

Multiple textures, multifunctional products and consumers increasingly in search of unique and innovative experiences

In a world where people increasingly value experiences through the products they consume, the variety of cosmetic formulations grows. Creams, sprays, mousses, among others with considerable quantity of pigments and skin actives like make-up and products with high SPF bring a series of technical challenges, especially when it comes to stabilization.

But how can we get completely stable formulations in less time and with the best cost-in-use?

dsm-firmenich, a pioneer in potassium phosphate technology, presents a definitive emulsifying solution.

AMPHISOL® K

Ultimate stability for multi formulations



AMPHISOL® K

Ultimate stability for multi formulations

A high-performance PCP emulsifier for the most challenging formulations. A unique solution for the creation of innovative textures and applications, which place you and your company in a leading position in an increasingly competitive market.

This is possible through the exclusive microdomains technology, capable of stabilizing the most versatile combinations of ingredients with high amounts of pigments, electrolytes, ethanol and oil, from sunscreens to makeup.

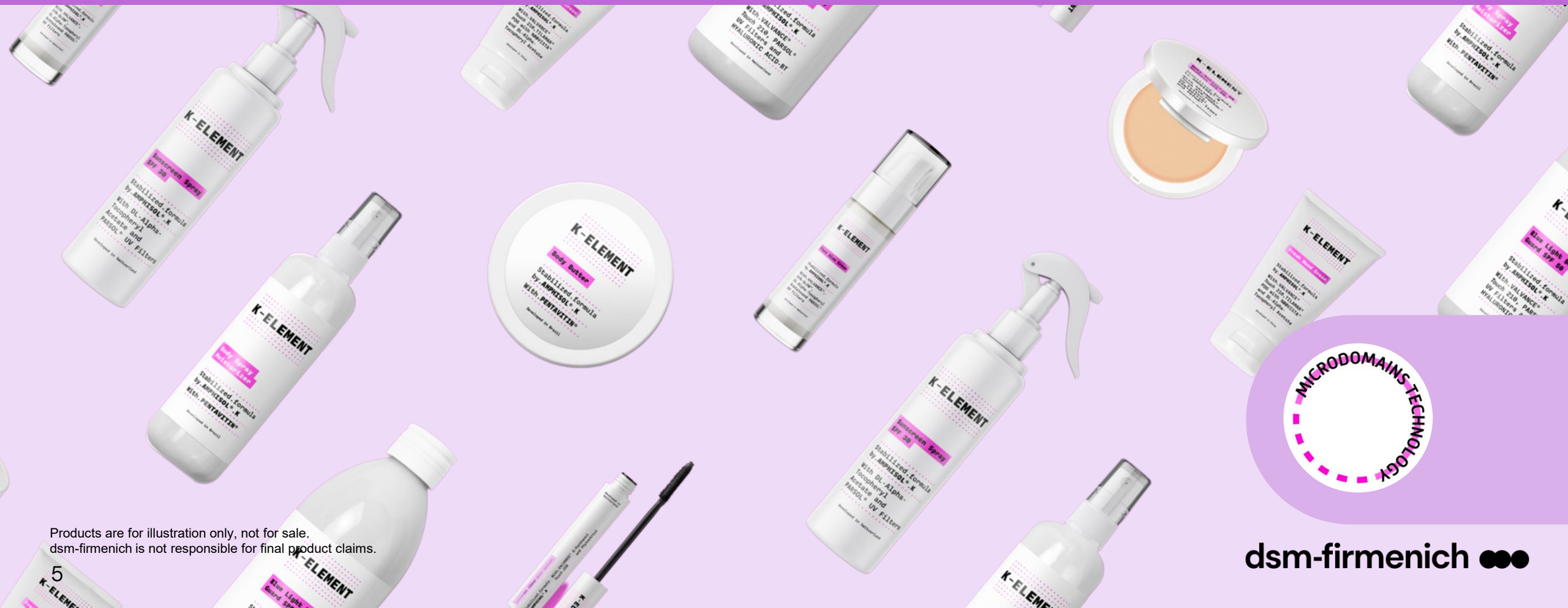
AMPHISOL® K can also be used as a co-emulsifier, making processing easier whilst keeping costs under control.



An extensive, uniform and unique formation of self-organizing molecules that guarantee maximum stability.

Stabilized formula by AMPHISOL® K

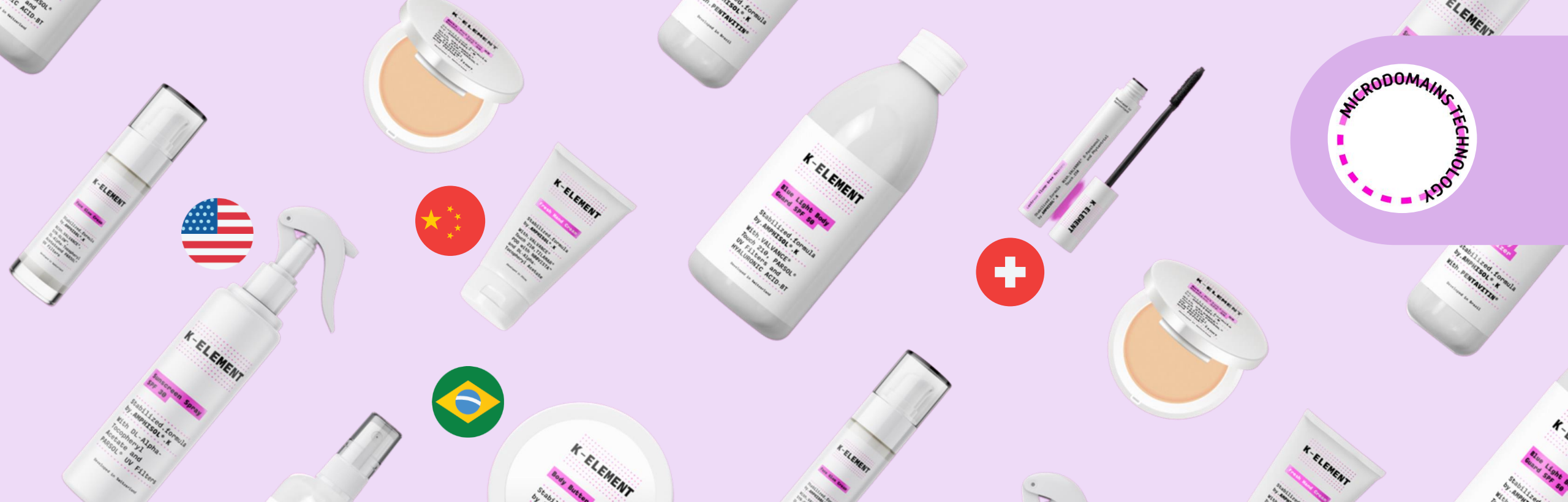
Ultimate stability for multi formulations



Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.



dsm-firmenich 



K-ELEMENT

Ultimate stability for multi formulations

With AMPHISOL® K, the ultimate emulsifying solution for innovative skin care formulations, K-ELEMENT provides a unique sensory experience through maximizing balance and stability between ingredients.

A versatile line, with multiple textures and applications, offering the highest performance to the last drop of the product.

Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.

dsm-firmenich 

Body Butter

Stabilized formula by AMPHISOL® K
With PENTAVITIN®

A feeling of comfort with a buttery yet non-sticky texture and, which envelops the skin with a velvety and comforting touch.



Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.

Phase	Ingredients	INCI Name	% w/w
A	Water Dem	AQUA	75,60
	Edeta BD	DISODIUM EDTA	0,10
	Carbopol Ultrez 10	CARBOMER	0,30
	Tris Amino Ultra PC	TROMETHAMINE	0,50
	Glycerin 99.5%	GLYCERIN	2,00
B	DUB MCT 5545	CAPRYLIC/CAPRIC TRIGLYCERIDE	8,00
	DUB B1215	C12-15 ALKYL BENZOATE	2,00
	BELSIL DM 100	DIMETHICONE	2,00
	Shea butter	BUTYROSPERMUM PARKII BUTTER	2,00
	DUB SHOREA T	SHOREA ROBUSTA SEED BUTTER	1,00
	AMPHISOL® K	POTASSIUM CETYL PHOSPHATE	2,00
	Lanette D	CETEARYL ALCOHOL	2,00
C	Euxyl PE 9010	PHENOXYETHANOL, ETHYLHEXYLGLYCERIN	1,00
D	PENTAVITIN®	SACCHARIDE ISOMERATE, AQUA, CITRIC ACID, SODIUM CITRATE	1,00
E	SHP Ambree Silver Prada	PARFUM	0,50

SK-L-101679-3

K-ELEMENT



An extensive, uniform and unique formation of self-organizing molecules that guarantee maximum stability.

Procedure

1. In water phase, make Carbopol dispersion, and then add the Tromethamine. Heat up to 80°C under stirring.
2. Heat phase B up to 85°C under stirring. Add phase B to A and homogenize the emulsion.
3. Cool down to 40°C under gentle stirring. Add preservative, PENTAVITIN®, fragrance and homogenize.

Technical Data

pH: 7.0

Blue Light Body Guard SPF 50

Stabilized formula by AMPHISOL® K
With VALVANCE® Touch 210, PARSOL® UV Filters, and HYALURONIC ACID-BT

Your skin is totally protected from sunlight as well as blue light with this soft texture protector, dry to the touch and with all the hydrating power of hyaluronic acid.



Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.

K-ELEMENT



An extensive, uniform and unique formation of self-organizing molecules that guarantee maximum stability.

Phase	Ingredients	INCI Name	% w / w
A	PARSOL® EHS	ETHYLHEXYL SALICYLATE	5,00
	PARSOL® HMS	HOMOSALATE	10,00
	Finsolv TN	C12-15 ALKYL BENZOATE	5,00
	Lexfeel WOW	C13-16 ISOPARAFFIN, TRIHEPTANOIN	2,00
B	UVAorb HEB	DIETHYLHEXYL BUTAMIDO TRIAZONE	4,00
C	Lanette 18	STEARYL ALCOHOL	0,40
	AMPHISOL® K	POTASSIUM CETYL PHOSPHATE	0,80
	Emulium Mellifera MB	POLYGLYCERYL-6 DISTEARATE, JOJOBA ESTERS, POLYGLYCERYL-3 BEESWAX, CETYL ALCOHOL	4,00
	Eldew SL-205	ISOPROPYL LAUROYL SARCOSINATE	5,00
	PARSOL® Shield	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	4,00
	PARSOL® 1789	BUTYL METHOXYDIBENZOYLMETHANE	5,00
	VALVANCE® Touch 210	SILICA	3,00
D	Sepinov EMT 10	HYDROXYETHYL ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE COPOLYMER	0,50
E	Keltrol CG-T	XANTHAN GUM	0,20
	1,3 Butylene Glycol cos grade	BUTYLENE GLYCOL	3,00
F	Edeta BD	DISODIUM EDTA	0,10
	WATER DEM.	AQUA	42,95
	PARSOL® MAX	METHYLENE BIS-BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL, AQUA, DECYL GLUCOSIDE, PROPYLENE GLYCOL, XANTHAN GUM	4,00
	HYALURONIC ACID-BT	SODIUM HYALURONATE	0,05
	ADEKA NOL NHG	HEXYLGLYCERIN	0,50
	SymSave H	HYDROXYACETOPHENONE	0,50

SU-E-100116-55

Procedure

1. Mix Phase A
2. Add B to A under stirring to avoid aggregates and heat up to 85°C until a clear solution is obtained.
3. Add one by one ingredients of Phase C to A+B under stirring.
4. Add D to A+B+C under stirring.
5. Mix Phase E.
6. Mix Phase F and heat up to 85°C. Add E to F under stirring.
7. Add E+F to A+B+C+D and homogenize.
8. Cool down to room temperature under gentle stirring.

Technical Data

pH: 6.0 +/- 0.5
SPF*:50
Viscosity (Brookfield RV5/10rpm): 25000 mPa.s
In vitro UVAPF* (Colipa 2011): 19.8
UVAPF/SPF* (50 labeled); >= 0.33: 0.40
Critical Wavelength*: 380 nm
(Measurement done with Labsphere equipment)

UV filter combination does not comply with applicable EU Cosmetic Regulation

Lustrous Clump-free Mascara

Stabilized formula by AMPHISOL® K
With VALVANCE® Touch 250, D-Panthenol 75 L and Phytantriol

Powerful eyes with this great coverage pigment mask for high-definition eyelashes.



Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.

K-ELEMENT



An extensive, uniform and unique formation of self-organizing molecules that guarantee maximum stability.

Phase	Ingredients	INCI Name	% w / w
A	Huile de Paraffine Codex AAB2	PARAFFINUM LIQUIDUM	5.00
	CERAUBA T1 Bio	COPERNICIA CERIFERA CERA	3.50
	Kahlwax 8104	CERA ALBA	5.00
	Tego® Alkanol 16	CETYL ALCOHOL	5.00
	AMPHISOL® K	POTASSIUM CETYL PHOSPHATE	3.00
B	Water dem.	AQUA	45.15
	Natrosol™ 250 HR	HYDROXYETHYLCELLULOSE	0.50
	Glycerin 99.5%	GLYCERIN	3.00
	SOLAGUM™ AX	ACACIA SENEGAL GUM, XANTHAN GUM	0.20
	Water dem.	AQUA	15.00
	Eastman AQ™ Polymer 55 S	POLYESTER-5, SODIUM ACETATE	5.00
	Unipure Black LC989 SGP	CI 77499, SODIUM GLYCEROPHOSPHATE	6.00
C	VALVANCE® Touch 250	SILICA, METHICONE	1.50
D	D-Panthenol 75 L	PANTHENOL, AQUA	0.50
E	Phytantriol	PHYTANTRIOL	0.50
	Euxyl® PE 9010	PHENOXYETHANOL, ETHYLHEXYLGLYCERIN	1.00
	Emprove® Sodium Hydroxide Pellets	SODIUM HYDROXIDE	0.15

SU-E-101219-01

Procedure

1. Weight components of phase A. Stir and heat up to 85°C until homogenous.
2. Weight water of phase B. Start stirring and heating. At 60°C, add slowly the hydroxyethylcellulose 250 HR while stirring for 20 minutes and heat up. At 75°C add premix Glycerine + Acacia Senegal Gum, Xanthan Gum and stir for 10 minutes.
3. Weigh water of phase B, stir and heat to 80°C. Solubilize Eastman AQ™ Polymer 55 S in water.
4. Then add C to B.
5. Add D to B+C, homogenize.
6. At 80°C, add A to B+C+D under stirring and homogenize strongly for 1 minute.
7. Start cooling down under gentle stirring.
8. At 50°C, introduce one by one components of phase E. Check the homogeneity between each step.
9. Homogenize for 30 seconds.
10. Cool down to RT, check the pH (5.0–6.0) and adjust if necessary.

Face Glow Cream

K-ELEMENT

Stabilized formula by AMPHISOL® K
With VALVANCE®, SYN-GLOW®, DL-alpha-Tocopheryl Acetate, and PARSOL® UV Filters

For naturally tanned and healthy skin from the inside out, with a long-lasting effect, soft to the touch and high in hydration.



An extensive, uniform and unique formation of self-organizing molecules that guarantee maximum stability.



Phase	Ingredients	INCI Name	% w / w
A	WATER DEM.	AQUA	50,10
	Edeta BD	DISODIUM EDTA, AQUA	0,10
B	Makilene GC	BUTYLENE GLYCOL	3,00
	SILIGEL	XANTHAN GUM, SCLEROTIUM GUM, LECITHIN, PULLULAN	0,80
C	AMPHISOL® K	POTASSIUM CETYL PHOSPHATE	1,80
	PARSOL® HMS	HOMOSALATE	5,00
	PARSOL® EHS	ETHYLHEXYL SALICYLATE	5,00
	PARSOL® 1789	BUTYL METHOXYDIBENZOYLMETHANE	3,00
	PARSOL® 340	OCTOCRYLENE	6,00
	PARSOL® SLX	POLYSILICONE-15	0,90
	PARSOL® MCX	ETHYLHEXYL METHOXYCINNAMATE	3,00
	EMOGREEN L19	C15-19 ALKANE	2,50
	DL-alpha-Tocopheryl Acetate	TOCOPHERYL ACETATE	1,00
	Lanette O	CETEARYL ALCOHOL	2,00
D	Aristoflex Silk	SODIUM POLYACRYLOYLDIMETHYL TAURATE	0,50
	Hallbrite BHB	BUTYLOCTYL SALICYLATE	5,00
	VALVANCE® Touch 250	SILICA, DIMETHICONE	1,00
E	VALVANCE® Touch 210	SILICA	1,00
	Euxyl PE 9010	PHENOXYETHANOL, ETHYLHEXYLGLYCERIN	1,00
	Perfume Vanille douce RS86015	PARFUM	0,30
	SYN-GLOW®	GLYCERIN, AQUA, BENZOYL DIPEPTIDE-18 D-PHENYLALANYL ARGINYL D-TRYPTOPHAN DIPROPYLAMIDE MESYLATE	3,00
F	Cameleon Yellow	CELLULOSE ACETATE, TITANIUM DIOXIDE, CI 77492, PROPYLENE GLYCOL STEARATE, ACRYLATES/AMMONIUM METHACRYLATE COPOLYMER, MAGNESIUM STEARATE	2,250
	Cameleon Black	CELLULOSE ACETATE, TITANIUM DIOXIDE, CI 77499, PROPYLENE GLYCOL STEARATE, ACRYLATES/AMMONIUM METHACRYLATE COPOLYMER, MAGNESIUM STEARATE	0,075
	Cameleon Red	CELLULOSE ACETATE, TITANIUM DIOXIDE, CI 77491, PROPYLENE GLYCOL STEARATE, ACRYLATES/AMMONIUM METHACRYLATE COPOLYMER, MAGNESIUM STEARATE	0,675
	Cameleon White	CELLULOSE ACETATE, TITANIUM DIOXIDE, PROPYLENE GLYCOL STEARATE, ACRYLATES/AMMONIUM METHACRYLATE COPOLYMER, BORON NITRIDE	1,000

SK-E-101343-19

Procedure

1. Premix phase A under stirring.
2. Premix phase B and add it to phase A under stirring.
Heat phase A+B up to 85°C.
3. Mix phase C and heat it up to 85°C under stirring.
Add phase C into phase A+B and homogenize with high shear.
4. Cool the formulation down to room temperature under stirring.
5. Add phase D under stirring.
6. Below 40°C add the ingredients of phase E under stirring.
7. Premix phase F and carefully add it to the formulation under stirring.
8. Adjust the pH around 5.50 if necessary.

Technical Data

pH: 7 – 7.5
Viscosity (Brookfield RV6/10rpm): 29 000 mPa.s
SPF expected: 30



Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.

Fresh Hand Cream

Stabilized formula by AMPHISOL® K
With VALVANCE® Touch 210 and DL-alpha-Tocopheryl Acetate

A touch of softness for your hands with this refreshing cream.
Fast in absorption and high in nourishing power.



Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.

K-ELEMENT



An extensive, uniform and unique formation of self-organizing molecules that guarantee maximum stability.

Phase	Ingredients	INCI Name	% w/w
A	Tego Care 450 MB	POLYGLYCERYL-3 METHYLGLUCOSE DISTEARATE	1,20
	JNA-CS50	CETEARYL ALCOHOL	1,00
	Arlacel 165	GLYCERYL STEARATE, PEG-100 STEARATE	1,00
	SALACOS 816T	CETYL ETHYLHEXANOATE	8,00
	Shea butter	BUTYROSPERMUM PARKII BUTTER	2,00
	AMPHISOL® K	POTASSIUM CETYL PHOSPHATE	1,00
B	XIAMETER PMX-0345	CYCLOPENTASILOXANE, CYCLOHEXASILOXANE	5,00
C	Water Dem	AQUA	32,11
	Tris Amino Ultra PC	TROMETHAMINE	0,19
	Glycerin 99.5%	GLYCERIN	5,00
	Phenoxyethanol	PHENOXYETHANOL	0,35
	Sensiva SC 50	ETHYLHEXYLGLYCERIN	0,05
	Propanediol	PROPANEDIOL	1,00
D	Edeta BD	DISODIUM EDTA	0,05
	Gransil PSQ	POLYMETHYLSILSESQUOXANE	0,70
	VALVANCE® Touch 210	SILICA	1,00
E	Water Dem	AQUA	35,00
	Flogel FG 700	CARBOMER	0,35
F	DL-alpha-Tocopheryl Acetate	TOCOPHERYL ACETATE	5,00

SK-E-800040-1

Procedure

1. Mix all ingredients of phase A and heat up to 75°C.
2. Mix all ingredients of phase C and heat up to 75°C.
3. Add phase C into phase A under homogenize with the speed of 5000rpm for 3min Add phase B into product under homogenize with the speed of 5000rpm for 1min.
4. Add each ingredient of phase D into product under homogenize with the speed of 5000rpm for 1min.
5. Mix all ingredients of phase E into product under stirring until uniform Add phase E into product under homogenize with the speed of 5000rpm for 2min.
6. Cool down under stirring add phase F into product below 40 °C.

Technical Data

pH: 6.2
Viscosity (Brookfield LV3/12rpm, 22,8°C): 8499 mPa.s

Body Spray Moisturizer

Stabilized formula by AMPHISOL® K
With PENTAVITIN®

A revitalizing touch for your day-to-day with this ultralight texture moisturizer with fast absorption, providing a wonderfully soft skin feeling.



Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.

Phase	Ingredients	INCI Name	% w/w
A	WATER DEM.	AQUA	80,40
	Glycerin 99.5%	GLYCERIN	2,00
	Edeta BD	DISODIUM EDTA	0,10
B	DUB MCT 5545	CAPRYLIC/CAPRIC TRIGLYCERIDE	8,00
	DUB B1215	C12-15 ALKYL BENZOATE	2,00
	Phytosqualan	SQUALANE	2,00
	CETYL ALCOHOL PS	CETYL ALCOHOL	1,00
	AMPHISOL® K	POTASSIUM CETYL PHOSPHATE	1,00
C	Euxyl PE 9010	PHENOXYETHANOL, ETHYLHEXYLGLYCERIN	1,00
	SIMULGEL INS 100	HYDROXYETHYL ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE COPOLYMER, ISOHEXADECANE, POLYSORBATE 60	1,00
D	PENTAVITIN®	SACCHARIDE ISOMERATE, AQUA, CITRIC ACID, SODIUM CITRATE	1,00
E	SHPO407 Elixir Extreme	PARFUM	0,50

SK-L-101677-5

K-ELEMENT



An extensive, uniform and unique formation of self-organizing molecules that guarantee maximum stability.

Procedure

1. Heat phase A up to 80°C.
2. Heat phase B up to 85°C under stirring. Add phase B to A and homogenize the emulsion.
3. Cool down to 40°C under gentle stirring. Add phase C and homogenize.
4. Add PENTAVITIN®, fragrance and homogenize again.

Technical Data

pH: 6.0

Anti-Pollution BB Cushion SPF 30

Stabilized formula by AMPHISOL® K

With VALVANCE® Touch 210, PARSOL® UV Filters, PENTAVITIN®, and PEPHA®-TIGHT CB

Reveal your natural beauty with this BB Cushion that provides lightweight coverage and effective oil control.



Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.

Phase	Ingredients	INCI Name	% w / w
A	X-Tend 226	PHENETHYL BENZOATE	6.00
	PARSOL® EHS	ETHYLHEXYL SALICYLATE	3.00
	KAK TCIN	TRICYCLODECANEMETHYL ISONONANOATE	2.00
	Finsolv TN	CI2-15 ALKYL BENZOATE	1.00
	Tego Alkanol 1618	CETEARYL ALCOHOL	0.80
	PARSOL® SLX	POLYSILICONE-15	1.50
	PARSOL® Shield	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	2.00
	PARSOL® TX	TITANIUM DIOXIDE, SILICA, DIMETHICONE	2.50
	AMPHISOL® K	POTASSIUM CETYL PHOSPHATE	3.00
	Cutina GMS V	GLYCERYL STEARATE	2.00
B	WATER DEM.	AQUA	51.99
	Edeta BD	DISODIUM EDTA	0.10
	Rhodicare T	XANTHAN GUM	0.30
	Structure XL	HYDROXYPROPYL STARCH PHOSPHATE, AQUA	2.00
	Unipure White LC981 SGP	CI 77891, SODIUM GLYCEROPHOSPHATE	6.00
	Unipure Yellow LC 182 SGP	CI 77492, SODIUM GLYCEROPHOSPHATE	0.75
	Unipure Black LC989 SGP	CI 77499, SODIUM GLYCEROPHOSPHATE	0.10
	Unipure Red LC 381 SGP	CI 77491, SODIUM GLYCEROPHOSPHATE	0.18
C	Chlorphenesin BP 73	CHLORPHENESIN	0.20
D	Spectrastat PHL	CAPRYLHYDROXAMIC ACID, 1,2-HEXANEDIOL, PROPANEDIOL	1.00
	PENTAVITIN®	SACCHARIDE ISOMERATE, AQUA, CITRIC ACID, SODIUM CITRATE	1.50
	PEPHA®-TIGHT CB	NANNOCHLOROPSIS OCULATA EXTRACT, PULLULAN, PENTYLENE GLYCOL, CITRIC ACID, AQUA	1.00
	Forever RS67550	PARFUM	0.30
	Sodium Hydroxide 20% Solution	SODIUM HYDROXIDE	0.55
E	VALVANCE® Touch 210	SILICA	0.50
	DUB HELIOPTIMA	DIISOPROPYL ADIPATE, PROPYLENE GLYCOL DICAPRYLATE/DICAPRATE, CI2-15 ALKYL BENZOATE, DIISOPROPYL SEBACATE	1.20
F	WATER DEM.	AQUA	5.00
	Sodium Hydroxide 20% Solution	SODIUM HYDROXIDE	2.03
	PARSOL® HS	PHENYLBENZIMIDAZOLE SULFONIC ACID	1.50

SU-E-101220-2

K-ELEMENT



An extensive, uniform and unique formation of self-organizing molecules that guarantee maximum stability.

Procedure

Phase A: Introduce ingredients until Tego Alkanol included and heat up to 85°C.

Add one by one the rest of the ingredients.
Homogenize 2 minutes at 9500 rpm.

Phase B: Introduce Water, EDTA and heat to 50°C.

Add slowly Rhodicare T and heat to 75°C.

Add Structure XL, keep stirring until homogenous and heat to 80°C. Add one by one the pigments and homogenize 5 minutes at 9500 rpm.

Emulsification: Add A to B under stirring and start cooling down. At 75°C, add C and homogenize 2 minutes at 9500 rpm. Keep cooling down under gentle stirring. At 35°C, add one by one ingredients of phase D and adjust if necessary, the pH to 7.0 minimum.

Phase E: Disperse VALVANCE™ Touch 210 in Dub Helioptima, homogenize if needed.

Add E to A+B+C+D and homogenize if necessary.

Phase F: Mix at RT and add it to A+B+C+D+E.
Check the pH (>7.0).

Technical Data

pH: 7 – 7.5

Viscosity (Brookfield RV5/20rpm): 5200 mPa.s

SPF in vivo: 47.2

(According to ISO SPF Test Method)

In vitro UVAPF (Colipa 2011): 11.0

UVAPF/SPF (30 labeled) >= 0.33: 0.37

Critical Wavelength (>370nm) : 382

(Measurement done with Labsphere equipment)

dsm-firmenich

Sunscreen Spray

Stabilized formula by AMPHISOL® K
and DL-alpha-Tocopheryl Acetate and PARSOL® UV Filters

A gentle and light sunscreen spray with an immediately invisible finish.



Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.

Phase	Ingredients	INCI Name	% w/w
A	PARSOL® 1789	BUTYL METHOXYDIBENZOYLMETHANE	3,00
	PARSOL® 340	OCTOCRYLENE	8,00
	PARSOL® EHS	ETHYLHEXYL SALICYLATE	5,00
	PARSOL® HMS	HOMOSALATE	10,00
	AMPHISOL® K	POTASSIUM CETYL PHOSPHATE	0,75
	Ecorol 16/98P	CETYL ALCOHOL	0,30
	Antaron V-220	VP/EICOSENE COPOLYMER	1,00
	Cetiol C5	COCO-CAPRYLATE	2,50
	Cetiol CC	DICAPRYLYL CARBONATE	3,00
	dl-alpha-Tocopheryl Acetate	TOCOPHERYL ACETATE	0,50
B	Pemulen TR-2	ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	0,20
C	WATER DEM.	AQUA	5,45
	1,3-Butylenglycol	BUTYLENE GLYCOL	5,00
	Edeta BD	DISODIUM EDTA	0,10
D	Triethanolamine Care	TRIETHANOLAMINE	0,20
E	Euxyl PE 9010	PHENOXYETHANOL, ETHYLHEXYLGLYCERIN	1,00
F	Ethanol abs.	ALCOHOL	5,00

SU-E-101084-68

UV filter combination does not comply with applicable EU Cosmetic Regulation

K-ELEMENT



An extensive, uniform and unique formation of self-organizing molecules that guarantee maximum stability.

Procedure

1. Heat part A to 90°C while stirring. Add part B.
2. Heat part C to 85°C and add to part AB while stirring and homogenizing the emulsion with high shear.
3. Cool down the emulsion <30°C and add part D, E and F. Homogenize again.
4. Keep stirring till RT.

Technical Data

pH: 6.5–6.7
Viscosity (Brookfield RV4/10rpm): 4000 mPa.s
SPF in vivo: 37.1
In vitro UVAPF (Colipa 2011): > 10.0
(According to FDA SPF Test Method) UVAPF/SPF (30 labeled); > 0.33: > 0.33
Critical Wavelength: < 370 nm
(Measurement done with Labsphere equipment)



Products are for illustration only, not for sale.
dsm-firmenich is not responsible for final product claims.

dsm-firmenich 

Disclaimer

Copyright © DSM Nutritional Products Ltd 2025, 4002 Basel, Switzerland.
www.dsm-firmenich.com. All rights reserved.

dsm-firmenich has used diligent care to ensure that the information provided herein is accurate and up-to-date to the best of its knowledge. However, dsm-firmenich makes no representation or warranty, either expressly or implied, of the accuracy, reliability, completeness, or suitability thereof. The information provided herein contains scientific and product information for business-to-business use and does not constitute or provide scientific or medical advice, diagnosis or recommendation for treatment options. Country or region-specific information should be considered when labelling or advertising to final consumer. In no event shall dsm-firmenich be liable for any direct or indirect damages arising from or reliance upon, or use of, any information provided herein. The content of this document is subject to change without further notice. Please contact your local dsm-firmenich representative for the latest information. All trademarks listed in this document are either (registered) trademarks of, or trademarks licensed by, the dsm-firmenich group of companies, unless explicitly stated otherwise.

Disclaimer Formulation Guideline

The information provided herein is provided for information purposes only and has been prepared by dsm-firmenich in accordance with its own methodology. dsm-firmenich has used diligent care to ensure that it is accurate and up-to-date, however, dsm-firmenich makes no representation or warranty, either expressly or implied, of the accuracy, reliability, or completeness thereof. In no event shall dsm-firmenich be liable for any damages arising from or reliance upon, or use of, any information provided herein. Further, dsm-firmenich shall not bear any liability for the application and/or use of any processed material containing its product(s). The formulation of the finished product is the customer's sole responsibility. It is the customer's responsibility to determine the suitability of dsm-firmenich's products regarding user specific purposes, assess compatibility and stability of their finished product(s) and to ensure compliance of their finished product(s) with relevant laws and regulations. Any product, marketing or other claims made by customer are its sole responsibility. The content of this document is subject to change without further notice. Please contact your local dsm-firmenich representative for further details. © DSM Nutritional Products AG, 2025.

We bring progress to life