

CARE SPECIALITIES

PROTELAN GG

A solution for ultra-mild
rinse-off formulations



ZSCHIMMER & SCHWARZ

PROTELAN GG

A solution for ultra-mild rinse-off formulations

Zschimmer & Schwarz offers a portfolio of high performance surfactants for various cosmetic products.

We will support you in choosing the right product for your application.

For ultra-mild formulations we recommend PROTELAN GG.

BENEFITS

- ▶ Surfactant combination based on amino acids
- ▶ Readily biodegradable
- ▶ Special surfactant mixture – low viscosity – easy to handle

The main surfactant in PROTELAN GG is cocoyl glycinate. Its ultra-mild properties are proven by extensive clinical and biochemical test series (Source, e.g.: J. Regan et al., *J. Clin. Aesthet. dermatol.*, 6 (6), 23 (2013)).

In a test with a facial cleanser (B 61/86) PROTELAN GG was replaced by other surfactants based on amino acids (equal amounts). In the average, a test panel of eight Zschimmer & Schwarz coworkers perceived the formulation as exceptional mild only when PROTELAN GG was used.

PRODUCT INFORMATION

INCI:	Sodium Cocoyl Glycinate, Sodium Cocoyl Glutamate
Appearance:	Clear to slightly turbid
Dry matter:	30%
pH value:	9

FACIAL CLEANSER (B 61/86)

INGREDIENTS	INCI	W/W %	SUPPLIER
PHASE A			
Fatty alcohol C 16-18	Cetearyl Alcohol	7.0	
Argan oil	Argania Spinosa Kernel Oil	1.5	
Joboba oil	Simmondsia Chinensis (Jojoba) Seed Oil	1.5	
Isopropyl myristate	Isopropyl Myristate	1.0	
Antioxidant	...	q.s.	
PHASE B			
Carbopol® ETD 2020 polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.5	Lubrizol
PHASE C			
PROTELAN GG	Sodium Cocoyl Glycinate, Sodium Cocoyl Glutamate	12.0	Z&S
PROTELAN AG 915 SF	Sodium Cocoyl Glutamate	11.0	Z&S
SETACIN F SPECIAL PASTE	Disodium Lauryl Sulfosuccinate	9.0	Z&S
PROTELAN LS 9011	Sodium Lauroyl Sarcosinate	3.0	Z&S
PROTELAN PCA 40	Sodium PCA (and) Glycerin	1.0	Z&S
Water	Aqua (Water)	up to 100.0	
PHASE D			
D-Panthenol, 75%	Panthenol	0.5	Biesterfeld
Perfume	Parfum (Fragrance)	1.0	
Preservative	...	q.s.	



THICKENING WITHOUT USING THICKENERS

By adding PROTELAN GG an already mild body shampoo (formulation B 75/321) becomes even milder. In this formulation there is no need for thickeners: It can easily be thickened by pH adjustment. The viscosity is about 5000 mPa*s at a pH value of approx. 5.5.

SHAMPOO (B 75/321, PRELIMINARY)

INGREDIENTS	INCI	W/W %	SUPPLIER
PHASE A			
LUMOROL K 5303	Sodium Lauroyl Sarcosinate, Sodium Lauryl Sulfoacetate	21.0	Z&S
AMPHOTENSID B 5	Cocamidopropyl Betaine	13.0	Z&S
PROTELAN GG	Sodium Cocoyl Glycinate, Sodium Cocoyl Glutamate	5.0	Z&S
Merquat™ 2001N polymer	Polyquaternium-47	0.8	Lubrizol
Perfume	Parfum (Fragrance)	0.3	
Preservative	...	q.s.	
Water	Aqua (Water)	59.9	



Chemistry tailor-made

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