

- conditioning shampoo ▪ mild cleansing for hair & body ▪ no build-up ▪ creamy foam ▪ natural softness ▪
- <10% certified upcycled ingredient² ▪

Phase	Ingredient	INCI	Supplier	% ww
A1	Deionised Water	Aqua		25.37
	ESAFLOR® PFT	Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	Lamberti	0.25
	Citric Acid (solution 45%)	Citric Acid		0.08
A2	AMIDET® APA-22	Behenamidopropyl Dimethylamine	Kao	0.30
	Citric Acid (solution 45%)	Citric Acid		0.80
B	LibraCare APG 1214	Lauryl Glucoside, Aqua	Libra	8.00
	BETADET® SH-R	Cocamidopropyl Hydroxysultaine, Aqua	Kao	14.00
	Eucarol® AGE EC	Disodium Alkylpolyglucose Citrate	Lamberti	10.00
	ALPICARE GL 612	Disodium Cocoyl Glutamate, Aqua	Lamberti	7.00
C	Verstatil® SL	Aqua, Sodium Levulinate, Potassium Sorbate	Evonik Dr. Straetmans	2.50
	GENENCARE® OSMS BA	Betaine	IFF	1.00
	Comp. 80.2282 Wellness Tropical Fruit	Parfum	Lothar Streeck	0.40
	Deionised Water	Aqua		30.00
D	Citric Acid (solution 45%)	Citric Acid		0.30
				100.00

¹ Calculation by including formulation water according to ISO 16128.

² Formulation contains ingredient(s), which is/are eligible for upcycled ingredient certification according to Upcycled Food Association (UFA).

Product Features

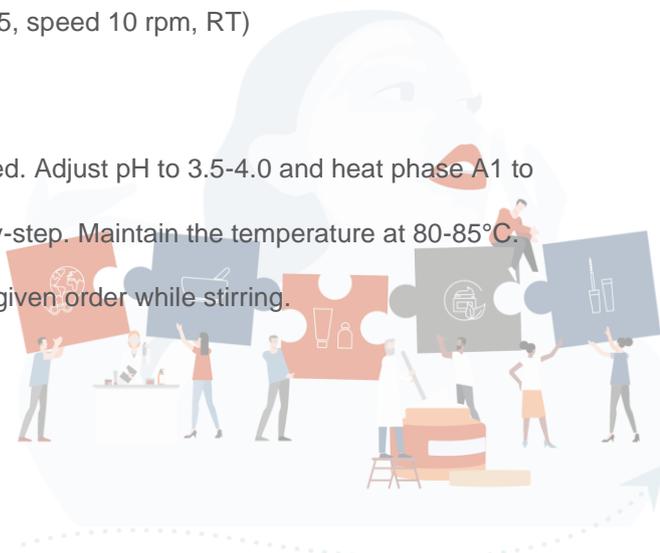
Appearance: Light yellow, slightly translucent gel
 pH: 4.75-5.25
 Viscosity: 14,500-17,500 mPas (Haake Visko, Tester 6R, spindle 5, speed 10 rpm, RT)
 Stability: Stable for more than 3 months at 4°C, 20°C and 40°C.

Manufacturing Procedure

1. Dissolve ESAFLOR® PFT in water and stir until completely dissolved. Adjust pH to 3.5-4.0 and heat phase A1 to 80- 85°C.
2. Simultaneously add the ingredients of phase A2, slowly and step-by-step. Maintain the temperature at 80-85°C. Continue stirring until completely dissolved.
3. Cool down to <60°C and add ingredients of phase B one by one in given order while stirring.
4. Add phase C while stirring until completely dissolved.
5. Adjust pH to 4.75-5.25.

Application Advice

Apply shampoo on wet hair and rinse thoroughly.



Biesterfeld Products

ALPICARE GL 612		
Mild anionic surfactant	EO-free	Conditioning effect
Improved sensory	89% natural origin	RSPO MB available
Vegan	COSMOS-certified	NATRUE-certified
AMIDET® APA-22		
Cationic conditioning agent	Improved wet and dry combing	Anti-static effect
Smooth touch	82% natural origin	Palm-free
Vegan		
BETADET® SH-R		
Mild amphoteric surfactant	EO-free	Foam booster
Enhances foam quality	Improved thickening	83% natural origin
RSPO MB available	Vegan	
Comp. 80.2282 Wellness Tropical Fruit		
Fragrance	Palm-free	Vegan
ESAFLOR® PFT		
Sustainable cationic guar	Conditioning agent	Detangling
Enhanced sensory	70% natural origin	Palm-free
Vegan		
Eucarol® AGE EC		
Mild anionic surfactant	EO-free	Good foaming ability
Effective cleaning	95% natural origin	RSPO MB available
Vegan	COSMOS-certified	NATRUE-certified
GENENCARE® OSMS BA		
Natural osmolyte	Moisturizing agent	Hair conditioner
Hair strengthening	Foam improvement	Reduced irritation effect of surfactants
Certified as upcycled ingredient	100% natural origin	Palm-free
Vegan	COSMOS-certified	NATRUE-certified
CO ₂ neutral		
LibraCare APG 1214		
Mild non-ionic surfactant	EO-free	100% natural origin
RSPO MB available	Vegan	COSMOS-conform
Verstail® SL		
Preservative blend	90% natural origin	Palm-free
Vegan		