

CosmeGreen™ HF30

INCI: Sodium Lauroyl Sarcosinate (and) Lauryl Betainamide Mesylate (and) Glycerin

Extra Mild Sulfate-Free Foamer

CosmeGreen™ HF30 is a **high natural origin foaming agent** designed for next-generation cleansing formulations. Its performance is driven by an **unique synergistic combination** of amino-acid based surfactants and glycine betaine derivatives. This innovative system delivers enhanced **foaming efficiency**, excellent **cleansing performance**, and **superior mildness**, making it particularly suitable for sulfate-free and skin friendly applications.

Benefits

- **Very low irritant potential** (as mild as biosurfactant)
- **Excellent foam stability**
- Rich and creamy foam
- Easy to use
- Designed from **Green Chemistry** principles
- **94% biobased material**
- **Renewable feedstock**

Applications:

- Shampoo
- Body Wash
- Facial cleanser
- ...

UPCYCLED MATERIAL FEEDSTOCKS

COST EFFECTIVE

FROM RSPO PALM DERIVATIVES

VEGAN COMPLIANT

MADE IN FRANCE

FOR HAIR AND SKIN



CosmeGreen™ HF30

INCI: Sodium Lauroyl Sarcosinate (and) Lauryl Betainamide Mesylate (and) Glycerin

Sustainability, Low Irritant Potential, Performances

CosmeGreen™ HF30 seeks **high-performance** with sulfate-free **foaming agents** for natural and sustainable **personal care products.**

Key Properties

- Clear yellow liquid
- Viscosity (25 °C) <200 mPa.s
- Density: 1.0 - 1.1
- pH: 8.0 - 9.6

Principal Uses

- Hair and skin products
- Shampoo: 3 - 35%
- Body wash: 3 - 15%
- Recommended pH range: 5.3 - 9.0

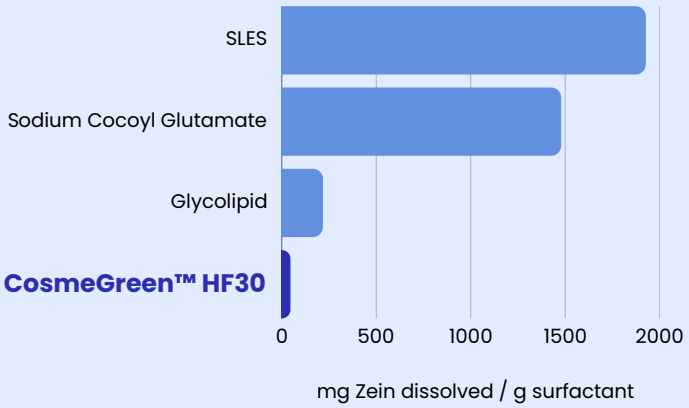
Sustainability

- No waste
- Solvent-free process
- Low energy manufacturing process

Impact of CosmeGreen HF30 on ...

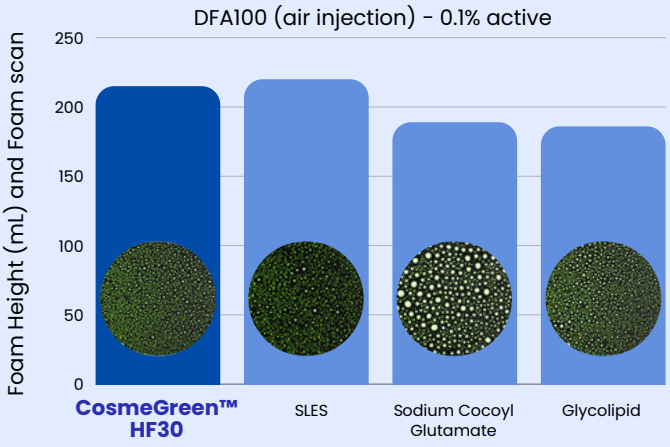
...Irritant Potential by Zein Test

pH = 5.5 ± 0.2



... Foaming properties

pH = 5.5 ± 0.2



Contact

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Why SurfactGreen?

SurfactGreen specializes in the research, development and production of high-performance biobased surfactants, offering an eco-responsible alternative to petroleum-based products such as SLES.

CosmeGreen™ HF30 Formulation Guide

Compatibility with typical rinse-off ingredients

30% of CosmeGreen HF30 (10% active) pH=5,5±0,2	Weight % (active)					
	0,1	0,2	0,5	1,0	2,0	5,0
Potassium Sorbate	✓	✓	✓			
Sodium Benzoate	✓	✓	✓	✓		
Benzyl Alcohol		✓	✓	✓		
Ethylhexylglycerin	✓	✓	✓	✓		
Panthenol			✓	✓	✓	
Hydrolyzed Rice Protein	✓	✓	✓	✓		
Betaine			✓	✓	✓	✓
Xanthan Gum *	✓	-	-			
Guar Hydroxypropyltrimonium Chloride **						

Not tested

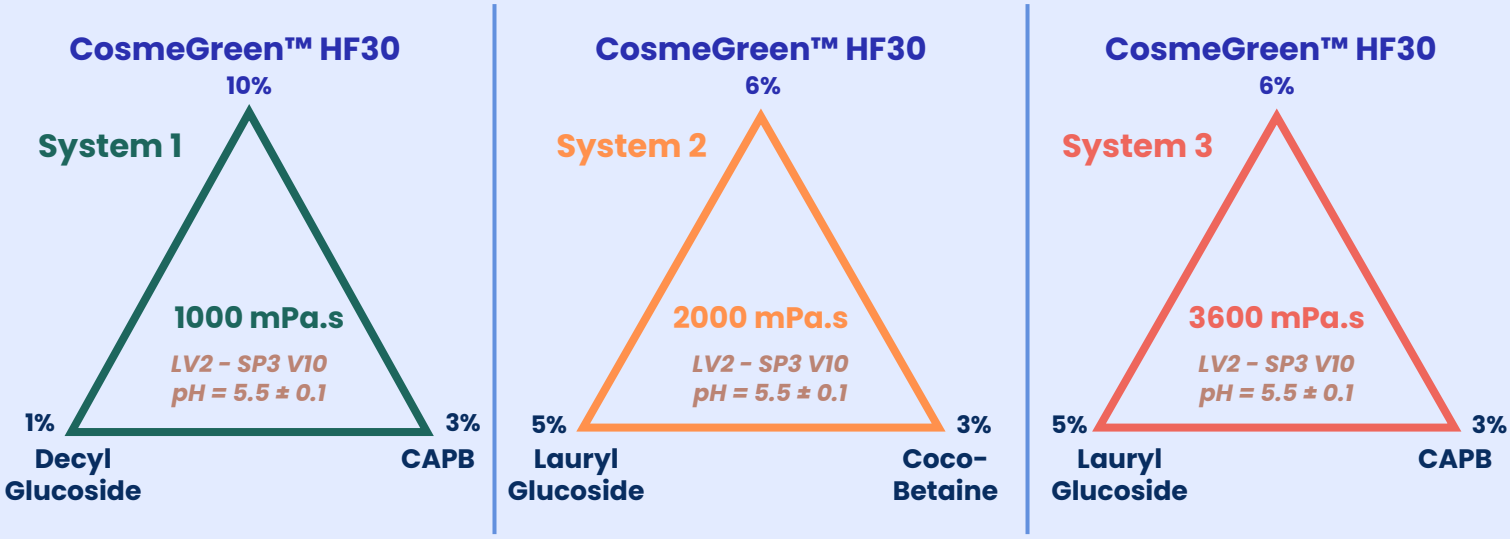
Opalescent

✓ *Clear*

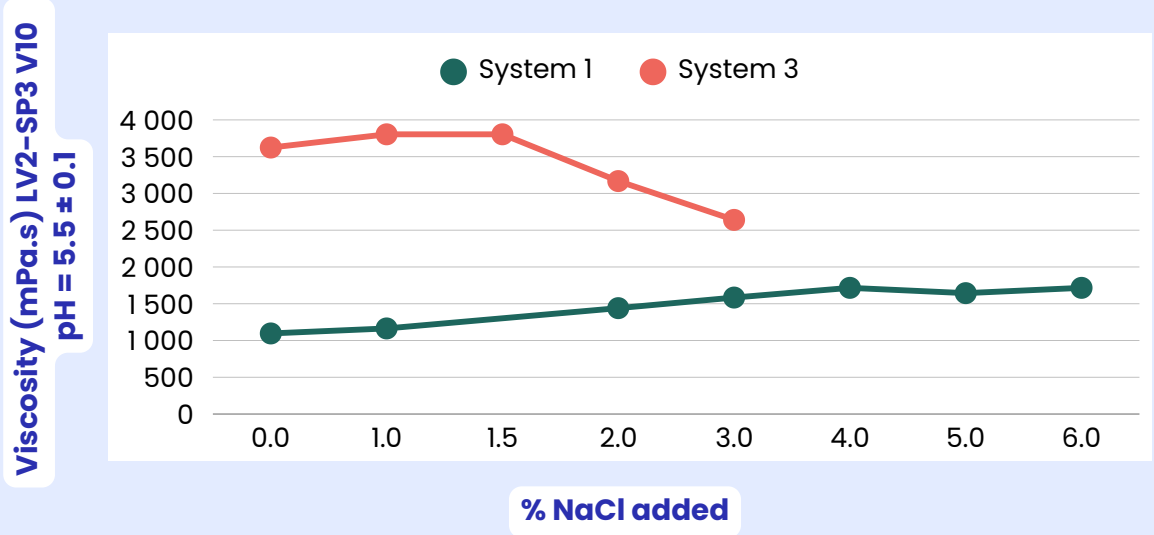
- *Turbidity*

* Xanthan Gum FEDCS-PC from JUNGBUNZLAUER, ** Dehyquart Guar TC from BASF

Building viscosity with surfactants association (active)



Building viscosity with salt



Verdena
COSMEGREEN

GOLD | Top 5%
ecovadis
Sustainability Rating
APR 2025

95% nat.

Extra Smooth Shampoo

Deep mildness
for your hair

CosmeGreen HF30

FORMULATION GUIDELINES

	Raw Materials	INCI	%
A	Water	Aqua	QS
B	**CosmeGreen HF30**	**Sodium Lauroyl Sarcosinate (and) Lauryl Betainamide Mesylate (and) Glycerin**	**33.2**
B	Decyl Glucoside	Decyl Glucoside	1.9
B	Dehyton K	Cocamidopropyl Betaine	10.1
C	Sodium Chloride	Sodium Chloride	4.0
C	Betaine	Betaine	2.0
D	Euxyl K712	Sodium Benzoate (and) Potassium sorbate	0.8
E	Citric Acid	Citric Acid	QS
			100

PREPARATION

- Place phase A under agitation.
- Add phase B ingredients one by one to phase A.
- Increase agitation before adding phase C ingredients one by one.
- Add phase D.
- Add phase E to adjust the pH at 5.5.

Verdena
COSMEGREEN

GOLD | Top 5%
ecovadis
Sustainability Rating
APR 2025

97.5% nat.

Rich & Silky Shampoo

Extra care for soft hair

CosmeGreen HF30

FORMULATION GUIDELINES

	Raw Materials	INCI	%
A1	Water	Aqua	QS
A2	Dehyquart Guar TC	Guar Hydroxypropyltrimonium Chloride	0.2
B	**CosmeGreen HF30**	**Sodium Lauroyl Sarcosinate (and) Lauryl Betainamide Mesylate (and) Glycerin**	**20.0**
B	Lauryl Glucoside	Lauryl Glucoside	10.0
B	Dehyton K	Cocoamidopropyl Betaine	10.0
C	Sodium Chloride	Sodium Chloride	1.0
D	Euxyl K712	Sodium Benzoate (and) Potassium Sorbate	0.8
E	Citric Acid	Citric Acid	QS
			100

PREPARATION

- Heat phase A1 to 50 °C under agitation.
- Add phase A2.
- Add phase B ingredients one by one to phase A.
- Allow to cool while increasing agitation.
- Add phase C at 35 °C.
- Add phase D.
- Add phase E to adjust pH at 5.5.

Tutorial formulation video

Verdena
COSMEGREEN

96.3% nat.

AquaPure Micellar

Ultra-gentle micellar cleansing

CosmeGreen HF30

FORMULATION GUIDELINES

	Raw Materials	INCI	%
A	Water	Aqua	QS
	CosmeGreen HF30	**Sodium Lauroyl Sarcosinate (and) Lauryl Betainamide Mesylate (and) Glycerin**	**3.0**
	Glycerin	Glycerin	3.0
	Propylene Glycol	Propylene Glycol	2.0
B	Vitamin B5	Panthenol (and) Aqua (and) Citric acid	2.7
C	Benzyl Alcohol	Benzyl Alcohol	0.8
D	Citric Acid	Citric Acid	QS
			100

PREPARATION

- Place phase A under agitation.
- Once homogeneous, add phase B.
- Once homogeneous, add phase C.
- Add phase D to adjust the pH at 5.5.

Verdena
COSMEGREEN

GOLD | Top 5%
ecovadis
Sustainability Rating
APR 2025

99% nat.

Soft Cleanser

Gentle daily foamer

CosmeGreen HF30

FORMULATION GUIDELINES

	Raw Materials	INCI	%
A	Water	Aqua	QS
	CosmeGreen HF30	**Sodium Lauroyl Sarcosinate (and) Lauryl Betainamide Mesylate (and) Glycerin**	**3.0**
	Glycerin	Glycerin	3.0
	Propylene Glycol	Propylene Glycol	2.0
B	Benzyl Alcohol	Benzyl Alcohol	0.8
C	Citric Acid	Citric Acid	QS
			100

PREPARATION

- Place phase A under agitation.
- Once homogeneous, add phase B.
- Add phase C to adjust the pH at 5.5.

Verdena
COSMEGREEN

GOLD | Top 5%
ecovadis
Sustainability Rating
APR 2025

98.3% nat.

Silky Body Wash

Gentle body cleanser

CosmeGreen HF30

FORMULATION GUIDELINES

	Raw Materials	INCI	%
A	Water	Aqua	QS
B	**CosmeGreen HF30**	**Sodium Lauroyl Sarcosinate (and) Lauryl Betainamide Mesylate (and) Glycerin**	**14.3**
	Lauryl Glucoside	Lauryl Glucoside	7.1
	Cocoamidopropyl Betaine	Cocoamidopropyl Betaine	7.2
C	Sodium Chloride	Sodium Chloride	1.0
D	Euxyl K712	Sodium Benzoate (and) Potassium Sorbate	0.8
E	Citric Acid	Citric Acid	QS
			100

PREPARATION

- Heat phase A to 50 °C under agitation.
- Add phase B ingredients one by one.
- Allow to cool while increasing agitation.
- Add phase C at 35 °C.
- Add phase D.
- Add phase E to adjust pH at 5.5.

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