

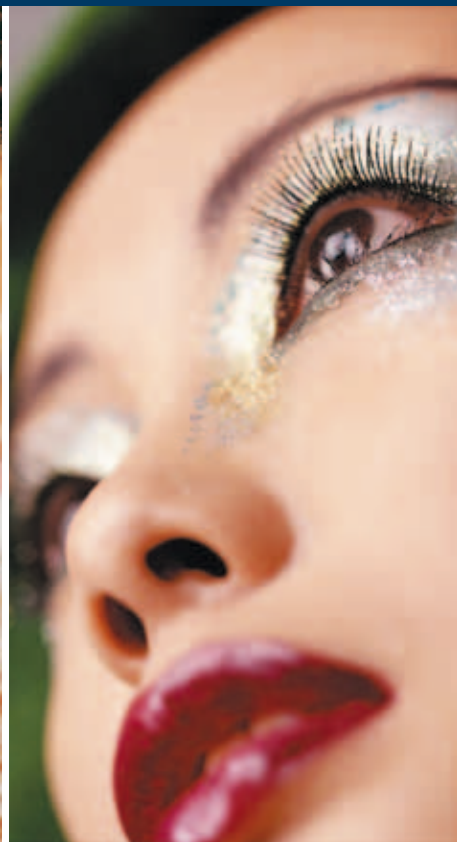
COSMETICS FORMULARY

02/2016

Sasol Performance Chemicals



SASOL



About us

Sasol's Performance Chemicals business unit markets a broad portfolio of organic and inorganic commodity and speciality chemicals. Our business employs about 1300 people in four key business divisions: Organics, Inorganics, Wax and PCASG (Phenolics, Carbon, Ammonia and Speciality Gases). Our offices in 18 countries serve customers around the world with a multi-faceted portfolio of state-of-the-art chemical products and solutions for a wide range of applications and industries.

Our key products include surfactants, surfactant intermediates, fatty alcohols, linear alkyl benzene (LAB), short-chain linear alpha olefins, ethylene, petrolatum, paraffin waxes, synthetic waxes, cresylic acids, high-quality carbon solutions as well as high-purity and ultra-high-purity alumina. Our speciality gases sub-division supplies its customers with high-quality ammonia, hydrogen and CO₂ as well as liquid nitrogen, liquid argon, krypton and xenon gases.

Our products are as individual as the industrial applications they serve, with tailor-made solutions creating real business value for customers. Ongoing research activities result in a continuous stream of innovative product concepts that help our customers position themselves successfully in future markets.

Our products are used in countless applications in our daily lives to add value, security and comfort. Typical examples include detergents, cleaning agents, personal care, construction, paints and coatings, leather and metal processing, hot-melt adhesives, bitumen modification and catalyst support for automotive catalysts and other diverse specialty applications including oil and gas recovery, aroma production, plastic stabilisation, and polymer production. Every day, our researchers explore ways to improve our products and develop innovations that improve the quality of people's lives.

Foreword

This collection of guideline formulation examples provides an overview of how the wide range of Sasol raw materials for cosmetics and personal care can be used to fulfil your performance and formulation requirements.

We hope to inspire new ideas by providing examples of formulation concepts and guideline formulations. You will find creams, lotions, sprays, foams and cleansers; also concepts for sunscreens (creams, lotions, foams and sprays), as well as high-foaming transparent cleansers with natural oils or active agents that are efficiently deposited on the skin.

We hope that we can offer a range of examples that will prove useful either for providing a starting point for further work or for inciting your imagination. For further questions and more examples or assistance please feel free to contact our global network of sales and technical staff.

Register of formulation categories

Categories		Page		
Toiletries 	Hair	Transparent shampoo with vegetable-derived conditioners	6	
		Transparent anti-dandruff shampoo with jojoba oil	7	
		Mild shampoo for kids	8	
		Shampoo with caring emollients	9	
		Hair conditioner without silicones	10	
		Hair conditioner with silicone oil	11	
		Transparent hair oil with caring emollients	12	
	Body	Transparent liquid hand foam	13	
		Mild and caring shower foam	14	
		Shower gel with scrub	15	
		Water free shower oil	16	
		Mild baby washing gel	17	
		Bath additive for kids	18	
		Transparent caring mild shower gel for sensitive skin	19	
		Caring facial cleansing foam	20	
		Anti-acne facial cleanser foam	21	
		Shaving gel	22	
	Bubble bath	23		
	Leave-on 	Face	Day cream with avocado oil (SPF 10)	24
			Night cream with shea butter	25
			Cream with anti-acne effect	26
			Hydro energy gel for men	27
			Aftershave balsam	28
Cleansing milk			29	
CC cream with SPF 10			30	
Cleansing and caring mask			31	
Body		Rich winter cream with high amount of natural oils	32	
		Body lotion with Pomegranate oil (summer time)	33	
		Basic milk with jojoba oil	34	
		Body care cream with calendula oil	35	
		Soft hand cream with natural oil	36	
		Repair lotion with urea	37	
		Caring anti-aging lotion	38	
		Anti-wrinkle cream with jojoba oil (SPF15)	39	
Vitalizing day care cream with sun protection (men)	40			

Categories

Page

Leave-on



Sun	Sunscreen lotion (SPF 50)	41
	Sunscreen lotion (SPF 25)	42
	Sunscreen cream with ZnO (SPF 30 – US)	43
	Sunscreen cream (SPF 50+)	44
	Sunscreen spray (SPF 30 – EU)	45
	Sunscreen spray (SPF 50 – EU)	46
	Sun protection foam (SPF 20)	47
	Transparent sunscreen pump spray without ethanol (SPF 50)	48
	Transparent sunscreen pump spray without ethanol (SPF 30)	49
	Transparent sunscreen spray (SPF 25 – EU)	50

Other categories



Aftersun milk	51
Foot balm with jojoba oil	52
Eye care lotion	53
Concentrate for wet wipes	54
Skin lightening cream	55
Self tanning lotion	56
Antiperspirant roll-on	57

Supplier list	58
INCI name list	59
At your service	60

Transparent shampoo with vegetable-derived conditioners

Formulation No.: 9399

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	12.0	Base surfactant / high foaming power
	MARLOWET CG	1	PEG-18 Castor Oil Dioleate	2.0	Emulsifier for oils
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	PARAFOL 12-97	1	Dodecane	0.7	Hair conditioning agent
	PARAFOL 22-95	1	Docosane	0.3	Hair conditioning wax
	Glycerine		Glycerin	0.5	Moisturizing agent
	Glucopon 600 CSUP	16	Lauryl Glucoside	0.5	Co-surfactant
B	Tego Betain F 50	3	Cocamidopropyl Betaine	9.0	Co-surfactant
	NaCl		Sodium Chloride	1.5	
	Demin. water		Aqua	25.0	
C	U-Care Polymer JR 400	75	Polyquaternium-10	0.3	Quaternary conditioning agent
	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	Preservative
E	Antil 141 liquid	3	Propylene Glycol (and) PEG-55 Propylene Glycol Oleate	q.s.	Thickening agent
	Perfume	27	Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) to ~40°C
2. Homogenize phase (A) and (B) separately
3. Add phase (B) to (A) and homogenize
4. Add phase (C) to (AB) and homogenize
5. When phase (ABC) is transparent add phase (D) and homogenize
6. Adjust the pH-value
7. Add phase (E) to (ABCD) and homogenize

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid-viscous, slightly yellow, transparent

Transparent anti-dandruff shampoo with jojoba oil

Formulation No.: 12318

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	15.0	Base surfactant / high foaming power
	MARLOWET CG	1	PEG-18 Castor Oil Dioleate	2.0	Emulsifier for oils
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	Octopirox	8	Piroctone Olamine	0.25	Antidandruff agent
	Glycerine		Glycerin	0.5	Moisturizing agent
	Glucopon 600 CSUP	16	Lauryl Glucoside	0.5	Co-surfactant
	COSMACOL ESI	18	Tridecyl Salicylate	0.5	Emollient
B	Tego Betain F 50	3	Cocamidopropyl Betaine	5.0	Co-surfactant
	NaCl		Sodium Chloride	1.5	
	Demin. water		Aqua	30.0	
C	U-Care Polymer JR 400	75	Polyquaternium-10	0.3	Quaternary conditioning agent
	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	Preservative
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
E	Antil 127	3	PEG-120 Methyl Glucose Dioleate	q.s.	Thickening agent

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) to ~40°C
2. Homogenize phase (A) and (B) separately
3. Add phase (B) to (A) and homogenize
4. Add phase (C) to (AB) and homogenize
5. When phase (ABC) is transparent add phase (D) and homogenize
6. Adjust the pH-value
7. Add phase (E) to (ABCD) and homogenize

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid-viscous, slightly yellow, transparent

Mild shampoo for kids

Formulation No.: 10704

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	12.0	Base surfactant / high foaming power
	Tego Betain F 50	3	Cocamidopropyl Betaine	4.7	Co-surfactant
	Demin. water		Aqua	add to 100	
B	U-Care Polymer JR 400	75	Polyquaternium-10	0.25	Quaternary conditioning agent
	Demin. water		Aqua	20.0	
C	COSMACOL ELI	18	C12-13 Alkyl Lactate	0.3	Moisturizing agent / thickening agent
	Panthenol (w = 0.7)	26	Panthenol	0.7	Active care agent
	Perfume "Apple"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Preservative			q.s.	
D	NaCl		Sodium Chloride	q.s.	Thickening agent

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A) and (B) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Adjust the pH-value
5. Add phase (D) to (ABC) and homogenize

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid-viscous, slightly yellow, transparent

Shampoo with caring emollients

Formulation No.: 12247

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C	1	Sodium Laureth Sulfate	11.0	Base surfactant / high foaming power
	Demin. water		Aqua	30.0	
B	COSMACOL N II-9	18	C12-13 Pareth-9	0.7	Solubilizing agent / emulsifier
	COSMACOL ETI	18	Di-C12-13 Alkyl Tartrate	0.2	Improves glossing effect / polar emollient
	COSMACOL ELI	18	C12-13 Alkyl Lactate	0.3	Moisturizing agent / thickening agent
	COSMACOL OE	1	Dicaprylyl Ether	0.3	Rheology modifier
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Preservative			q.s.	Preservative
	Tego Betain F 50	3	Cocamidopropyl Betaine	8.7	Co-surfactant / foam booster
C	U-Care Polymer JR 400	75	Polyquaternium-10	0.3	Quaternary conditioning agent
	Demin. water		Aqua	add to 100	
D	NaCl		Sodium Chloride	q.s.	Thickening agent

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A) and (C) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Adjust the pH-value
5. Add phase (D) to (ABC) and homogenize

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid-viscous, transparent

Hair conditioner without silicones

Formulation No.: 10705

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	GALENOL 1618 AE	1	Cetearyl Alcohol (and) Ceteareth-20	3.0	Nonionic self-emulsifying mixture for O/W-emulsions
	NAFOL 1618 H	1	Cetearyl Alcohol	1.0	Co-emulsifier / consistency regulator
	PARAFOL 12-97	1	Dodecane	0.75	Hair conditioning agent
	PARAFOL 22-95	1	Docosane	0.75	Hair conditioning wax
	Genamin BTFL	8	Behentrimonium Chloride	1.0	Quaternary conditioning agent
B	Demin. water		Aqua	add to 100	
	Genamin CTAC 50	8	Cetrimonium Chloride	2.0	Quaternary conditioning agent
C	Perfume		Parfum (EU) / Fragrance (US)	q.s.	
	Citric Acid		Citric Acid	q.s.	pH-adjustment
D	Preservative			q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 75°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Add phase (D) to (ABC) and homogenize

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 7,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Hair conditioner with silicone oil

Formulation No.: 10942

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	GALENOL 1618 AE	1	Cetearyl Alcohol (and) Ceteareth-20	2.5	Nonionic self-emulsifying mixture for O/W-emulsions
	NAFOL 1618 H	1	Cetearyl Alcohol	1.0	Co-emulsifier / consistency regulator
	COSMACOL ETI	18	Di-C12-13 Alkyl Tartrate	0.5	Hair conditioning agent
	VARA 2600	1	Petrolatum	0.5	Emollient
	ISOFOL 24	1	Decyltetradecanol	1.0	Hair conditioning agent
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	0.5	Natural Oil
	GE Bayer silicone oil 100.000 cst	55	Dimethicone	0.5	Hair conditioning agent
Genamin BTFL	8	Behentrimonium Chloride	2.5	Quaternary conditioning agent	
B	Demin. water		Aqua	add to 100	
	Amaze XT	67	Dehydroxyxanthan Gum	0.3	Fixative and thickener / suspending agent
C	Perfume		Parfum (EU) / Fragrance (US)	q.s.	
	Citric acid		Citric Acid	q.s.	pH-adjustment
D	Preservative			q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 75°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Add phase (D) to (ABC) and homogenize

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 5,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Transparent hair oil with caring emollients

Formulation No.: 11979

Phase	Trademark	*)	INCI name	Weight [%]	Function
	MARLOSOL ST 9150 P	1	PPG-15 Stearyl Ether	add to 100	Polar emollient / skin conditioner
	ISOFOL 24	1	Decyltetradecanol	25.0	Hair conditioning agent
	PARAFOL 12-97	1	Dodecane	3.0	Hair conditioning agent
	PARAFOL 22-95	1	Docosane	1.0	Hair conditioning wax
	COSMACOL EBI	18	C12-15 Alkyl Benzoate	10.0	Solubilizing agent
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	10.0	Hair conditioning agent
	COSMACOL ESI	18	Tridecyl Salicylate	10.0	Emollient
	COSMACOL ETI	18	Di-C12-13 Alkyl Tartrate	5.0	Hair conditioning agent
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	Sunflower oil	32	Helianthus Annuus (Sunflower) Seed Oil	1.0	Natural oil
	Argan oil	32	Argania Spinosa (Argan) Kernel Oil	1.0	Natural oil
	Burdock root hair oil	32	Arctium Lappa (Burdock) Root Oil	0.7	Natural oil
	Tocopheryl Acetate	9	Tocopheryl Acetate	0.5	Improves photo protection / active care agent
	Lavender oil		Lavandula Angustifolia (Lavender) Oil	0.1	Natural oil
	Tocopherol	9	Tocopherol	0.1	Antioxidant /stabiliser for oxygen sensitive ingredients

*) supplier list page 58

Preparation (at room temperature):

Add the components in the above given order while stirring continuously

Clear melting point: ~ 3°C

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid (oil-like), yellow, transparent

Transparent liquid hand foam

Formulation No.: 10699

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C	1	Sodium Laureth Sulfate	6.0	Base surfactant / high foaming power
	Demin. water		Aqua	30.0	
B	D-Panthenol 75 L	26	Panthenol	1.0	Active care agent
	Glycerine		Glycerin	1.0	Moisturizing agent
	COSMACOL ELI	18	C12-13 Alkyl Lactate	0.1	Thickening agent / moisturizing agent
	COSMACOL HE	1	PEG-7 Glyceryl Cocoate	0.1	Solubilising agent
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Preservative			q.s.	Preservative
	Lactic acid	9	Lactic Acid	q.s.	Moisturizing agent
	Tego Betain F 50	3	Cocamidopropyl Betaine	4.9	Co-surfactant
Demin. water			add to 100		

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A)
2. Add phase (B) to (A) and homogenize
3. Adjust the pH-value

Foam quality: fine and dense

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid, transparent

Mild and caring shower foam

Formulation No.: 11574

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	12.0	Base surfactant / high foaming power
	MARLOWET CG	1	PEG-18 Castor Oil Dioleate	1.0	Emulsifier for oils
	COSMACOL ELI	18	C12-13 Alkyl Lactate	0.3	Moisturizing agent
	Sunflower oil	32	Helianthus Annuus (Sunflower) Seed Oil	1.0	Natural oil
	Glycerine		Glycerin	0.5	Moisturizing agent
	Antil 200	3	PEG-200-Hydrogenated Glyceryl Palmate (and) PEG-7 Glyceryl Cocoate	0.2	Foam stabilising agent
B	Tego Betain F 50	3	Cocamidopropyl Betaine	5.0	Co-surfactant
	NaCl		Sodium Chloride	2.0	
	Demin. water		Aqua	25.0	
C	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	Preservative
	D-Panthenol 75 L	64	Panthenol	q.s.	Active care agent
	Lactic acid		Lactic Acid	q.s.	Moisturizing agent
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	add to 100	

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A) and (B) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value

Foam quality: fine and dense

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid, slightly yellow, transparent

Shower gel with scrub

Formulation No.: 11774

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C	1	Sodium Laureth Sulfate	9.0	Base surfactant / high foaming power
	Demin. water		Aqua	30.0	
B	D-Panthenol 75 L	64	Panthenol	1.0	Active care agent
	Glycerine		Glycerin	1.0	Moisturizing agent
	COSMACOL ELI	18	C12-13 Alkyl Lactate	0.3	Thickening agent / moisturizing agent
	COSMACOL OE	1	Dicaprylyl Ether	0.2	Rheology modifier, emollient
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Preservative			q.s.	Preservative
	Lactic acid	9	Lactic Acid	q.s.	Moisturizing agent
	Tego Betain F 50	3	Cocamidopropyl Betaine	7.3	Co-surfactant / Foam booster
	Demin. water		Aqua	add to 100	
C	Antil 200	3	PEG-200 Hydrogenated Glyceryl Palmate (and) PEG-7 Glyceryl Cocoate	1.0	Foam stabilising agent
	Carbopol Aqua SF1	30	Acrylates Copolymer	6.0	Thickening and stabilizing agent
		Demin. water	Aqua	25.0	
D	DECORNEL 400-850 µm	2	Synthetic Wax	0.4	Scrub

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A) and (C) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Adjust the pH-value
5. Add phase (D) to (ABC) and homogenize

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: viscous, transparent

Water free shower oil

Formulation No.: 8420

Phase	Trademark	*)	INCI name	Weight [%]	Function
	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	25.0	Base surfactant
	MARLOSOL PK 9040	1	Laureth-4	30.0	Nonionic surfactant, mild odour
	Soya oil	32	Glycine Soja (Soybean) Oil	33.0	Natural oil
	Castor oil	32	Castor oil	9.0	Natural oil
	Joboba oil	32	Simmondsia Chinensis Oil	1.0	Natural oil
	D-Panthenol 75 L	26	Panthenol	q.s.	Active care agent
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Tocopherol	9	Tocopherol	q.s.	Antioxidant /stabiliser for oxygen sensitive ingredients

*) supplier list page 58

Preparation (at room temperature):

Homogenise the components in the above given order while stirring continuously.

Clear melting point: ~ 5°C

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid (oil-like), yellow, transparent

Mild baby washing gel

Formulation No.: 12005

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	15.0	Base surfactant / high foaming power
	MARLOSOL PK 9040	1	Laureth-4	2.0	Nonionic surfactant, mild odour
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	0.2	Hair conditioning agent
	COSMACOL ELI	18	C12-13 Alkyl Lactate	0.2	Moisturizing agent / thickening agent
	Glycerine		Glycerin	0.5	Moisturizing agent
	Glucopon 600 CSUP	16	Lauryl Glucoside	0.5	Co-surfactant
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
B	Tego Betain F 50	3	Cocamidopropyl Betaine	5.0	Co-surfactant
	NaCl		Sodium Chloride	1.5	
	Demin. water		Aqua	25.0	
C	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	Preservative
	Antil 127	3	PEG-120 Methyl Glucose Dioleate	1.8	Thickening agent
	Perfume "Raspberry"	27	Parfum (EU) / Fragrance (US)	0.1	

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A) and (B) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Adjust the pH-value
5. Add phase (D) to (ABC) and homogenize

Viscosity (Haake, RheoStress 1, 10s⁻¹): ~ 6,500 mPas, 20°C

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid-viscous, slightly yellow, transparent

Bath additive for kids

Formulation No.: 12316

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C	1	Sodium Laureth Sulfate	17.1	Base surfactant / high foaming power
	COSMACOL HE	18	PEG-7 Glyceryl Cocoate	0.3	Solubilizing agent
	COSMACOL ETI	18	Di-C12-13 Alkyl Tartrate	0.3	Improves glossing effect / polar emollient
	COSMACOL ELI	3	C12-13 Alkyl Lactate	0.3	Thickening agent / moisturizing agent
	Tego Betain F 50		Cocamidopropyl Betaine	7.9	Co-surfactant
	NaCl		Sodium Chloride	1.3	Thickening agent
	Demin. water		Aqua	add to 100	
B	Preservative			q.s.	Preservative
	Perfume "Orange"	27	Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A)
2. Add phase (B) to (A) and homogenize
3. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 10s⁻¹): ~ 6,000 mPas, 20°C

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: viscous

Transparent caring mild shower gel for sensitive skin

Formulation No.: 11139

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	18.0	Base surfactant / high foaming power
	MARLOWET CG	1	PEG-18 Castor Oil Dioleate	4.0	Emulsifier for oils
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.5	Natural oil
	Sweet Almond oil	32	Prunus Amygdalus Dulcis (Sweet Almond)	1.5	Natural oil
	Calendula oil	32	Calendula Officinalis Flower Extract	1.0	Natural oil
	Evening Primrose oil	32	Oenothera Biennis (Evening Primrose) Oil	0.75	Natural oil
	Shea oil	32	Butyrospermum Parkii (Shea) Seed Oil	0.75	Natural oil
	MARLINAT 242/70 C	1	Sodium Laureth Sulfate	4.0	Base surfactant
	Perfume "Raspberry"	27	Parfum (EU)/ Fragrance (US)	q.s.	
	Glycerine		Glycerin	1.0	Moisturizing agent
B	Cocamidopropyl Betaine (38% active)	3	Cocamidopropyl Betaine	4.0	Co-surfactant
	NaCl		Sodium Chloride	3.0	
	Demin. water		Aqua	25.0	
C	Demin. water		Aqua	add to 100	
D	Ronacare Bisabolol	9	Bisabolol	0.1	Active care agent
	D-Panthenol 75 L	26	Panthenol	1.0	Active care agent
	Preservative			q.s.	Preservative
	Antil 127	3	PEG-120 Methyl Glucose Dioleate	q.s.	Thickening and stabilizing agent
	Lactic acid	9	Lactic Acid	q.s.	Moisturizing agent

*) supplier list page 58

Preparation:

1. Homogenize phase (A) and (B) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid-viscous, slight yellow, transparent

Caring facial cleansing foam

Formulation No.: 10411

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	10.0	Base surfactant / high foaming power
	MARLOWET CG	1	PEG-18 Castor Oil Dioleate	1.5	Emulsifier for oils
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	0.8	Natural oil
	COSMACOL OE	1	Dicaprylyl Ether	0.5	Very light, good spreading emollient
	Glucopon 600 CSUP	16	Lauryl Glucoside	0.5	Co-surfactant
	Glycerine		Glycerin	0.5	Moisturizing agent
	COSMACOL ELI	18	C12-13 Alkyl Lactate	0.3	Moisturizing agent
	Antil 141 liquid	3	Propylene Glycol (and) PEG-55 Propylene Glycol Oleate	0.3	Thickening agent
B	Tego Betain F 50	3	Cocamidopropyl Betaine	5.0	Co-surfactant
	NaCl		Sodium Chloride	1.0	
	Demin. water		Aqua	25.0	
C	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	Preservative
	D-Panthenol 75 L	26	Panthenol	q.s.	Active care agent
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Lactic acid	9	Lactic Acid	q.s.	Moisturizing agent

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A) and (B) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value

Foam quality: fine and dense

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid, slightly yellow, transparent

Anti-acne facial cleanser foam

Formulation No.: 10711

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	COSMACOL OE	1	Dicaprylyl Ether	4.0	Good spreading agent
	Salicylic acid		Salicylic Acid	1.0	Anti-acne agent
	Ethanol		Ethanol	1.0	Solubilizing agent
B	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	10.0	Base surfactant / high foaming power
	MARLOWET CG	1	PEG-18 Castor Oil Dioleate	1.5	Emulsifier for oils
	Jjoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	0.3	Moisturizing / sebum regulating agent
	COSMACOL ELI	18	C12-13 Alkyl Lactate	0.3	Moisturizing / sebum regulating agent with a very light feeling
	COSMACOL ETI	18	Di-C12-13 Alkyl Tartrate	0.3	Polar emollient with a silky skin feeling
	COSMACOL ESI	18	Tridecyl Salicylate	0.3	Emollient
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
C	NaCl		Sodium Chloride	3.0	
	Tego Betain F50	3	Cocamidopropyl Betaine	5.0	Co-surfactant
	Demin. water		Aqua	25.0	
D	Demin. water		Aqua	add to 100	
E	Preservative			q.s.	Preservative
	D-Panthenol 75 L	26	Panthenol	q.s.	Active care agent
	Antil 200	3	PEG-200 Hydrogenated Glyceryl Palmate (and) PEG-7 Glyceryl Cocoate	q.s.	Foam stabilizing agent

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A), (B) and (C) separately
2. Add phase (A) to (B) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value
6. Add phase (E) to (ABCD) and homogenize

Foam quality: fine and dense

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid, slightly yellow, transparent

Shaving gel

Formulation No.: 11865

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	4.5	Base surfactant / high foaming power
	MARLOSOL PK 9040	1	Laureth-4	1.0	Nonionic surfactant, mild odour
	Coconut fatty acid		Coconut Acid	15.0	Lubricant
	MERKUR WOP 40 PB	2	Paraffinum Liquidum	1.0	Skin smoothener
	Glycerine		Glycerin	0.5	Moisturizing agent
B	Triethanolamine		Triethanolamine	15.0	Neutralizing agent
	NaCl		Sodium Chloride	1.0	
	Tego Betain F 50	3	Cocamidopropyl Betaine	3.0	Co-surfactant
	Demin. water		Aqua	25.0	
C	Jaguar C 162	89	Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	1.0	Soft skin feel / conditioning agent
	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	Preservative
	Perfume "Action"	78	Parfum (EU) / Fragrance (US)	q.s.	
	D-Panthenol 75 L	64	Panthenol	0.5	Active care agent

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A), (B) and (C) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value up to >8 by addition of Triethanolamine

Viscosity (Haake, RheoStress 1, 10s⁻¹): ~ 3,300 mPas, 20°C

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: viscous, slightly yellow, transparent

Bubble bath

Formulation No.: 10707

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C	1	Sodium Laureth Sulfate	14.0	Base surfactant / high foaming power
	Demin. water		Aqua	add to 100	
B	COSMACOL ELI	18	C12-13 Alkyl Lactate	0.3	Thickening agent / moisturizing agent
	COSMACOL HE	18	PEG-7 Glyceryl Cocoate	0.3	Solubilizing agent
	COSMACOL OE	1	Dicaprylyl Ether	0.3	Rheology modifier, emollient
	Glycerine		Glycerin	0.5	Moisturizing agent
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Preservative	20		q.s.	Preservative
C	Tego Betain F 50	3	Cocamidopropyl Betaine	7.0	Co-surfactant
D	COSMACOL P50	18	Sodium Laureth Sulfate (and) Glycol Distearate (and) Lauramide MEA	2.0	Pearlizing agent
E	NaCl		Sodium Chloride	q.s.	Thickening agent

*) supplier list page 58

Preparation (at room temperature):

1. Homogenize phase (A)
2. Add phase (B) to (A) and homogenize
3. Add phase (C) and (D) to (AB) and homogenize
4. Adjust the pH-value
5. Add phase (E) to (ABCD) and homogenize

Viscosity (Haake, RheoStress 1, 10s⁻¹) ~ 1,000 mPas, 20°C

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid, pearlescent

Day cream with avocado oil (SPF 10)

Formulation No.: 10890

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	Aristoflex AVC	8	Ammonium Acryloyl-dimethyltaurate/ VP Copolymer	0.8	Gelling agent and thickener
B	CERALUTION H	1	See page 59	3.0	Emulsifier/ reduces crow feet wrinkles/ moisturizer
	NAFOL 1618 H	1	Cetearyl Alcohol	1.5	Co-emulsifier / consistency regulator
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	6.0	Wrinkle reduction / moisturizer/ sebum control / velvety skin feel
	COSMACOL ELI	18	C12-13 Alkyl Lactate	1.5	Keratolytic / moisturizing / sebum regulating agent
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	2.0	Mild keratolytic/ skin smoothing
	COSMACOL OE	18	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	COSMACOL EOI	18	C12-13 Alkyl Ethylhexanoate	1.0	Light emollient/greasiness reducer
	PARAFOL 12-97	1	Dodecane	2.0	Fast spreading emollient
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.0	Protective oil component with high affinity to skin
	Softisan 100	31	Hydrogenated Coco-Glycerides	2.0	Emollient, melting point at body temperature
	Avocado oil	32	Avocado oil	1.0	Natural oil
	Eusolex 9020	9	Butyl Methoxydibenzoylmethane	1.5	UVA-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Tocopheryl Acetate	59	Tocopheryl Acetate	q.s.	Improves photo protection / active care agent
Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	0.5	Film former / water resistance improver	
C	Demin. water		Aqua	10.0	
	D-Panthenol (w=0.25)	64	Panthenol	1.0	Active care agent
D	Preservative	20		q.s.	
	Perfume	21	Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB), homogenize
4. Add phase (D) to (ABC) and homogenize
5. Adjust the pH-value

Information:

Calculated SPF: 14.3
 UVA-PF/SPF [>0.33]: 0.44
 Critical Wavelength: 373 nm

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 88,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Night cream with shea butter

Formulation No.: 10934

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Glycerine		Glycerin	5.0	Moisturizing agent	
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid	
	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate / VP Copolymer	0.8	Gelling agent and thickener	
B	CERALUTION H	1	See page 59	3.0	Emulsifier/ reduces crow feet wrinkles/ moisturizer	
	NAFOL 1618 H	1	Cetearyl Alcohol	2.0	Co-emulsifier / consistency regulator	
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	6.0	Wrinkle reduction / moisturizer/ sebum control / velvety skin feel	
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light emollient / good spread ability	
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	3.0	Mild keratolytic / skin smoothing	
	COSMACOL ETI	18	Di-C12-13 Alkyl Tartrate	4.0	Polar emollient giving a silky skin feeling	
	PARAFOL 14-97	1	Tetradecane	3.0	Good spreading emollient	
	VARA 2600	2	Petrolatum	1.0	Emollient	
	Shea Butter		Buryspernum Parkii (Shea butter)	2.0	Natural butter	
	Bisabolol	9	Bisabolol	0.3	Active care agent	
	COSMACOL ETLP	18	Dimyristyl Tartrate	2.5	Polar waxy emollient / viscosity regulator	
	C	Demin. water		Aqua	10.0	
		D-Panthenol 75 L	64	Panthenol	1.5	Active care agent
D	Preservative			q.s.		
	Perfume		Parfum (EU) / Fragrance (US)	q.s.		

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Add phase (D) to (ABC) and homogenize
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 93,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Cream with anti-acne effect

Formulation No.: 10708

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	Allantoin	59	Allantoin	0.3	Active care agent
	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate / VP Copolymer	0.6	Gelling agent and thickener
B	CERALUTION H	1	See page 59	3.0	Emulsifier/ reduce crow feet wrinkles/ moisturizer
	NAFOL 1618 H	1	Cetearyl Alcohol	1.5	Co-emulsifier / consistency regulator
	COSMACOL ELI	18	C12-13 Alkyl Lactate	2.0	Keratolytic / moisturizing / sebum regulating agent with a very light feeling
	COSMACOL ESI	18	Tridecyl Salicylate	3.0	Emollient
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	1.0	Mild keratolytic / skin smoothing
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	Calendula oil	32	Calendula Officinalis Flower Oil	1.0	Natural oil, active care agent
	Dry Flo AF	59	Corn Starch Modified	0.5	Natural polymer / mitigates oily skin feel
	Ronacare Bisabolol	9	Bisabolol	0.2	Active care agent
	C	Tocopherol	9	Tocopherol	0.3
Demin. water			Aqua	10.0	
D	D-Panthenol 75 L	64	Panthenol	1.0	Active care agent
	Preservative			q.s.	
E	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB), homogenize
4. Add phase (D) and (E) to (ABC) and homogenize
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 53,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous

Hydro energy gel for men

Formulation No.: 10709

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate / VP Copolymer	0.5	Gelling agent and thickener
	Glycerine		Glycerin	5.5	Moisturizing agent
	Demin. water		Aqua	28.7	
	Disodium EDTA		Disodium EDTA	0.1	Chelating agent
B	COSMACOL ELI	18	C12-13 Alkyl Lactate	2.0	Moisturizing agent/sebum regulating
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	PARAFOL 12-97	1	Dodecane	1.0	Fast spreading emollient
	Shea butter	32	Butyrospermum Parkii (Shea) Butter	1.0	Natural butter
C	Menthol		Menthol	0.15	Cooling agent
	Ethanol (96%)		Alcohol denat.	20.0	Cooling agent
D	Carbopol Ultrez 20 Polymer	30	Acrylates / C10-30 Alkyl Acrylate Crosspolymer	q.s.	Thickening and stabilizing agent
	Demin. water		Aqua	add to 100	
E	Preservative	20		q.s.	
	Perfume	21	Parfum (EU) / Fragrance (US)	q.s.	
F	Sodium Hydroxide 10% in water		Sodium Hydroxide	q.s.	pH adjustment

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Add phase (D) and (E) and homogenize
5. Adjust the pH-value by adding phase (F)

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 78,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous

Aftershave balsam

Formulation No.: 9113

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid
B	Allantoin	59	Allantoin	0.2	Active care agent
	CERALUTION H	1	See page 59	2.5	Emulsifier, reduces crow feet wrinkles / moisturizer
	NAFOL 1618 H	1	Cetearyl Alcohol	1.0	Co-emulsifier / consistency regulator
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	1.5	Mild keratolytic / skin smoothing
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	4.0	Wrinkle reduction / moisturizer / sebum control
	COSMACOL ELI	18	C12-13 Alkyl Lactate	1.0	Moisturizing agent / sebum regulating
	PARAFOL 12-97	1	Dodecane	1.0	Fast spreading emollient
	Softisan 100	31	Hydrogenated Coco-Glycerides	1.5	Emollient / melting point at body temperature
	Bisabolol	9	Bisabolol	0.2	Active care agent
	C	Tocopherol	9	Tocopherol	0.5
D	Demin. water		Aqua	10.0	
	D-Panthenol 75 L	64	Panthenol	1.5	Active care agent
	Demin. Water with 50% Sodiumlactate	9	Sodium Lactate	2.0	Moisturizing agent / buffer agent
	Lactic acid	9	Lactic Acid	0.2	Moisturizing agent / buffer agent
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Add phase (D) and (E) to (ABC) and homogenize
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 13,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous, milky

Cleansing milk

Formulation No.: 11914

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	D-Panthenol 75 L	64	Panthenol	1.0	Active care agent
	Allantoin	59	Allantoin	0.3	Active care agent
B	CERALUTION H	1	See page 59	1.5	Emulsifier, reduces crow feet wrinkles / moisturizer
	NAFOL 1618 H	1	Cetearyl Alcohol	1.0	Co-emulsifier / consistency regulator
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	3.0	Moisturizer / sebum control / velvety skin feel
	ISOFOL 20	1	Octyldodecanol	5.0	Medium spreading oil
	PARAFOL 12-97	1	Dodecane	3.5	Good spreading emollient
	MERKUR WOP 40 PB	2	Paraffinium Liquidium	5.0	Emollient
	Softisan 100	31	Hydrogenated Coco-Glycerides	1.0	Emollient, melting point at body temperature
C	Carbopol Ultrez 21 (w = 0.03)	30	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	5.0	Thickening and stabilizing agent
	NaOH (w = 0.10)		Sodium Hydroxid	q.s.	Neutralizing agent
D	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Add phase (D) and (E) to (ABC) and homogenize
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 8,700 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous, milky

CC cream with SPF 10

Formulation No.: 10880

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Glycerin		Glycerin	3.0	Moisturizing agent	
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid	
	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate/VP Copolymer	0.1	Gelling agent and thickener	
	Panthenol (w = 0.75)	64	Panthenol	1.0	Active care agent	
B	CERALUTION H	1	See page 59	3.5	Emulsifier / reduces crow feet wrinkles / moisturizer	
	NAFOL 1618 H	1	Cetearyl Alcohol	1.0	Co-emulsifier / consistency regulator	
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	2.5	Moisturizer / sebum regulator	
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	0.5	Mild keratolytic / skin smoothing emollient	
	Softisan 100	31	Hydrogenated Coco-Glycerides	1.5	Emollient / melting at body temperature	
	Eusolex 9020	9	Butyl Methoxydibenzoylmethane	2.0	UVA-filter	
	Eusolex HMS	9	Homosalate	5.0	UVB-filter	
	Eusolex OCR	9	Octocrylene	5.0	UVB-filter	
	Softisan 649	31	Bis-Giglyceryl Polyacyladipate-2	2.0	Protective oil component with high affinity to skin	
	PARAFOL 14-97	1	Tetradecane	3.0	Good spreading emollient	
	Antaron V 220	60	VP/Eicosene Copolymer	1.5	Film former / water resistance improver	
	Tocopheryl Acetate	9	Tocopheryl Acetate	0.5	Improves photo protection / active care agent	
	C	Soft Tex Yellow C33-7720/ Brown C33-7715	58	C.I. 77492; C.I. 77491; C.I. 77492; C.I. 77499	0.25/0.75	Color agent
		SunPURO Titanium Dioxide	58	C.I. 77891	2.5	Color agent
Rona Flair Balance Red/ Gold/Blue		9	MICA (and) Titanium Dioxide (and) Tin Oxide	1.0/0.25/ 0.1	Color agent	
Titan (IV) oxide		9	Titanium Dioxide	2.5	Color agent	
COSMACOL ETI		18	Di-C12-13 Alkyl Tartrate	4.0	Pigment wetting agent with good skin feel	
COSMACOL EBI		18	C12-15 Alkyl Benzoate	6.0	Organic UF-filter solubilizer	
D	Preservative			q.s.		

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Homogenize phase (C) and add (C) to (B), homogenize
3. Add phase (BC) to phase (A) and homogenize
4. Cool to 40°C and add phase (D) to (ABC) and homogenize, adjust the pH-value

Information:

Calculated SPF: 11.8
 UVA-PF/SPF [>0.33]: 0.61
 Critical Wavelength: 376 nm

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 49,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Cleansing and caring mask

Formulation No.: 11917

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	8.0	Moisturising agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
B	Allantoin	59	Allantoin	0.2	Active care agent
	CERALUTION H	1	See page 59	4.0	Emulsifier / reduces crow feet wrinkles / moisturizer
	NAFOL 1618 H	1	Cetearyl Alcohol	2.0	Co-emulsifier / consistency regulator
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	COSMACOL ESI	18	Tridecyl Salicylate	3.0	Emollient
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	2.0	Mild keratolytic / skin smoothing
	COSMACOL ELI	18	C12-13 Alkyl Lactate	2.0	Moisturizing agent / sebum regulating
	COSMACOL ECI	18	Tri-C12-13 Alkyl Citrate	3.0	Good spreading emollient / sunscreen carrier
	ISOFOL 20	1	Octyldodecanol	6.0	Medium spreading emollient
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	Mango butter	32	Mangifera Indica (Mango) Seed Butter	2.0	Natural butter
	Tocopheryl Acetate	9	Tocopheryl Acetate	q.s.	Improves photo protection / active care agent
	C	Demin. water		Aqua	10.0
Panthenol		64	Panthenol	0.5	Active care agent
D	Demin. water		Aqua	25.0	
	Carbopol Ultrez 20 Polymer	30	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.3	Thickening and stabilizing agent
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	
	NaOH (w=0.10)		Sodium Hydroxide		

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Add phase (D) to (ABC) and homogenize
5. Cool to 35°C and add phase (E) to (ABCD) and homogenize
6. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 62,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous

Rich winter cream with high amount of natural oils

Formulation No.: 9123

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	7.5	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	D-Panthenol 75 L	64	Panthenol	5.0	Active care agent
	Ronacare Bisabolol	9	Bisabolol	0.2	Active care agent
B	CERALUTION H	1	See page 59	3.0	Emulsifier / reduces crow feet wrinkles / moisturizer
	NACOL 18-98	1	Stearyl Alcohol	2.5	Co-emulsifier/ consistency regulator
	COSMACOL ETI	18	Di-C12-13 Alkyl Tartrate	2.0	Polar emollient giving a silky skin feeling
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	2.0	Mild keratolytic / skin smoothing
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.0	Protective oil component with high affinity to skin
	Sweet Almond oil	32	Sweet Almond Oil	5.0	Natural oil
	Avocado oil	32	Persea Gratissima (Avocado) Oil	5.0	Natural oil
	Calendula oil	32	Calendula Officinalis Flower Extract	2.0	Natural oil
	Shea oil	32	Butyrospermum Parkii (Shea) Seed Oil	4.0	Natural oil
	Evening primrose oil	32	Oenothera Biennis Oil	8.0	Natural oil
	Beeswax	32	Beeswax	1.0	Consistency regulator
C	Ethanol		Alcohol	10.0	Preservative / cooling agent
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 43,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Body lotion with Pomegranate oil (summer time)

Formulation No.: 12126

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	4.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
B	CERALUTION H	1	See page 59	4.0	Emulsifier / reduces crow feet wrinkles / moisturizer
	NAFOL 1618 H	1	Cetearyl Alcohol	2.0	Co-emulsifier / consistency regulator
	COSMACOL ELI	18	C12-13 Alkyl Lactate	1.0	Moisturizing agent / sebum regulating
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	3.0	Wrinkle reduction / moisturizer / sebum control / velvety skin feel
	COSMACOL OE	1	Dicaprylyl Ether	6.0	Very light emollient / good spreadibility
	COSMACOL ETLP	18	Dimyristyl Tartrate	1.0	Polar waxy emollient / viscosity regulator
	Pomegranate oil	32	Punica Granatum Seed Oil	2.0	Natural oil
	Uvinul A Plus B	16	Ethylhexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	7.8	UVA/UVB-filter
	Antaron V-220	60	VP/Eicosene Copolymer	0.5	Film former / water resistance improver
C	Tocopherol		Tocopherol	q.s.	Antioxidant / stabiliser for oxygen sensitive ingredients
	Perfume "Mira Bai"		Parfum (EU) / Fragrance (US)	q.s.	
	Preservative			q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 26,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous- creamy

Basic milk with jojoba oil

Formulation No.: 10012

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION CC	1	See page 59	4.0	Self-emulsifying concentrate / cold-processing possible
B	COSMACOL ELI	18	C12-13 Alkyl Lactate	1.5	Moisturizing agent / sebum regulating
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	1.0	Moisturizing agent / sebum regulator
	Jojoba oil	1	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	MERKUR WOP 40 PB	2	Paraffinium Liquidium	6.5	Emollient
C	Demin. water		Aqua	add to 100	
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	Glycerine		Glycerin	2.0	Moisturizing agent
D	Demin. water with 3% Carbopol Ultrez 21	30	Acrylates / C10-30 Alkyl Acrylate Crosspolymer	10.0	Thickening and stabilizing agent
E	Demin. water with 10% Sodium Hydroxide		Sodium Hydroxide	1.0	pH-adjustment (~ 6-7)
F	Preservative	20		q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation (at room temperature):

1. Add phase (B) slowly to (A) and homogenize
2. Add phase (C) to (AB) and homogenize
3. Add phase (D) to (ABC) and neutralise with (E)
4. Add phase (F) and homogenize

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 30,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous

Body care cream with calendula oil

Formulation No.: 11513

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid
B	Allantoin	59	Allantoin	0.3	Active care agent
	CERALUTION H	1	See page 59	5.0	Emulsifier / reduces crow feet wrinkles / moisturizer
	NAFOL 1618 H	1	Cetearyl Alcohol	3.0	Co-emulsifier / consistency regulator
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	6.0	Wrinkle reduction / moisturizer / sebum control / velvety skin feel
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	1.5	Mild keratolytic / skin smoothing
	COSMACOL ETLP	18	Dimyristyl Tartrate	3.0	Polar waxy emollient / viscosity regulator
	PARAFOL 12-97	1	Dodecane	1.5	Fast spreading emollient
	MERKUR 500 USP	2	Petrolatum	1.0	Emollient
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	0.5	Natural oil
	Calendula oil	32	Calendula Officinalis Flower Extract	3.0	Natural oil
	Ronacare Bisabolol	9	Bisabolol	q.s.	Active care agent
	C	Demin. water		Aqua	10.0
D-Panthenol 75 L		64	Panthenol	1.5	Active care agent
Hydrolite-5			Pentylene Glycol	4.0	Fast spreading agent

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB), homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 39,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous

Soft hand cream with natural oil

Formulation No.: 11821

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	6.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	Rapithix A 100	87	Sodium Polyacrylate	0.2	Thickening and stabilizing agent
B	CERALUTION H	1	See page 59	4.0	Emulsifier / reduces crow feet wrinkles / moisturiser
	NAFOL 1618 H	1	Cetearyl Alcohol	2.0	Co-emulsifier / consistency regulator
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction / moisturizing agent/velvety skin feel
	COSMACOL OE	1	Dicaprylyl Ether	2.0	Very light, good spreading emollient
	COSMACOL ETLP	18	Dimyristyl Tartrate	2.0	Polar waxy emollient / viscosity regulator
	Almond oil	32	Prunus Amygdalus Dulcis (Sweet Almond) Oil	8.0	Natural oil
	Sunflower oil	32	Helianthus Annuus (Sunflower) Seed Oil	4.0	Natural oil
	Shea butter	32	Butyrospermum Parkii (Shea) Butter	1.0	Natural butter
C	Tocopherol	9	Tocopherol	q.s.	Antioxidant / stabiliser for oxygen sensitive ingredients
D	Perfume "Kokos"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Preservative			q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) and (D) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 30,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous

Repair lotion with urea

Formulation No.: 11015

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	4.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid
B	CERALUTION H	1	See page 59	4.0	Emulsifier / reduces crow feet wrinkles / moisturiser
	NAFOL 1822	1	Behenyl Alcohol	1.5	Co-emulsifier / consistency regulator
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	3.0	Wrinkle reduction / moisturizing agent/velvety skin feel
	COSMACOL ELI	18	C12-13 Alkyl Lactate	2.0	Moisturizing emollient / sebum regulating
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	COSMACOL SE	1	Distearyl Ether	1.0	Texture improving agent
	VARA 2600	2	Petrolatum	2.0	Emollient
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	1.5	Mild keratolytic / skin smoothing
	PARAFOL 14-97	1	Tetradecane	1.0	Good spreading agent
	Shea butter	32	Butyrospermum Parkii (Shea Butter)	0.5	Natural butter
	Ronacare Bisabolol	9	Bisabolol	q.s.	Active care agent
	Tocopheryl Acetate	9	Tocopheryl Acetate	q.s.	Improves photo protection / active care agent
C	Demin. water		Aqua	15.0	
	Urea	9	Urea	10.0	Moisturizing agent
	D-Panthenol 75 L		Panthenol	1.5	Active care agent
	Demin. Water with 50% Sodiumlactate	9	Sodium Lactate	4.0	Moisturizing agent / buffer agent
	Lactic acid	9	Lactic Acid	1.0	Moisturizing agent / buffer agent
D	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) and (D) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 20,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous

Caring anti-aging lotion

Formulation No.: 12136

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	6.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
B	CERALUTION H	1	See page 59	3.0	Emulsifier, reduces crow feet wrinkles, moisturizing agent
	NAFOL 1822	1	Behenyl Alcohol	1.5	Consistency regulator / increases viscosity
	COSMACOL OE	1	Dicaprylyl Ether	5.0	Very light, good spreading emollient
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	2.5	Wrinkle reduction / moisturizing agent / velvety skin feel
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	1.5	Mild keratolytic/skin smoothing
	COSMACOL ELI	18	C12-13 Alkyl Lactate	1.5	Moisturizing agent / sebum regulating
	PARAFOL 12-97	1	Dodecane	4.0	Very light spreading emollient / Cyclomethicone replacer
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	2.5	UVB-filter
	Eusolex 9020	9	Butyl Methoxydibenzoylmethane	1.0	UVA-filter
	Beeswax	32	Cera Flava	1.0	Natural wax / consistency regulator
	Antaron V220	60	VP/Eicosene Copolymer	0.5	Film former / water resistance improver
	Tocopheryl Acetate	9	Tocopheryl Acetate	0.3	Improves photo protection / active care agent
	C	Tocopherol	9	Tocopherol	0.1
D	Panthenol (w=0.75)	64	Panthenol	1.0	Active care agent
	Demin. water		Aqua	10.0	
E	Preservative			q.s.	Preservative

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) o (AB) and homogenize
4. Add phase (D) and (E) and homogenize
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 16,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous

Anti-wrinkle cream with jojoba oil (SPF 15)

Formulation No.: 10827

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate/ VP Copolymer	0.5	Gelling agent and thickener
	Disodium EDTA		Disodium EDTA	0.1	Chelating agent
B	CERALUTION H	1	See page 59	4.0	Active emulsifier / reducing crow feet wrinkles/ moisturizer
	NAFOL 1618 H	1	Cetearyl Alcohol	1.5	Co-emulsifier / consistency regulator
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	6.0	Wrinkle reduction / sebum control / velvety skin feel
	COSMACOL ELI	18	C12-13 Alkyl Lactate	1.0	Keratolytik / moisturizing / sebum regulating
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	1.0	Mild keratolytic / skin smoothing
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.0	Oil component with affinity to skin
	COSMACOL OE	1	Dicaprylyl Ether	4.0	Very light, good spreading emollient
	COSMACOL ETLP	18	Dimyristyl Tartrate	2.0	Polar waxy emollient / viscosity regulator
	PARAFOL 14-97	1	Tetradecane	3.0	Good spreading emollient
	Eusolex 9020	9	Butyl Methoxydibenzoylmethane	3.0	UVA-filter
	Eusolex HMS	9	Homosalate	7.0	UVB-filter
	Eusolex OCR	9	Octocrylene	7.0	UVB-filter
	Shea butter		Buryruspermum Parkii (Shea Butter)	0.5	Natural butter
	Tocopheryl Acetate	59	Tocopheryl Acetate	q.s.	Improves photo protection / active care agent
C	Demin. water		Aqua	10.0	
	D-Panthenol 75 L	64	Panthenol	1.0	Active care agent
	Preservative			q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB), homogenize
4. Adjust the pH-value

Information:

Calculated SPF: 16.6
 UVA-PF/SPF [>0.33]: 0.59
 Critical Wavelength: 376 nm

Viscosity (Haake, RheoStress 1, $1s^{-1}$): ~ 65,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Vitalizing day care cream with sun protection (men)

Formulation No.: 11902

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Glycerine		Glycerin	6.0	Moisturizing agent	
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid	
	Aristoflex AVC	8	Ammonium Acryloyl-dimethyltaurate/VP Copolymer	0.5	Gelling agent and thickener	
	Allantion		Allantoin	0.1	Active care agent	
	Caffeine		Caffeine	0.3	Improves microcirculation	
	B	CERALUTION H	1	See page 59	4.0	Emulsifier / reduces crow feet wrinkles / moisturizer
NAFOL 1618 H		1	Cetearyl Alcohol	1.5	Co-emulsifier / consistency regulator	
COSMACOL EMI		18	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction / moisturizer / sebum control / velvety skin feel	
COSMACOL OE		1	Dicaprylyl Ether	4.0	Very light, good spreading emollient	
Shea butter		32	Buryruspermum Parkii (Shea Butter)	2.0	Natural butter	
Eusolex OCR		9	Octocrylene	10.0	UVB-filter	
Eusolex 9020		9	Butyl Methoxy-dibenzoylmethane	5.0	UVA-filter	
Antaron V 220		60	VP/Eicosene Copolymer	1.5	Film former / water resistance improver	
C		Tocopherol	9	Tocopherol	0.1	Antioxidant / stabilizer for oxygen sensitive ingredients
		D	Perfume "2Men"	78	Parfum (EU) / Fragrance (US)	q.s.
	Preservative				q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB), homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 72,100 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Information:

Calculated SPF: 18.6

UVA-PF/SPF [>0.33]: 0.85

Critical Wavelength: 377 nm

Sunscreen lotion (SPF 50)

Formulation No.: 11963

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	UV-Titan M 212	9	Titanium Dioxide (and) Alumina (and) Glycerin	7.0	UVA/UVB-filter	
B	Glycerine		Glycerin	4.0	Moisturizing agent	
	Keltrol CG T	5	Xanthan Gum	0.4	Thickening agent / hydrocolloid	
C	CERALUTION H	1	See page 59	3.5	Emulsifier / reduces crow feet wrinkles / moisturizer	
	NAFOL 1618 H	1	Cetearyl Alcohol	0.5	Co-emulsifier / consistency regulator	
	COSMACOL ELI	18	C12-13 Alkyl Lactate	2.0	Keratolytik / moisturizing / sebum regulating	
	COSMACOL EBI	18	C12-15 Alkyl Benzoate	7.5	Org. UV-filter solubiliser / Solubilizing agent	
	Eusolex 9020	9	Butyl Methoxydibenzoyl- methane	5.0	UVA-filter	
	Eusolex 4360	9	Benzophenone-3	10.0	UVA -filter	
	Eusolex OCR	9	Octocrylene	8.0	UVB-filter	
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil	
	D	Tocopherol	9	Tocopherol	q.s.	Antioxidant / stabiliser for oxygen sensitive ingredients
		Allianz OPT	87	Acrylates/C12-22 Alkylme- thacrylate Copolymer	1.0	Thickening and stabilizing agent
E	Preservative			q.s.		
	Perfume		Parfum (EU) / Fragrance (US)	q.s.		

*) supplier list page 58

Preparation:

1. Homogenize phase (A) until the TiO₂ is well dispersed
2. Add phase (B) to (A)
3. Heat phase (AB) and (C) separately to 70°C
4. Cool to 35°C and add phase (D) and (E) and homogenize
5. Adjust the pH-value pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 35,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Information:

Calculated SPF: 52.1

UVA-PF/SPF [>0.33]: 0.35

UVA/UVB Ratio: 0.78

Critical Wavelength: 374 nm

Star Rating: ***

UVA-PF: 18.2

Sunscreen lotion (SPF 25)

Formulation No.: 11986

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Amaze XT	41	Dehydroxanthan gum	0.4	Fixative and thickener / suspending agent
B	CERALUTION H	1	See page 59	4.0	Emulsifier / reduces crow feet wrinkles / moisturizer
	COSMACOL EMI	18	Di C12-13 Alkyl Malate	2.5	Keratolytik / moisturising / sebum regulating
	COSMACOL EBI	18	C12-15 Alkyl Benzoate	7.5	Org. UV-filter solubiliser / Solubilizing agent
	Avocado oil	32	Persea Gratissima (Avocado) Oil	1.0	Natural oil
	Uvinul A Plus B	16	Ethylhexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	15.5	UVA/UVB-filter
	Antaron V220	60	VP/Eicosene Copolymer	1.0	Film former / water resistance improver
C	Tocopherol	9	Tocopherol	q.s.	Antioxidant / stabiliser for oxygen sensitive ingredients
	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (B) and (B1) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 37,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Information:

Calculated SPF: 26.5

UVA-PF/SPF [>0.33]: 0.36

UVA/UVB Ratio: 0.7

Critical Wavelength: 372 nm

Star Rating: ***

Sunscreen cream with ZnO (SPF 30 – US)

Formulation No.: 11956

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid
B	CERALUTION H	1	See page 59	3.5	Emulsifier / reduces crow feet wrinkles / moisturizer
	NAFOL 1618 H	1	Cetearyl Alcohol	1.0	Co-emulsifier / consistency regulator
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	2.0	Mild keratolytic / skin smoothing
	Eusolex 9020	9	Butyl Methoxy-dibenzoylmethane	3.0	UVA-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Eusolex 4360	9	Benzophenone-3	6.0	UVA-filter
	Arlacel P135	61	PEG-30 Dipolyhydroxystearate	0.2	Emulsifier
	Tocopheryl Acetate	59	Tocopheryl Acetate	0.5	Improves photo protection / active care agent
	Antaron V 220	60	VP/ Eicosene Copolymer	1.5	Film former / water resistance improver
	C	Z-Cote HP 1	16	Zinc Oxide (and) Dimethicone	10.0
COSMACOL EBI		18	C12-15 Alkyl Benzoate	8.0	Org. UV-filter solubiliser / Solubilizing agent
COSMACOL EMI		18	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction / moisturizing agent / velvety skin feel
D	Preservative			q.s.	
	Demin. water with 20% Citric Acid	9	Citric Acid	q.s.	pH adjustment 6.0
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Cool to 35°C and add phase (D) and homogenize
5. Adjust the pH-value

Viscosity (Haake,RheoStress 1, 1s⁻¹): ~ 31.200 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy, white

Information:

Calculated SPF: 32.8

UVA-PF/SPF [>0.33]: 0.45

UVA/UVB Ratio: 0.78

Critical Wavelength: 375 nm

Star Rating: ***

Sunscreen cream (SPF 50+)

Formulation No.: 12196

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	UV-Titan M 212	9	Titanium Dioxide (and) Alumina (and) Glycerin	5.5	UVA/UVB-filter
B	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	Aristoflex AVC	8	Ammonium Acryloyldime- thyltaurate / VP Copolymer	0.3	Gelling agent and thickener
C	CERALUTION H	1	See page 59	4.0	Emulsifier, reduces crow feet wrinkles, moisturizing agent
	NAFOL 1618 H	1	Cetearyl Alcohol	1.0	Co-emulsifier / consistency regulator
	COSMACOL ELI	18	C12-13 Alkyl Lactate	1.0	Wrinkle reduction / moisturi- zing agent/velvety skin feel
	COSMACOL EBI	18	C12-15 Alkyl Benzoate	4.0	Org. UV-filter solubiliser / Solubilizing agent
	COSMACOL OE	1	Dicaprylyl Ether	1.0	Very light, good spreading emollient
	VARA 2600	2	Petrolatum	1.0	Emollient
	Eusolex 9020	9	Butyl Methoxydibenzoyl- methane	5.0	UVA-filter
	Uvinul A Plus B	16	Ethylhexyl Methoxycinna- mate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	15.5	UVA/UVB-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Oxynex ST liquid	9	Diethylhexyl Syringyliden- emalonate (and) Caprylic/ Capric Triglyceride	0.5	Stabilizer for light sensitive ingredients
D	Tocopherol	9	Tocopherol	q.s.	Antioxidant / stabiliser for oxygen sensitive ingredients
E	Allianz OPT	87	Acrylates/C12-22 Alkylme- thacrylate Copolymer	1.0	Thickening and stabilizing agent
	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Homogenize phase (A) until the TiO₂ is well dispersed
2. Add phase (B) to (A)
3. Heat phase (AB) and (C) separately to 70°C
4. Cool to 35°C and add phase (D) and (E) and homogenize
5. Adjust the pH-value

Information:

Calculated SPF: 61.3
 UVA/UVB Ratio: 0.79 Star Rating: ***
 UVA-PF/SPF [>0.33]: 0.35
 Critical Wavelength: 375 nm
 UVA-PF: 21.7

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 78,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous-creamy

Sunscreen spray (SPF 30 – EU)

Formulation No.: 11888

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	10.0	
	Glycerine		Glycerin	5.0	Moisturizing agent / anti-freeze
	Keltrol CG T	5	Xanthan Gum	0.2	Thickening agent / hydrocolloid
B	CERALUTION ES	1	See page 59	3.0	Emulsifier and dispersant
	COSMACOL EBI	18	C12-15 Alkyl Benzoate	5.0	Org. UV-filter solubiliser / Solubilizing agent
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	2.5	Wrinkle reduction / moisturizing agent / velvety skin feel
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	1.5	Mild keratolytic / skin smoothing
	Almond oil	32	Prunus Amygdalus Dulcis (Sweet Almond) Oil	0.5	Natural oil
	Eusolex 9020	9	Butyl Methoxy-dibenzoylemethane	5.0	UVA-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Tinosorb S	16	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	2.0	UVA/UVB-filter
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	5.0	UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.5	Film former / water resistance improver
C	Tocopherol	9	Tocopherol	q.s.	Antioxidant / stabiliser for oxygen sensitive ingredients
D	Demin. water		Aqua	add to 100	
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	12.5	Thickening and stabilizing agent
	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) and (D) to (AB) and homogenize
4. Adjust the pH-value

Spray pattern: fine dispensed droplets

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid

Information:

Calculated SPF: 35.1

UVA-PF/SPF [>0.33]: 0.45

Star Rating: ***

Critical Wavelength: 374 nm

Sunscreen spray (SPF 50 – EU)

Formulation No.: 11890

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	12.5	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.2	Thickening agent / hydrocolloid
B	CERALUTION ES	1	See page 59	3.0	Emulsifier and dispersant
	COSMACOL EBI	18	C12-15 Alkyl Benzoate	5.0	Org. UV-filter solubiliser / Solubilizing agent
	COSMACOL ELI	18	C12-13 Alkyl Lactate	2.0	Keratolytik / moisturizing / sebum regulating
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	1.0	Mild keratolytic / skin smoothing
	Eusolex 9020	9	Butyl Methoxy-dibenzoylmethane	5.0	UVA-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Tinosorb S	16	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	5.5	UVA/UVB-filter
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	10.0	UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.0	Film former / water resistance improver
C	Tocopherol	9	Tocopherol	q.s.	Antioxidant /stabiliser for oxygen sensitive ingredients
D	Demin. water		Aqua	add to 100	
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	12.5	Thickening and stabilizing agent
E	Preservative/Perfume			q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C), (D) and (E) and homogenize
4. Adjust the pH-value

Spray pattern: fine dispensed droplets

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: milky

Information:

Calculated SPF: 55.7

Star Rating: ****

UVA-PF/SPF [>0.33]: 0.34

Critical Wavelength: 373 nm

Sun protection foam (SPF 20)

Formulation No.: 11998

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	7.5	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Glucopon 215 UP		Caprylyl Glucoside (and) Decyl Glycoside	1.5	
B	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	CERALUTION H	1	See page 59	1.0	Emulsifier, reduces crow feet wrinkles, moisturizing agent
	COSMACOL EBI	18	Propylene Glycol Dicaprylate/ Dicaprate	5.0	Org. UV-filter solubiliser / Solubilizing agent
	COSMACOL EMI	18	Di C12-13 Alkyl Malate	2.5	Keratolytik / moisturising / sebum regulating
	COSMACOL ECL	18	Tri C14-15 Alkyl Citrate	1.5	Mild keratolytic/skin smoothing
	Eusolex 9020	9	Butyl Methoxy- dibenzoylmethane	3.5	UVA-filter
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	6.0	UVB-filter
	Eusolex OCR	9	Octocrylene	6.0	UVB-filter
	Jjoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	Tocopheryl Acetate	9	Tocopheryl Acetate	1.0	Improves photo protection / active care agent
C	Demin. water		Aqua	add to 100	
D	Allianz OPT	84	Acrylates/C12-22 Alkylmethacrylate Copolymer	1.0	Water resistance improver
	Protelan LS 9011	39	Sodium Lauroyl Sarcosinate	3.0	Mild surfactant
E	Citric acid (w = 0.1)		Citric acid	q.s.	Buffer/pH-adjustment
	Preservative			q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A), (B) and (C) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Cool to 35°C and add phase (D) and (E) to (ABC) and homogenize
5. Adjust the pH-value

Foam quality: fine and dense

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid, milky

Information:

Calculated SPF: 23.2

UVA-PF/SPF [>0.33]: 0.34

Star Rating: ***

Critical Wavelength: 374 nm

Transparent sunscreen pump spray without ethanol (SPF 50)

Formulation No.: 11983

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Tinosorb S	16	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.0	UVA/UVB-filter
	Eusolex 9020	9	Butyl Methoxydibenzoyl-methane	3.0	UVA-filter
	Uvinul A Plus B	16	Ethylhexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	15.5	UVA/UVB-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
B	COSMACOL EBI	18	C12-15 Alkyl Benzoate	33.0	Org. UV-filter solubiliser / Solubilizing agent
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.0	Film former / water resistance improver
	COSMACOL ELI	18	C12-13 Alkyl Lactate	13.5	Moisturizing agent / sebum regulating
	ISOFOL 16	1	Hexyldecanol	20.0	Medium spreading emollient
	D-Panthenol (w=0.98)	64	Panthenol	q.s.	Active care agent
	Tocopherol	9	Tocopherol	q.s.	Antioxidant /stabiliser for oxygen sensitive ingredients

*) supplier list page 58

Preparation:

1. Heat phase (A) to 60°C and homogenize
2. Cool to room temperature
3. Add the components of phase (B) to (A) and homogenize

Spray pattern: fine dispensed droplets

Storage stability in terms of appearance: Stable at 8°C, room temperature and 40°C for at least 3 months

Appearance: liquid, yellow

Information:

Calculated SPF: 52.8

Star Rating: ***

UVA-PF/SPF [>0.33]: 0.38

Critical Wavelength: 373 nm

Transparent sunscreen pump spray without ethanol (SPF 30)

Formulation No.: 10673

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Eusolex OCR	9	Octocrylene	10.0	UVA-filter
	Eusolex HMS	9	Homosalate	10.0	UVB-filter
	Eusolex 9020	9	Butyl Methoxydi-benzoylmethane	5.0	UVA-filter
	Tinosorb S	16	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.5	UVA/UVB-filter
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	5.0	Keratolytic / moisturizing / sebum regulating
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.0	Film former / water resistance improver
	COSMACOL ELI	18	C12-13 Alkyl Lactate	20.0	Moisturizing agent / sebum regulating
B	COSMACOL ETI	18	Di-C12-13 Alkyl Tartrate	5.0	Polar emollient giving a silky skin feeling
	COSMACOL ELI	18	C12-13 Alkyl Lactate	19.5	Moisturizing agent / sebum regulating
	ISOFOL 18T	1	Octyldecanol	20.0	Medium spreading emollient
	D-Panthenol (w=0.98)	64	Panthenol	q.s.	Active care agent
	Tocopherol	9	Tocopherol	q.s.	Antioxidant /stabiliser for oxygen sensitive ingredients

*) supplier list page 58

Preparation:

1. Heat phase (A) to 60°C and homogenize
2. Cool to room temperature
3. Add the components of phase (B) to (A) and homogenize

Spray pattern: fine dispensed droplets

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid, yellow

Information:

Calculated SPF: 35.6

UVA-PF/SPF [>0.33]: 0.60

Star Rating: ****

Critical Wavelength: 375 nm

Transparent sunscreen spray (SPF 25 – EU)

Formulation No.: 11943

Phase	Trademark	*)	INCI name	Weight [%]	Function
	Ethanol (96%)		Alcohol denat.	add to 100	Cooling agent / solubilizer
	COSMACOL ELI	18	C12-13 Alkyl Lactate	2.0	Moisturizing agent / sebum regulating
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	5.0	Wrinkle reduction / moisturizing agent / velvety skin feel
	COSMACOL EBI	18	C12-15 Alkyl Benzoate	15.0	Org. UV-filter solubiliser / Solubilizing agent
	COSMACOL OE	1	Dicaprylyl Ether	12.0	Very light, good spreading emollient
	Uvinul A Plus B	16	Ethylhexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	15.5	UVA/UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.0	Film former / water resistance improver
	Tocopheryl Acetate		Tocopheryl Acetate	q.s.	Improves photo protection / active care agent

*) supplier list page 58

Preparation:

Homogenise the components in the above given order while stirring continuously

Spray pattern: fine dispensed droplets

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid, yellow

Information:

Calculated SPF: 26.5

UVA/UVB Ratio: 0.7

Star Rating: ***

UVA-PF/SPF [>0.33]: 0.36

Critical Wavelength: 372 nm

Aftersun milk

Formulation No.: 11930

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. ater		Aqua	add to 100		
	Glycerine		Glycerin	6.0	Moisturizing agent	
	Disodium EDTA		Disodium EDTA	0.1	Chelating agent	
B	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid	
	CERALUTION H	1	See page 59	2.5	Emulsifier, reduces crow feet wrinkles, moisturizing agent	
	NAFOL 1618 H	1	Cetearyl Alcohol	0.5	Co-emulsifier / consistency regulator	
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	3.0	Wrinkle reduction / moisturizing agent / velvety skin feel	
	COSMACOL OE	1	Dicaprylyl Ether	5.0	Very light, good spreading emollient	
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	2.0	Natural oil	
	ISOFOL 16	1	Hexyldecanol	5.0	Medium spreading emollient	
	Tocopheryl Acetate	59	Tocopheryl Acetate	q.s.	Improves photo protection / active care agent	
	C	Demin. water		Aqua	20.0	
		D-Panthenol (w=0.75)	64	Panthenol	1.0	Active care agent
Aloe Vera gel			Aloe Barbadensis Leaf Juice	0.2	Active care agent	
D	Ethanol (96%)		Alcohol denat.	6.0	Cooling agent / solubilizer	
	Menthol		Menthol	0.1	Cooling agent	
	Frescolat ML	90	Menthyl Lactate	0.5	Long lasting cooling agent	
	Hydrolite 5	90	Pentylene Glycol	2.0	Emulsion stabilizer	
E	Carbopol Ultrez 21 Polymer (w = 0.03)	30	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	5.0	Thickening and stabilizing agent	
F	Preservative			q.s.		
	Perfume		Parfum (EU) / Fragrance (US)	q.s.		
	NaOH (w=0.10)		Sodium Hydroxide	q.s.		

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C), (D), (E) and (F) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 7,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: milky

Foot balm with jojoba oil

Formulation No.: 10135

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid	
	Glycerine		Glycerin	4.0	Moisturizing agent	
B	CERALUTION H	1	See page 59	3.0	Emulsifier / reduces crow feet wrinkles / moisturizer	
	NAFOL 1618 H	1	Cetearyl Alcohol	2.0	Co-emulsifier / consistency regulator	
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	1.0	Mild keratolytic / skin smoothing	
	ISOFOL 20	1	Octyldodecanol	4.0	Medium spreading oil	
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed oil	1.0	Natural oil	
	COSMACOL SE	1	Distearyl Ether	0.5	Wax component / texture improver	
	COSMACOL ETLF	18	Dimyrstyl Tartrate	2.0	Polar waxy emollient / viscosity regulator	
	PARAFOL 12-97	1	Dodecane	1.0	Fast spreading emollient	
	MERKUR WOP 240 PB	2	Paraffinum Liquidum	15.0	Emollient	
	MERKUR VARA AB	2	Petrolatum	5.0	Emollient	
	Tocopheryl Acetate		Tocopheryl Acetate	0.5	Improves photo protection / active care agent	
	C	Demin. water		Aqua	20.0	
		D-Panthenol 75 L	64	Panthenol	1.5	Active care agent
Urea		9	Urea	10.0	Moisturizing agent	
Lactic acid		9	Lactic Acid	0.5	Moisturizing agent / buffer agent	
D	Carbopol Ultrez 21 Polymer (w = 0.03)	30	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	10.0	Thickening and stabilizing agent	
	Preservative			q.s.		
E	Perfume		Parfum (EU) / Fragrance (US)	q.s.		
	NaOH (w=0.10)		Sodium Hydroxide	q.s.		

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C), (D) and (E) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 48,000 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous

Eye care lotion

Formulation No.: 11931

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	Add to 100		
	Glycerine		Glycerin	6.0	Moisturizing agent	
	Disodium EDTA		Disodium EDTA	0.1	Chelating agent	
B	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid	
	CERALUTION H	1	See page 59	3.0	Emulsifier, reduces crow feet wrinkles, moisturizing agent	
	NAFOL 1822	1	Behenyl Alcohol	1.5	Co-emulsifier / consistency regulator	
	COSMACOL HE	18	PEG-7 Glyceryl Cocoate	2.5	Solubilizing agent	
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	2.5	Wrinkle reduction / moisturizing agent / velvety skin feel	
	COSMACOL ECL	18	Tri-C14-15 Alkyl Citrate	1.0	Mild keratolytic / skin smoothing	
	ISOFOL 16	1	Hexyldecanol	3.0	Medium spreading emollient	
	Eusolex 9020	9	Butyl Methoxydi-benzoyl-methane	1.0	UVA-filter	
	Eusolex OCR	9	Octocrylene	5.0	UVB-filter	
	Eusolex OS	9	Ethylhexyl Salicylate	5.0	UVB-filter	
	Pomegranate Seed oil	32	Punica Granatum (Pomegranate) Seed Oil	1.0	Natural oil	
	Beeswax	32	Cera Flava	1.0	Natural wax	
	Tocopherol Acetate	9	Tocopheryl Acetate	q.s.	Improves photo protection / active care agent	
	C	Tocopherol	9	Tocopherol	q.s.	Antioxidant / stabiliser for oxygen sensitive ingredients
	D	Panthenol (w = 0.75)	64	Panthenol	1.0	Active care agent
		Demin. water		Aqua	10.0	
E	1,2 Propandiol		Propylene Glycol	1.0	Humectant	
	Phenoxyethanol		Phenoxyethanol	0.5	Preservative	
	Hydrolite 5	90	Pentylene Glycol	2.0	Emulsion stabilizer	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.		

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C), (D) and (E) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 14,200 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous

Concentrate for wet wipes

Formulation No.: 10014

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION CC	1	See page 59	18.0	Self-emulsifying concentrate / cold-processing possible
B	PARAFOL 14-97	1	Tetradecane	12.0	Good spreading emollient
	MERKUR WOP 40 PB	2	Paraffinium Liquidium	50.0	Emollient
C	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	

*) supplier list page 58

Preparation:

1. Add phase (B) slowly to (A) at room temperature with turbulent stirring until the median particle size is $< 0.40 \mu\text{m}$. Please make sure that phase (B) is added slowly, otherwise local and irreversible phase inversion can occur. Just in case a high viscous phase will occur please add about 1% water before continue with adding phase (B)
2. Add phase (C) while stirring.
3. Add phase (D) and stir gently for a while

Viscosity (Haake, RheoStress 1, 1s^{-1}): $\sim 41,000 \text{ mPas}$, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous

Processing to get a low viscous emulsion for wet wipes (e.g. for make-up remover)

Phase	Trademark	Weight [%]
ABCD	CERALUTION CC concentrate	5.0
E	Demin. water	add to 100
F	Preservative, optional water soluble additives	q.s.
	Perfume	q.s.

Preparation:

4. Add phase (E) to (ABCD) at room temperature while stirring
5. Add phase (F) and stir gently for a while

Skin lightening cream

Formulation No.: 11945

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION CC	1	See page 59	7.5	Self-emulsifying concentrate / cold-processing possible
A1	Demin. water		Aqua	1.0	
B	COSMACOL EOI	18	C12-13 Alkyl Octanoate	4.0	Emollient / greasiness reducer
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	2.5	Wrinkle reduction / moisturizing agent / velvety skin feel
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	PARAFOL 12-97	1	Dodecane	7.5	Very light spreading emollient / Cyclomethicone replacer
	MERKUR WOP 240 PB	2	Paraffinum Liquidum	3.0	Emollient
	Tocopheryl Acetate	9	Tocopheryl Acetate	q.s.	Improves photo protection / active care agent
C	Demin. water		Aqua	add to 100	
	Keltrol CG T	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid
	1.3 Butandiole	9	Butylene Glycol	2.0	Moisturizing agent
	D-Panthenol (w=0.75)	64	Panthenol	1.5	Active care agent
	Melfade PF	59	Water (and) Arctostaphylos Uva Ursi (Bearberry)Extract (and) Glycerin (and) Magnesium Ascorbyl Phosphate	3.0	Active care agent
D	Demin.water with 3% Carbopol Ultrez 21	30	Acrylates/ C10-30 Alkyl Acrylate Crosspolymer	15.0	Thickening agent
	Dry Flo PC	41	Aluminum Starch Octenylsuccinate	0.5	Skin feel
	Sodium hydroxide 10% in water		Sodium Hydroxide	q.s.	pH-adjustment
	Preservative		Sodium Hydroxide	q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Add phase (B) to (A) with turbulent stirring until the median particle size analysis is < 0.40 µm. Please make sure that phase (B) is added slowly, otherwise local and irreversible phase inversion can occur. Should be the viscosity of the mixture too high during the addition of phase (B), stop the dosage of phase (B) and add phase (A1) under stirring. After the water is well dispersed, add slowly the rest of phase B in the same way before.
2. Add phase (C) and (D) to (AB) and homogenize
3. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 35,600 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous

Self tanning lotion

Formulation No.: 11925

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION CC	1	See page 59	5.0	Self-emulsifying concentrat / cold-processing possible
B	ISOFOL 16	1	Hexyldecanol	5.0	Medium spreading emollient
	COSMACOL EMI	18	Di-C12-13 Alkyl Malate	3.0	Moisturizing agent / sebum regulator
	PARAFOL 12-97	1	Dodecane	5.0	Very light spreading emollient / Cyclomethicone replacer
C	Demin. water		Aqua	add to 100	
	Keltrol CG T	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid
	Glycerine		Glycerin	2.0	Moisturizing agent
	Disodium EDTA		Disodium EDTA	0.1	Chelating agent
	Erythrulose	59	Erythrulose	1.5	Active agent
	Dihydroxyacetone	9	Dihydroxyacetone	5.0	Active agent
D	Simugel EG	70	Sodium Acrylate / Sodium Acryloyldimethyl Taurate (and) Isododecane (and) Polysorbate 80	2.0	Thickening and stabilizing agent
E	Preservative		Dihydroxyacetone	q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	
	Citric Acid		Citric acid	q.s.	pH-adjustment 4.0

*) supplier list page 58

Preparation:

1. Add phase (B) slowly to (A) at room temperature with turbulent stirring until the median particle size is $< 0.40 \mu\text{m}$. Please make sure that phase (B) is added slowly, otherwise local and irreversible phase inversion can occur. Just in case a high viscous phase will occur please add about 1% water before continue with adding phase (B)
2. Add phase (C) to (AB) and homogenize
3. Add phase (D) and (E) to (ABC) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s^{-1}): $\sim 23,000 \text{ mPas}$, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid-viscous

Antiperspirant roll-on

Formulation No.: 10956

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	7.5	
	Glycerine		Glycerin	4.0	Moisturizing agent / anti-freeze
B	CERALUTION H	1	See page 59	0.5	Emulsifier
	COSMACOL ELI	18	C12-13 Alkyl Lactate	2.0	Body odour control / moisturizer
	COSMACOL OE	1	Dicaprylyl Ether	2.5	Good spreading emollient
	PARAFOL 14-97	1	Tetradecane	1.5	Good spreading emollient
	MARLOSOL ST 9150 P	1	PPG-15 Stearyl Ether	1.5	Polar emollient / skin conditioner
C	Demin. water		Aqua	add to 100	
	Structure XL	67	Hydroxypropyl Srach Phosphate Ester	4.0	Thickening and stabilizing agent
D	Locron L	8	Aqua (and) Aluminium Chlorohydrat	10.0	Antiperspirant agent
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C), (D) and (E) to (ABC) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s⁻¹): ~ 1,500 mPas, 25°C

Storage stability in terms of appearance: Stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: liquid

Supplier list

1	Sasol Germany GmbH
2	Sasol Wax GmbH
3	Evonik Industries AG
5	CP Kelco
6	Symrise AG
8	Clariant Produkte Deutschland GmbH
9	Merck KgaA
16	BASF SE
18	Sasol Italy S.p.A.
20	Schülke & Mayr GmbH
21	Cosnaderm Chemische Rohstoffe GmbH
26	Acros Organics
27	drom fragrances GmbH & Co. KG
30	Lubrizol Advanced Materials
31	Cremer Oleo
32	Gustav Heess GmbH
35	Rohm and Haas Europe

39	Zschimmer & Schwarz GmbH & Co KG Chemische Fabriken
41	Akzo Nobel GmbH
55	Momentive
58	Nordmann, Rassmann GmbH
59	Azelis
60	ISP
61	Uniqema GmbH & Co. KG
62	FMC Corporation
64	DSM N.V.
67	National Starch
70	SEPPIC
75	DOW
78	Fragrance Resources GmbH
83	Inolex
84	Ashland
89	Rhodia

INCI name list

CERALUTION H

INCI name:

Behenyl Alcohol (and) Glyceryl Stearate (and) Glyceryl Stearate Citrate (and)
Disodium Ethylene Dicoamide PEG-15 Disulfate

CERALUTION CC

INCI name:

Aqua (and) Caprylic / Capric Triglyceride (and) Glycerin (and) Ceteareth-25 (and)
Disodium Ethylene Dicoamide PEG-15 Disulfate (and) Acacia Senegal Gum (and)
Behenyl Alcohol (and) Glyceryl Stearate (and) Glyceryl Caprylate (and)
Glyceryl Stearate Citrate (and) Phenoxyethanol (and) Xanthan Gum (and) Benzyl Alcohol
(and) Potassium Sorbate (and) Tocopherol (and) Citric acid (and) Undecyl Alcohol

CERALUTION ES

INCI name:

Ceteareth-25 (and) Disodium Ethylene Dicoamide PEG-15 Disulfate

Sasol is a registered trademark of Sasol Ltd. Product trademarks displayed in this document are the property of the Sasol Group of Companies, except where it is clear from the context that it is not. Users of this document are not permitted to use these trademarks without the prior written consent of their proprietor. All rights not expressly granted are reserved.

Disclaimer: The information contained in this document is based on Sasol's knowledge and experience at the time of its creation. We reserve the right to make any changes to this document or the products described therein, as a

result of technological progress or developments. This information implies no liability or other legal responsibility on our part, including with regard to existing third party patent rights. In particular, no guarantee or warranty of properties in the legal sense is implied. The customer is not exempted from the obligation to conduct careful inspection and testing of incoming goods. Reference to trademarks used by other companies is neither a recommendation, nor should it give the impression that products of other companies cannot be used. All our business transactions are governed exclusively by our General Business Conditions.



SASOL

At your service

Sasol Performance Chemicals

Anckelmannsplatz 1, 20537 Hamburg, Germany

info@de.sasol.com Telephone +49 40 63684 1000 Fax +49 40 63684 3700

Organics Division

Italy

sasol.italy@it.sasol.com

Telephone +39 025 8453 1

Fax +39 025 8453 285

Spain/Portugal

carlos.cabeza@de.sasol.com

Telephone +34 934 876 092

Fax +34 934 876 485

United Kingdom

info.uk@sasol.com

Telephone +44 1564 78 3060

Fax +44 1564 78 4088

Benelux

valentina.modugno@it.sasol.com

Telephone +39 02 58453 228

France

jean-francois.petit@fr.sasol.com

Telephone +33 1 44 01 05 37

Fax +33 1 47 662 425

Poland/Baltic States

janusz.duda@pl.sasol.com

Telephone +48 22 860 6146

Fax +48 22 860 6148

Slovakia

sloveca.sk@sloveca.sk

Telephone + 421 2 544 30 219

Fax +421 2 544 30 315

North America

info@us.sasol.com

Telephone +1 281 588 3000

South America

alvanei.martins@us.sasol.com

Telephone +55 11 4612 8199

Middle East

abbas.haroon@sasol.com

Telephone +97 14 8086 300

Fax +97 14 8086 400

Pacific Region

jackson.ding@cn.sasol.com

Telephone +852 3971 5988

Fax + 852 2530 4660

P. R. China

liangbo.lu@cn.sasol.com

Telephone +86 21 221 80 500

Fax +86 21 221 80 506

Japan

yoshihiro.ito@jp.sasol.com

Telephone +81 (3) 3248 6711

Fax +81 (3) 3248 6715

Russia

anna.kogut@de.sasol.com

Telephone +7 495 221 5142 750

Fax +7 495 926 4807

Wax Division

Michaela.deReus@de.sasol.com

Telephone +49 40 78115 482

www.sasol.com