Silicone SEA (Clariant)	1.00 %
	<i>Trideceth-9 PG-Amodimethicone (and) Trideceth-12</i>	
	Genapol® LT (Clariant)	5.00 %
	<i>PEG-150 Polyglyceryl-2 Tristearate (and) Laureth-3</i>	
	<i>(and) Dipropylene Glycol</i>	

Procedure

- I Combine components of A with stirring and mix until uniform.
- II Once all components have fully dissolved, heat to 70°C and add the components of B with stirring.
- III Mix until all components are dissolved and mixture is uniform.
- IV Remove heat and add components of C with stirring. Mix until uniform.

Hostapon® SCB: Versatile Primary Surfactant

Men's 3-in-1 Wash

2-AW-41

Sulfate-free shampoo, shower, and shave 3-in-1 formulation

A	Water	ad 100 %
	Polyglykol® 300 (Clariant)	0.25 %
	PEG-6	
	Polyglykol® 1500 (Clariant)	0.25 %
	PEG-32	
B	Emulsogen® LS-24 Gel (Clariant)	4.00 %
	Sodium Laureth-13 Carboxylate	
	Glycol Distearate	1.50 %
C	Hostapon® SCB (Clariant)	35.00 %
	Coco Betaine (and) Sodium Cocoyl Isethionate	
	Phenoxetol® (Clariant)	1.00 %
	Phenoxyethanol	
	Panthenol	0.50 %
	Genamin® PQ 43 PB (Clariant)	1.00 %
	Polyquaternium-43	
	Genapol® LT (Clariant)	5.00 %
	PEG-150 Polyglyceryl-2 Tristearate, Laureth-3, Dipropylene Glycol	

Procedure

- I Combine components of A with stirring and mix until uniform.
- II Once all components have fully dissolved, heat to 70°C and add the components of B with stirring.
- III Mix until all components are dissolved and mixture is uniform.
- IV Remove heat and add components of C with stirring. Mix until uniform.

Hostapon® SCB: Versatile Primary Surfactant

Gentle Cleansing Water

1-AW-5

Hostapon® SCB provides gentle and effective cleansing.
 Polyglykol® 300, Polyglykol® 1500, and Velsan® P8-3 provide a light, conditioned feel.
 Velsan® SC boosts preservation of this low active surfactant formulation.

A	Genapol® G260 (Clariant) <i>Glycereth-26</i>	2.00 %
	Velsan® SC (Clariant) <i>Sorbitan Caprylate</i>	0.50 %
	Velsan® P8-3 (Clariant) <i>Isopropyl C12-15-Pareth-9-carboxylate</i>	2.00 %
	Phenoxetol® (Clariant) <i>Phenoxyethanol</i>	1.00 %
B	Tetrasodium EDTA	0.20 %
	Hostapon® SCB (Clariant)	17.00 %
	Coco Betaine (and) Sodium Cocoyl Isethionate	
	Polyglykol® 300 (Clariant) <i>PEG-6</i>	0.25 %
	Polyglykol® 1500 (Clariant) <i>PEG-32</i>	0.25 %
C	Emulsogen® HCO 040 (Clariant) <i>PEG-40 Hydrogenated Castor Oil</i>	2.00 %
D	Water	ad 100 %

Procedure

- I Combine components of A with stirring and mix until uniform.
- II Add the components of B with stirring.
- III Heat C in a separate vessel to 50°C until clear. Add C to B while stirring.
- IV Add D and mix until uniform

Hostapon® SCB: Versatile Primary Surfactant

Premium Cream Cleanser

1-AW-23

Creamy texture provides a luxury appearance

Hostapon® SCB and Hostapon® CT Paste provide gentle foaming

A	Water	ad 100 %
	Glycerin	2.00 %
	Polyglykol® 300 (Clariant)	0.25 %
	PEG-6	
	Polyglykol® 1500 (Clariant)	0.25 %
	PEG-32	
B	Hostaphat KL 340D (Clariant)	1.00 %
	Trilaureth-4 Phosphate	
	Cetearyl alcohol	3.00 %
	Hostacerin® SFO (Clariant)	0.80 %
	Sunflower Seed Oil Sorbitol Esters	
	Velsan® SC (Clariant)	2.00 %
	Sorbitan Caprylate	
	Velsan® D8P-3 (Clariant)	5.00 %
	Isopropyl PPG-2 Isodeceth-7 carboxylate	
C	Hostapon® SCB (Clariant)	35.00 %
	Coco Betaine (and) Sodium Cocoyl Isethionate	
	Hostapon® CT Paste (Clariant)	10.00 %
	Sodium Methyl Cocoyl Taurate	
	Phenonip® XB (Clariant)	1.00 %
	Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Propylparaben	
D	Genamin® PQ 43 PB (Clariant)	0.70 %
	Polyquaternium-43	

Procedure

- I Combine components of A with stirring and heating to 75°C.
- II Add the components of B with stirring.
- III Remove from heat and add C with stirring.
- IV Add D and mix until uniform

Hostapon[®] SG

Versatile Primary Surfactant

- Ultra Mild Shampoo
- Mild Effect Shower Gel
- Gentle Foaming Facial Wash

Hostapon® SG: Versatile Primary Surfactant

Ultra Mild Shampoo

BI 1169

*Mild surfactant blend makes shampoo ideal for color retention and sensitive scalp claims
High performance for everyday use shampoos*

A	Octopirox® (Clariant) <i>Piroctone Olamine</i>	0.10 %
	Water	ad 100 %
B	Sorbitol	1.00 %
C	Hostapon® SG (Clariant) <i>Sodium Cocoyl Glycinate</i>	30.00 %
	Genagen® KB (Clariant) <i>Coco-Betaine</i>	15.00 %
	Coco Glucoside	9.23 %
	Velsan® SC (Clariant) <i>Sorbitan Caprylate</i>	1.00 %
D	Citric Acid 25 %	approx. 3.25 %
E	Methylisothiazolinone	0.02 %

Procedure

- I Add B to A and stir until the solution is clear
- II Add C to I and stir until the solution is homogenous
- III Adjust the pH with D to 7.0 to 7.2
- IV Heat to approx. 40 ° C und stir until the solution is clear, then cool to room temperature
- V Add E to IV

Properties:

pH = 7.05

Viscosity (Brookfield DV-1+): 4220 mPas
(T-D, 20 rpm, 20 ° C)
RBC: 11 % Denaturation

Hostapon® SG: Versatile Primary Surfactant

Mild Effect Shower Gel

AI 8191

Mild, high foaming cleansers with suspension properties for body or hand

Formulation chassis ideal for high foaming, mild body or hand wash

A	Water	ad 100 %
B	I-Carrageenan	0.30 %
C	Hostapon® SG (Clariant) <i>Sodium Cocoyl Glycinate</i>	30.00 %
	Hostapon® CCG (Clariant) <i>Sodium Cocoyl Glutamate</i>	5.00 %
	Genagen® CAB 818 (Clariant) <i>Cocamidopropyl Betaine</i>	3.33 %
	Decyl Glucoside	2.36 %
D	Aristoflex® TAC (Clariant) <i>Ammonium Acryloyldimethyltaurate/Carboxyethyl Acrylate Crosspolymer</i>	1.50 %
E	Citric Acid 25 %	approx. 1.25 %
F	Nipaguard® DMDMH (Clariant) <i>DMDM Hydantoin</i>	q.s

Procedure

- I Dissolve B in A while stirring and heating to 40 ° C
- II Add the components of C and stir until completely dissolved
- III Slowly add D while stirring until homogenous
- IV Adjust pH with E to approx. 7
- V Re-heat the formulation to 50 ° C in case white flakes are occurring after pH adjustment
- VI Add F at room temperature

Properties:

pH = 7.00

Viscosity (Brookfield DV-1+):

2180 mPas (T-D, 20 rpm, 20 ° C)

RBC: 34 % Denaturation

Hostapon® SG: Versatile Primary Surfactant

Gentle Foaming Facial Wash

7-SM-11Bm

Sulfate-free facial wash with superior foam performance and mild surfactant blend

Ideal for sensitive skin claims, and gentle for anti-aging products

Surfactant chassis can be used for natural claims, ethoxylate-free, and leveraged to baby cleansers

A	Water	ad 100 %
	Genagen® KB (Clariant)	10.00 %
	<i>Coco Betaine</i>	
	Hostapon® SG (Clariant)	20.00 %
	Sodium Cocoyl Glycinate	
	Velsan® SC (Clariant)	0.60 %
	<i>Sorbitan Caprylate</i>	
	Glycerin	1.00 %
B	Phenoxetal® (Clariant)	1.00 %
	<i>Phenoxyethanol</i>	
C	Citric Acid	q.s.
	<i>50% solution in water</i>	
D	Sodium chloride	q.s

Procedure

- I Combine components of A with stirring and mix until uniform.
- II Add B and stir until completely dissolved
- III Adjust pH with C to 6.5-7.5
- V Adjust viscosity with D