



W/O Sun Face Fluid (Shake Shake) SPF 20 UVA

„Formulated and developed by EVONIK industries AG“

Ingredients	INCI-Name	%w/w	Supplier
Phase A			
ABIL [®] EM 90	Cetyl PEG / PPG- 10 /1 Dimethicone	1,00	EVONIK industries AG
TEGOSOFT [®] XC	Phenoxyethyl Caprylate	11,00	EVONIK industries AG
TEGOSOFT [®] DEC	Diethylhexyl Carbonate	2,50	EVONIK industries AG
TEGO [®] Sun T 805	Titanium Dioxide; Trimethoxycaprylylsilane	2,00	EVONIK industries AG
Cyclomethicone	Cyclomethicone	12,00	
Octocrylene	Octocrylene	6,00	
Ethylhexyl Salicylate	Ethylhexyl Salicylate	2,00	
Butyl Methoxydi- benzoylmethane	Butyl Methoxydibenzoylmethane	0,80	
Tinosorb S	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	1,50	BASF SE
Antarone V- 216	VP / Hexadecane Copolymer	0,50	ISP
Phase B			
Water	Aqua	4,43	
Sodium Hydroxide	Sodium Hydroxide	0,07	
Eusolex 232	Phenylbenzimidazole Sulfonic Acid	0,50	Merck
Phase C			
Water	Aqua	46,40	
Glycerin	Glycerin	6,00	
CORN PO4 PH B	Distarch Phosphate	1,50	AGRANA
Alcohol	Alcohol	1,00	
Phase D			
Microcare MEM		0,80	Thor GmbH
Phase E			
Perfume	Perfume	q.s	



PROCEDURE

1. Heat phase A to approx. 85° C
2. Disperse TEGO® Sun T 805 in phase A.
3. Prepare phase B (neutralization of Eusolex 232).
4. Add phase C to phase B.
5. Add phase B / C (80° C or room temperature) while stirring to phase A.
6. Homogenise for a short time.
7. Cool with gentle stirring and add phase D below 40° C.
8. Homogenize again below 30° C.

REMARKS

SPF** (in vitro): 22

UVA Balance**: 34%

Critical Wavelength**: 374

Calculated values***

SPF: 20

UVA-Balance: 24

* Colipa International Test Method 2006

** Labsphere 2000S; 1, 0 mg /cm²; on PMMA Slide

*** BASF Sunscreen Simulator

This formulation is indicative only and no responsibility whatsoever will be assumed. This formulation is offered solely for your consideration, investigation and verification. It is your responsibility to thoroughly test any formulations before use. All those who use our formulations as well as those who process AGRANA Starches are themselves entirely responsible for the adherence to prevailing statutory regulations and the observance of patent rights as well as other protective rights for other companies. AGRANA does not assure any liability with respect to the composition of the formulation or the use in products.