

Starting point formulation – Professional hand wash – clean hands

This formulation removes even stubborn dirt such as oil, tar and bitumen. At the same time, the skin is protected by the moisturizing emollient and the mild solvent used. The rheological additives **CLAYTONE-VZ V** and **CLAYTONE APA-V** stabilize this professional hand wash formula and keep the particles in suspension.

Formulation

Position	Component	INCI	Supplier	Function	Dosage (%)
1	DBE-5	Dimethyl Glutarate	Lemro	Solvent	49.50
2	CAB-Ester 381.20	Cellulose Acetate Butyrate	Eastman	Thickener	0.75
3	Cetiol 868	Ethylhexyl Stearate	BASF	Emollient	4.00
4	CLAYTONE-VZ V	Stearalkonium Bentonite	BYK	Rheology modifier	3.00
4	CLAYTONE-APA V	Stearalkonium Bentonite	BYK	Rheology modifier	1.80
5	Propylene Carbonate Solvagreen > 99.7 %	Propylene Carbonate	Carl Roth	Activator	1.50
6	Marlipal 24/60	Laureth-6	Sasol	Surfactant	19.20
7	Olive Stone Granules	Olea Europaea Seed Powder	Bio Powder	Scrubbing agent	16.50
7	UNIPURE WHITE LC981 AS-EM	Titanium Dioxide	Sensient	Colorant	0.25
8	Bio SAP Z 4075 fines	Croscamellose Sodium	Stockhausen Superabsorber	Dirt absorber	2.00
9	Aerosil 200	Silica	Evonik	Thickener	1.00
9	Parfum	Parfum		Fragrance	0,50
Total					100.00

CLAYTONE VZ-V and **CLAYTONE APA-V** are organically modified bentonites with stabilizing and viscosity increasing properties.

Instructions (manufacturing procedure)

- Add DBE-5 into a beaker.
- Add CAB-Ester 381.20 while string(wingstirrer) 800 rpm until you get a clear solution. Light viscosity built-up.
- Add Cetiol 868 while stirring (wingstirrer) 800 rpm.
- One after the other add both CLAYTONE-types while stirring (wingstirrer) 800 rpm. Stir 5 min longer.
- Homogenize with ultra turrax 2 min (1,000 rpm).
- Add proppylen carbonate.
- Homogenize with ultra turrax 2 min (1,000 rpm).
- Add Marlipal 24/60 and stir until it is homogenous (wingstirrer) 500 rpm.
- One after the other add Olve Stone Granules, Unipure White and Bio SAP Z4075 fines und stirr until it is a homogenius suspension (wingstirrer) 5 min 600 rpm.
- Homogenize once more with ultra turrax 1 min 10,000 rpm.
- At last add Aerosil und the fragrance and stir until its an homogenous suspension (wingstirrer) 5 min 500 rpm.

Characteristic data

- Appearance: beige, viscous suspension.
- Storage stability: 3 months at 40 °C.



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