

sasol
reaching new frontiers



Cosmetics formulary
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Foreword

Sasol is a leading producer of raw materials for cosmetics and personal care. This collection of guideline formulation examples provides an overview of how the wide range of Sasol raw materials 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 low-cost cleansing formulations, sunscreens (creams, lotions and sprays for the EU and USA), as well as shower creams and cream shampoos or 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.

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Transparent shampoo with climbazole and jojoba oil

Formulation No.: 8995

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT® 242/90 M	1	MIPA Laureth Sulfate (and) Propylene Glycol	15.0	Base surfactant / high foaming power
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	Crinipan AD	21	Climbazole	0.25	Antidandruff agent
	COSMACOL® ESI	18	Tridecyl Salicylate	0.3	Boosting agent for antidandruff
B	MARLOWET® CG	1	PEG-18 Castor Oil Dioleate	2.0	Emulsifier for oils
	Glycerine		Glycerin	0.5	Moisturizing agent
	Plantacare 1200 UP	4	Lauryl Glucoside	0.5	Co-surfactant
C	Cocamidopropyl Betaine (38% active)		Cocamidopropyl Betaine	5.0	Co-surfactant / foam booster
	NaCl		Sodium Chloride	1.5	
	Demin. water		Aqua	25.0	
D	U-Care Polymer LR 30 M	58	Polyquaternium-10	0.3	Quaternary conditioning agent
	Demin. water		Aqua	Add to 100	
E	Preservative			q.s.	Preservative
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
F	Antil 127	3	PEG-120 Methyl Glucose Dioleate	q.s.	Thickening agent

*) supplier list page 58

Preparation:

1. Heat phase A to 40 °C and stir gentle.
2. Add the components of phase B to phase A at room temperature and stir gentle.
3. Add phase C to AB.
4. Add phase D to phase ABC.
5. When this mixture becomes clear add phase E to phase ABCD.
6. Adjust the pH-value by addition of citric acid / NaOH (w = 0.20) to 5.5 – 6.0.
7. Add phase F to phase ABCDE.

Transparent shampoo with octopirox and jojoba oil

Formulation No.: 8994

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT® 242/90 M	1	MIPA Laureth Sulfate (and) Propylene Glycol	15.0	Base surfactant / high foaming power
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	Octopirox	8	Piroctone Olamine	0.25	Antidandruff agent
	COSMACOL® ESI	18	Tridecyl Salicylate	0.3	Boosting agent for antidandruff
B	MARLOWET® CG	1	PEG-18 Castor Oil Dioleate	2.0	Emulsifier for oils
	Glycerine		Glycerin	0.5	Moisturizing agent
	Plantacare 1200 UP	4	Lauryl Glucoside	0.5	Co-surfactant
C	Cocamidopropyl Betaine (38% active)		Cocamidopropyl Betaine	5.0	Co-surfactant / foam booster
	NaCl		Sodium Chloride	1.5	
	Demin. water		Aqua	25.0	
D	U-Care Polymer LR 30 M	58	Polyquaternium-10	0.3	Quaternary conditioning agent
	Demin. water		Aqua	Add to 100	
E	Preservative			q.s.	Preservative
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
F	Antil 127	3	PEG-120 Methyl Glucose Dioleate	q.s.	Thickening agent

*) supplier list page 58

Preparation:

1. Heat phase A to 40 °C and stir gentle.
2. Add the components of phase B to phase A at room temperature and stir gentle.
3. Add phase C to AB.
4. Add phase D to phase ABC.
5. When this mixture becomes clear add phase E to phase ABCD.
6. Adjust the pH-value by addition of citric acid / NaOH (w = 0.20) to 5.5 – 6.0.
7. Add phase F to phase ABCDE.

Shampoo with silicone oil

Formulation No.: 8524

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Carbopol® Aqua CC Polymer	30	Polyacrylate-1 Crosspolymer	9.0	Thickening agent
	Demin. water		Aqua	10.0	
A1	Keltrol CG BT	5	Xanthan Gum	0.1	Thickening agent
	Demin. water		Aqua	10.0	
B	CERALUTION® CC	1	See page 59	1.0	Self-emulsifying concentrate
	Silsoft 1215	55	Cyclopentasiloxane (and) Dimethiconol	2.0	Conditioning agent
	Perfume "Lifetime"	21	Parfum (EU) / Fragrance (US)	q.s.	
C	MARLINAT® 242/28	1	Sodium Laureth Sulfate	37.0	Basic surfactant / high foaming power
	Cocamidopropyl Betaine (38% active)	3	Cocamidopropyl Betaine	7.1	Co-surfactant / Foam booster
	COSMACOL® ELI	18	C12-13 Alkyl Lactate	0.5	Thickening agent / moisturizing agent
	Plantacare 1200 UP	4	Lauryl Glucoside	1.0	Co-surfactant
	Demin. water		Aqua	Add to 100	
D	Tocopherol	9	Tocopherol	q.s.	Antioxidant
	Preservative			q.s.	Preservative
	NaCl		Sodium Chloride	q.s.	Thickening agent

*) supplier list page 58

Preparation (at room temperature):

1. Mix phase A, A1 and B separately.
2. Add the components of phase C to phase B and stir gentle.
3. Add the components of phase D to phase BC and stir gentle.
4. Adjust the pH-value by addition of citric acid (w = 0.20) to 4.5.
5. Add phase A and A1 and stir gentle.



Shampoo formulation with pearlizing agent (active content approx. 10 %)

Formulation No.: 8307

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT® 242/70 C	1	Sodium Laureth Sulfate	10.0	Base surfactant / high foaming power
	Demin. water		Aqua	30.0	
B	COSMACOL® ELI	18	C12-13 Alkyl Lactate	0.3	Thickening agent / moisturizing agent
	Softigen 767	31	PEG-6 Caprylic/Capric Glycerides	0.3	Refatting and wetting agent / solubilizer / viscosity regulator
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Preservative			q.s.	Preservative
	Cocamidopropyl Betaine (38% active)	3	Cocamidopropyl Betaine	7.9	Co-surfactant / foam booster
	Demin. water		Aqua	Add to 100	
C	U-Care Polymer LR 30 M	58	Polyquaternium-10	0.4	Quaternary conditioning agent
	Demin. water		Aqua	20.0	
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. Homogenise phase A and phase C separately.
2. Add the components listed below phase B while stirring to phase A.
3. Add the mixture of C.
4. Add phase D.
5. Adjust the pH-value by addition of citric acid / NaOH (w = 0.20) to 5.5 – 6.0.
6. Add phase E.

Hair conditioner

Formulation No.: 6190

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	GALENOL® 1618AE	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 phase B separately to 75 °C.
2. Add phase B to phase A and homogenize for (min. 1 minute)
3. Cool to 35 °C under stirring and add phase C and stir for a while.
4. Add phase D under stirring with a spatula.

Mild transparent shampoo containing caring oil and vegetable-derived conditioner

Formulation No.: 8912

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT® 242/90 M	1	MIPA-Laureth Sulfate (and) Propylene Glycol	12.0	Base surfactant / high foaming power
	MARLOWET® CG	1	Glyceryl Caprylate	2.0	Emulsifier, foam booster
	Jjoba oil	32	Simmondsia Chinensis (Jjoba) Seed Oil	1.0	Natural oil
	PARAFOL® 12-97	1	Dodecane	0.5	Hair conditioning agent
	PARAFOL® 22-95	1	Docosane	0.5	Hair conditioning wax
	Glycerine		Glycerin	0.5	Moisturizing agent
	Plantacare 1200 UP	4	Lauryl Glucoside	0.5	Co-surfactant / foam booster
B	Cocamidopropyl Betaine (38% active)		Cocamidopropyl Betaine	9.0	Co-surfactant / foam booster
	NaCl		Sodium Chloride	1.5	
	Demin. water			25.0	
C	U-Care Polymer JR 400	58	Polyquaternium-10	0.3	Quaternary conditioning agent
	Demin. water			Add to 100	
D	Preservative			q.s.	Preservative
E	Antil 141 liquid	3	Polyethoxypropylen- glycoldioleate	q.s.	Thickening agent

*) supplier list page 58

Preparation:

1. Heat phase A to 40°C and stir gently.
2. Add phase B at RT to A and stir gentle.
3. Add phase C to AB.
4. When this mixture becomes clear add phase D to phase ABC.
5. Adjust the pH-value by addition of Citric acid / NaOH (w = 0.20) to 5.5 – 6.0.
6. Add phase E to phase ABCD.

Shampoo containing vegetable-derived conditioners

Formulation No.: 8951

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLOWET® CG	1	PEG-18 Castor Oil Dioleate	3.0	Emulsifier
	COSMACOL® EMI	18	Di-C12-13 Alkyl Malate	0.3	Hair conditioning agent
	PARAFOL® 12-97	1	Dodecane	0.5	Hair conditioning agent
	PARAFOL® 22-95	1	Docosane	0.5	Hair conditioning wax
	Glycerine		Glycerin	0.5	Moisturizing agent
	Plantacare 1200 UP	4	Lauryl Glucoside	0.5	Co-surfactant / foam booster
B	MARLINAT® 242/70 C	1	Sodium Laureth Sulfate	14.5	Base surfactant / high foaming power
C	Cocamidopropyl Betaine (38% active)		Cocamidopropyl Betaine	5.0	Co-surfactant / foam booster
	NaCl		Sodium Chloride	1.5	
	Demin. water			25.0	
D	U-Care Polymer JR 400	58	Polyquaternium-10	0.4	Quaternary conditioning agent
	Demin. water			Add to 100	
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	
	Antil 141 liquid	3	Polyethoxypropylen- glycoldioleate	q.s.	Thickening agent

*) supplier list page 58

Preparation:

1. Heat phase A to 40°C and stir gentle.
2. Add phase B at RT to A and stir gentle.
3. Add phase C to AB and stir gentle.
4. When this mixture becomes clear add phase D to phase ABC.
5. Adjust the pH-value by addition of Citric acid / NaOH (w = 0.20) to 5.5 – 6.0.
6. Add phase E to phase ABCD.

Hair conditioner with silicone oil

Formulation No.: 9099

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	GALENOL® 1618AE	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® ESI	18	Tridecyl Salicylate	0.5	Hair conditioning agent	
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	0.5	Hair conditioning agent	
	ISOFOL® 24	1	Decyltetradecanol	1.0	Hair conditioning agent	
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	0.5	Natural oil	
	GE Bayer Silikonöl 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	Thickening 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 phase B separately to 75 °C.
2. Add phase B to phase A and homogenize for (min. 1 minute)
3. Cool to 35 °C under stirring and add phase C and stir for a while.
4. Add phase D under stirring with a spatula.

Low concentrated clear liquid hand soap (active content approx. 6.0 %)

Formulation No.: 8305

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	Panthenol (w = 0.75)	26	Panthenol	q.s.	Active care agent
	Glycerine		Glycerin	1.0	Moisturizing agent
	COSMACOL® ELI	18	C12-13 Alkyl Lactate	0.2	Thickening agent / moisturizing agent
	Softigen 767	31	PEG-6 Caprylic/Capric Glycerides	0.2	Refatting and wetting agent / solubilizer / viscosity regulator
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Preservative			q.s.	Preservative
	Lactic acid	9	Lactic Acid	q.s.	Moisturizing agent
	Cocamidopropyl Betaine (38% active)	3	Cocamidopropyl Betaine	4.7	Co-surfactant / foam booster
	Demin. water		Aqua	Add to 100	
	C	NaCl		Sodium Chloride	q.s.

*) supplier list page 58

Preparation (at room temperature):

1. Stir phase A gentle.
2. Add the components listed below phase B while stirring in the mentioned order.
3. Adjust the pH-value by addition of citric acid / NaOH (w = 0.20) to 5.5 – 6.0.
4. Add phase C.

Low concentrated clear gel (active content approx. 9.0 %)

Formulation No.: 8306

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 (w = 0.75)	26	Panthenol	q.s.	Active care agent
	Glycerine		Glycerin	1.0	Moisturizing agent
	COSMACOL® ELI	18	C12-13 Alkyl Lactate	0.3	Thickening agent / moisturizing agent
	Softigen 767	31	PEG-6 Caprylic/Capric Glycerides	0.3	Refatting and wetting agent / solubilizer / viscosity regulator
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Preservative			q.s.	Preservative
	Lactic acid	9	Lactic Acid	q.s.	Moisturizing agent
	Cocamidopropyl Betaine (38% active)	3	Cocamidopropyl Betaine	7.1	Co-surfactant / foam booster
	Demin. water		Aqua	Add to 100	
C	NaCl		Sodium Chloride	q.s.	Thickening agent

*) supplier list page 58

Preparation (at room temperature):

1. Stir phase A gentle.
2. Add the components listed below phase B while stirring in the mentioned order.
3. Adjust the pH-value by addition of citric acid / NaOH (w = 0.20) to 5.5 – 6.0.
4. Add phase C.

Shower cream with 10% sunflower oil

Formulation No.: 7718

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Carbopol Ultrez 20 Polymer	30	Acrylates / C10-30 Alkyl Acrylate Crosspolymer	1.0	Thickening agent
	Demin. water		Aqua	Add to 100	
B	CERALUTION® CC	1	See page 59	2.5	Self-emulsifying concentrate / cold-processing possible possible / for sprays, wipes, lotions, creams
	Sunflower oil	32	Sunflower Oil	10.0	Natural oil
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
C	MARLINAT® 242/28	1	Sodium Laureth Sulfate	37.0	Basic surfactant / high foaming power
	Cocamidopropyl Betaine (38% active)	3	Cocamidopropyl Betaine	5.6	Co-surfactant / foam booster
	Glycerine		Glycerin	1.0	Moisturizing agent
	Demin. water		Aqua	10.0	
D	D-Panthenol (w = 0.75)	26	Panthenol	q.s.	Active care agent
	Tocopherol	9	Tocopherol	0.1	Antioxidant
	Lactic acid	9	Lactic Acid	0.2	Moisturising agent
	Preservative			q.s.	Preservative
	NaOH (w = 0.20)		Sodium Hydroxide	q.s.	pH adjustment

*) supplier list page 58

Preparation (at room temperature):

1. Mix phase A, B and C separately.
2. Add phase C to phase B and stir gentle.
3. Add the components of phase D to phase BC and stir gentle.
4. Adjust the pH-value by adding citric acid / NaOH (w = 0.20) to 5.0 – 5.5.
5. Add phase A to phase BCD and stir gentle.

Transparent shower gel with avocado and jojoba oil

Formulation No.: 9044

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT® 242/90 M	1	MIPA Laureth Sulfate (and) Propylene Glycol	12.0	Surfactant
	MARLOWET® CG	1	PEG-18 Castor Oil Dioleate	4.0	Emulsifier for oils
	Plantacare 1200 UP	1	Lavryl Glucoside	0.5	Co-surfactant
	Avocado oil	32	Persea Gratissima (Avocado) Oil	1.0	Natural oil
	Jojoba oil	32	Simmondsia Chinensis Oil	1.0	Natural oil
	Glycerine		Glycerin	1.0	Moisturizing agent
	COSMACOL® ELI	18	C12-13 Alkyl Lactate	0.3	Moisturizing agent
B	Cocamidopropyl Betaine (38% active)	3	Cocamidopropyl Betaine	4.7	Co-surfactant / foam booster
	NaCl		Sodium Chloride	1.5	
	Demin. water		Aqua	25.0	
C	Demin. water		Aqua	Add to 100	
D	Preservative	45		q.s.	Preservative
	Lactic acid	9	Lactic Acid	0.2	Moisturizing agent
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Panthenol (w = 0.75)	26	Panthenol	1.0	Active care agent
E	Glucamate DOE-120 Syrup	58	PEG-120 Methyl Glucose Dioleate	q.s.	Thickening agent

*) supplier list page 58

Preparation (at room temperature):

1. Mix phase A and B separately.
2. Add phase B to phase A and stir gentle.
3. Add phase C to phase AB.
4. When this mixture becomes clear add phase D to phase ABC.
5. Adjust the pH-value by addition of citric acid / NaOH (w = 0.20) to 5.5 – 6.0.
6. Add phase E to phase ABCD.

Water free shower oil with soya, castor and jojoba oil

Formulation No.: 8420

Phase	Trademark	*)	INCI name	Weight [%]	Function
	MARLINAT® 242/90 M	1	MIPA Laureth Sulfate (and) Propylene Glycol	25.0	Surfactant
	MARLOSOL® PK 9040	1	Laureth-4	30.0	Surfactant
	Soya oil	32	Glycine Soja (Soybean) Oil	33.0	Natural oil
	Castor oil	32	Castor Oil	9.0	Natural oil
	Jojoba oil	32	Simmondsia Chinensis Oil	1.0	Natural oil
	D-Panthenol (w=0.75)	26	Panthenol	0.7	Active care agent
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Tocopherol	9	Tocopherol	q.s.	Antioxidant

*) supplier list page 58

Preparation (at room temperature):

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

Blooming and foaming bath oil

Formulation No.: 9083

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Miglyol 812 N	31	Caprylic / Capric Triglyceride	45.0	Easy-spreading emollient / stable against oxidation
B	Imwitor 375	31	Glyceryl Citrate/Lactate/Oleate/Linoleate	5.0	O/W-emulsifier for high polar oils
C	Imwitor 988	31	Glyceryl Caprylate	15.0	Very polar emollient
D	COSMACOL® NII9	18	C12-13 Pareth-9	2.0	Powerful O/W-emulsifier
E	COSMACOL® OE	1	Dicaprylyl Ether	33.0	Emollient with good spreadability for intensive refatting
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

All ingredients are mixed at a temperature of 45 °C in descending order A to E.
It is important that oil becomes clear before adding the next raw material.

Shower cream with 0.5 % sunflower oil

Formulation No.: 9106

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLOWET® CG	1	PEG-18 Castor Oil Dioleate	3.0	Emulsifier for oils
	Sunflower oil	32	Sunflower Oil	0.5	Natural oil
	Plantacare 1200 UP	4	Lauryl Glucoside	0.5	Co-surfactant
	Glycerine		Glycerin	0.5	Moisturizing agent
B	MARLINAT® 242/70 C	1	Sodium Laureth Sulfate	14.5	Base surfactant / high foamer power
C	Cocamidopropyl Betaine (38% active)	3	Cocamidopropyl Betaine	5.0	Co-surfactant / Foam booster
	Demin. Water			5.0	
D	U-Care Polymer LR 30 M	58	Polyquaternium-10	0.4	Quaternary conditioning agent
	Demin. Water			Add to 100	
E	Preservative	45		q.s.	Preservative
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	
20	Antil 141 liquid	3	Propylene Glycol (and) PEG 55 Propylene Glycol Oleate	q.s.	Thickening agent
	NaCl		Sodium Chloride	q.s.	Thickening agent
F	Acusol OP 301	35	Styrene / Acrylates Copolymer	q.s.	Opacifier

*) supplier list page 58

Preparation (at room temperature):

1. Stir phase A.
2. Add phase B to phase A and stir gentle.
3. Add phase C to phase AB.
4. When phase D becomes clear add phase D to phase ABC.
5. Adjust the pH-value by addition of Citric acid / NaOH (w = 0.20) to 5.5 – 6.0.
6. Add phase E to phase ABCD and stir gentle.
7. Add phase F to phase ABCDE.

Anti-acne facial cleanser foam

Formulation No.: 9052

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	COSMACOL® OE	1	Dicaprylyl Ether	8.0	Good spreading agent
	Salicylic acid		Salicylic Acid	2.0	Anti acne agent
	Ethanol		Ethanol	2.0	Solubilising agent
B	MARLINAT® 242/90 M	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 Oil	0.8	Natural oil
	COSMACOL® ESI	18	Tridecyl Salicylate	1.0	Anti acne adjuvant, mild keratolytic / sebum regulating agent
	COSMACOL® EMI	18	Di C12-13 Alkyl Malate	0.3	Moisturizing / sebum regulating agent
	COSMACOL® ELI	18	C12-13 Alkyl Lactate	0.3	Keratolytic / 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
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
C	NaCl		Sodium Chloride	3.0	
	Cocamidopropyl Betain (38% active)	3	Cocamidopropyl Betain	4.9	Co-surfactant / foam booster
	Demin. water		Aqua	25.0	
D	Demin. water		Aqua	Add to 100	
E	Preservative			q.s.	Preservative
	Panthenol (w = 0.75)	26	Panthenol	q.s.	Active care agent
	Antil 200		PEG-200 Hydrogenated Glycerol Palmate (and) PEG-7 Glyceryl Cocoate	q.s.	Foam stabilising agent

*) supplier list page 58

Preparation (at room temperature):

1. Mix phase A., B. and C. separately.
2. Add the mixture of phase A. to phase B. and stir gentle.
3. Add the mixture of phase AB. to phase C. and stir gentle.
4. Add phase D. to phase ABC. and stir gentle.
5. When this mixture becomes clear add the components listed below E. and stir gentle.
6. Adjust the pH-value by addition of citric acid (w = 0.20) to 3 – 3.5.

pH-value: ~ 3.3

Facial cleansing foam

Formulation No.: 9045

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT® 242/90 M	1	MIPA Laureth Sulfate (and) Propylene Glycol	10.5	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
	Softigen 767	31	PEG-6 Caprylic/Capric Glycerides	0.5	Refatting and wetting agent / solubilising agent
	Plantacare 1200 UP	4	Lauryl Glucoside	0.5	Co-surfactant
	Glycerine		Glycerin	0.4	Moisturizing agent
	COSMACOL® ELI	18	C12-13 Alkyl Lactate	0.3	Moisturizing agent
	Antil 200	3	PEG-200 Hydrogenated Glyceryl Palmate (and) PEG-7 Glyceryl Cocoate	q.s.	Foam stabilizing agent
B	Cocamidopropyl Betaine (38% active)	3	Cocamidopropyl Betaine	5.0	Co-surfactant / foam booster
	NaCl		Sodium Chloride	2.5	
	Demin. water		Aqua	25.0	
C	Demin. water		Aqua	Add to 100	
D	Preservative			q.s.	Preservative
	D-Panthenol (w = 0.75)	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. Mix phase A and B separately.
2. Add phase B to phase A and stir gentle.
3. Add phase C to phase AB.
4. When this mixture becomes clear add phase D to phase ABC.
5. Adjust the pH-value by addition of citric acid / NaOH (w = 0.20) to 5.5 – 6.0.

Shaving foam

Formulation No.: 9048

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT® 242/90 M	1	MIPA Laureth Sulfate (and) Propylene Glycol	6.0	Base surfactant / high foaming power
	Edenor K 12-18	4	Coconut oil fatty acid	6.0	Lubricant
	MARLOWET® CG	1	PEG-18 Castor Oil Dioleate	1.0	Emulsifier for oils
	Merkur WOP 40 PB	48	Paraffinum Liquidum	1.0	Skin smoother
	Plantacare 1200 UP	4	Lauryl Glucoside	0.5	Co-surfactant
	Glycerine		Glycerin	0.5	Moisturizing agent
	Triethanolamine		Triethanolamine	6.0	Neutralizing agent
B	NaCl		Sodium Chloride	1.5	
	Cocamidopropyl Betaine (38% active)	3	Cocamidopropyl Betaine	3.0	Co-surfactant / mild foam booster
	Demin. water		Aqua	25.0	
C	Demin. water		Aqua	Add to 100	
D	Preservative			q.s.	Preservative
	Perfume "Patron"	78	Parfum (EU) / Fragrance (US)	q.s.	
	D-Panthenol (w = 0.75)	26	Panthenol	q.s.	Active care agent

*) supplier list page 58

Preparation (at room temperature):

1. Mix phase A and B separately.
2. Add phase B to phase A and stir gentle.
3. Add phase C to phase AB and stir gentle until this mixture becomes clear.
4. Add phase D to phase ABC.
5. Adjust the pH-value by addition of TEA to ~ 8.0.

Day cream with pomegranate oil

Formulation No.: 9086

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	Viscosity stabilizer
B	CERALUTION® H	1	See page 59	3.0	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 / moisturizer/ sebum control / velvety skin feel
	COSMACOL® ESI	18	Tridecyl Salicylate	3.0	Pore cleanser
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.5	Mild keratolytic/ skin smoothing
	COSMACOL® OE	18	Dicaprylylether	3.0	Very light, good spreading emollient
	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	Melting point at body temperature
	Pomegranate oil	32	Punica Granatum Seed Oil	1.0	Natural oil
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	3.0	UVB-filter
C	Blanova Vitamin E Acetat	59	Tocopheryl Acetate	0.3	Active care agent
	Demin. water		Aqua	10.0	
D	D-Panthenol 75 L	64	Panthenol	1.0	Active care agent
	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 70°C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35°C and add phase C to phase AB and homogenize for 1 minute.
4. Add phase D to phase ABC under stirring.

Night cream

Formulation No.: 9085

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	<i>Demin. water</i>		<i>Aqua</i>	Add to 100	
	<i>Glycerine</i>		<i>Glycerin</i>	5.0	<i>Moisturizing agent</i>
	<i>Keltrol CGT</i>	5	<i>Xanthan Gum</i>	0.3	<i>Thickening agent / hydrocolloid</i>
	<i>Aristoflex AVC</i>	8	<i>Ammonium Acryloyldimethyltaurate/VP Copolymer</i>	0.8	<i>Viscosity stabilizer</i>
B	<i>CERALUTION® H</i>	1	<i>See page 59</i>	3.0	<i>Active emulsifier/ reducing crow feet wrinkles/ moisturizer</i>
	<i>NAFOL® 1618 H</i>	1	<i>Cetearyl Alcohol</i>	2.0	<i>Co-emulsifier / consistency regulator</i>
	<i>COSMACOL® EMI</i>	18	<i>Di C12-13 Alkyl Malate</i>	6.0	<i>Wrinkle reduction/ moisturizer/ sebum control/ velvety skin feel</i>
	<i>COSMACOL® ESI</i>	18	<i>Tridecyl Salicylate</i>	3.0	<i>Pore cleanser</i>
	<i>COSMACOL® ECL</i>	18	<i>Tri C14-15 Alkyl Citrate</i>	3.0	<i>Mild keratolytic/ skin smoothing</i>
	<i>COSMACOL® ETI</i>	18	<i>Di C12-13 Alkyl Tartrate</i>	4.0	<i>Silky skin feel</i>
	<i>PARAFOL® 14-97</i>	1	<i>Tetradecane</i>	3.0	<i>Good spreading emollient</i>
	<i>Softisan 649</i>	31	<i>Bis-Diglyceryl Polyacyladipate-2</i>	1.0	<i>Protective oil component with high affinity to skin</i>
	<i>Shea Butter</i>		<i>Buryruspermum Parkii (Shea Butter)</i>	2.0	<i>Natural butter</i>
	<i>Blanova Vitamin E Acetat</i>	59	<i>Tocopheryl Acetate</i>	0.5	<i>Active care agent</i>
<i>Ronacare Bisabolol</i>	9	<i>Bisabolol</i>	0.3	<i>Active care agent</i>	
C	<i>Demin. water</i>		<i>Aqua</i>	10.0	
	<i>D-Panthenol 75 L</i>	64	<i>Panthenol</i>	1.5	<i>Active care agent</i>
D	<i>Preservative</i>			q.s.	
	<i>Perfume</i>		<i>Parfum (EU) / Fragrance (US)</i>	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 70°C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35°C and add phase C to phase AB and homogenize for 1 minute.
4. Add phase D to phase ABC under stirring.

Anti-acne-gelcream

Formulation No.: 9109

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	Viscosity stabilizer
B	CERALUTION® H	1	See page 59	3.0	O/W-emulsifier for high polar oils
	NAFOL® 1618 H	1	Cetearyl Alcohol	1.5	Co-emulsifier / consistency regulator
	COSMACOL® ELI	18	C12-13 Alkyl Lactate	2.0	Keratolytik / moisturizing / sebum regulating agent with a very light feeling
	COSMACOL® ESI	18	Tridecyl Salicylate	3.0	Anti acne adjuvant, mild keratolytic / sebum regulating agent
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.0	Mild keratolytic/ skin smoothing
	COSMACOL® OE	1	Dicaprylylether	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
C	Ronacare Bisabolol	9	Bisabolol	0.2	Active care agent
	Tocopherol	9	Tocopherol	0.3	Active care agent/ antioxidant
D	Demin. water		Aqua	10.0	
	D-Panthenol 75 L	64	Panthenol	1.0	Active care agent
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 70°C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35°C and add phase C to phase AB and homogenize again.
4. Add phase D and phase E to phase ABC while stirring consecutively.

Hydro energy gel for men

Formulation No.: 9084

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate/VP Copolymer	0.5	Rheology modifier / polymeric thickeners
	Glycerine		Glycerin	5.5	Moisturizing agent
	Demin. water		Aqua	28.7	
	Disodium EDTA		Disodium EDTA	0.1	Chelanting agent
B	COSMACOL® ELI	18	C12-13 Alkyl Lactate	2.0	Body odour control / moisturizer
	COSMACOL® OE	1	Dicaprylyl Ether	1.0	Good spreading emollient
	PARAFOL® 14-97	1	Tetradecane	1.0	Good spreading emollient
	Softigen 767	31	PEG-6 Caprylic/Capric Glycerides	2.0	Emulsifier and refatting agent to optimize the skin feeling
	Shea butter		Butyrospermum Parkii	1.0	Natural butter
	Menthol		Menthol	0.15	
C	Carbopol Ultrez-20	30	Acrylates/ C10-30 Alkyl Acrylate Crosspolymer	q.s.	Rheology modifier/ polymeric thickeners
	Ethanol (96%)		Alcohol denat.	20.0	
	Preservative			q.s.	
	Demin. water		Aqua	Add to 100	
D	Sodium Hydroxide 10% in water		Sodium Hydroxide	q.s.	
F	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and B separately to approx. 70 °C.
2. Phase C is mixed, homogenized and the pH value is adjust to 6,5.with phase D.
3. Mix phase A and add to phase B with stirring.
4. Homogenize phase AB.
5. Cool with gentle stirring to 35 °C.
6. Add phase C to phase AB.
7. At last the emulsion is homogenized.

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
	Allantoin	59	Allantoin	0.2	Active care agent
B	CERALUTION® H	1	See page 59	2.5	Gel network emulsifier and dispersant
	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 / velvety skin feel
	COSMACOL® ELI	18	Butylene Glycol Dicaprylate / Dicaprate	1.0	Emollient with good spreadability with dry non greasy skin feeling
	PARAFOL® 12-97	1	Dodecane	1.0	Fast spreading emollient
	Softisan 100	31	Hydrogenated Coco-Glycerides	1.5	Emollient / melting point at body temperature
	Ronacare Bisabolol	9	Bisabolol	0.2	Active care agent
C	Tocopherol	9	Tocopherol	0.5	Antioxidant
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	Moisturising agent / buffer agent
	Lactic acid	9	Lactic Acid	0.2	Moisturising agent / buffer agent
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 70°C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35°C and add phase C, phase D, phase E and phase F consecutively under gentle stirring.

Cleansing milk

Formulation No.: 9124

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
	Water(aqua), deionized with 3% Veegum	68	Ammonium Acryloyldimethyltaurate/VP Copolymer	15.0	Stabilizer
	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	Active emulsifier / reducing crow feet wrinkles / moisturizer
	NAFOL® 1618 H	1	Cetearyl Alcohol	1.0	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 100 PB	48	Paraffinium Liquidium	5.0	Emollient
	Softisan 100	31	Hydrogenated Coco-Glycerides	1.0	Melting point at body temperature
C	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

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*) supplier list page 58

Preparation of the Basic O/W Emulsion:

1. Heat phase A and phase B separately to 70°C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35°C and add phase C to phase AB under stirring.

Winter cream with D-Panthenol

Formulation No.: 9123

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	Add to 100	
	Glycerine		Glycerin	7.5	Humectant
	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	Active emulsifier / reducing crow feet wrinkles / moisturizer
	NACOL® 18-98	1	Cetearyl Alcohol	2.5	Co-emulsifier / consistency regulator
	COSMACOL® ETI	18	Di C12-13 Alkyl Tartrate	2.0	Silky skin feel
	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	Helianthusannuus (and) Calendula Officinalis Flower Extract (and) Tocopherol	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 phase B separately to 70°C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35°C and add phase C to phase AB while stirring consecutively.

Cream with evening primrose oil

Formulation No.: 8851

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	<i>Demin. water</i>		<i>Aqua</i>	Add to 100	
	<i>Glycerine</i>		<i>Glycerin</i>	10.0	<i>Moisturizing agent</i>
	<i>Keltrol CGT</i>	5	<i>Xanthan Gum</i>	0.5	<i>Thickening agent / hydrocolloid</i>
B	<i>CERALUTION® H</i>	1	<i>See page 59</i>	5.0	<i>Active emulsifier / reducing crow feet wrinkles / moisturizer</i>
	<i>NAFOL® 1618 H</i>	1	<i>Cetearyl Alcohol</i>	1.0	<i>Co-emulsifier / consistency regulator</i>
	<i>Evening primrose oil</i>	32	<i>Oenothera biennis oil</i>	17.0	<i>Natural oil</i>
	<i>Calendula oil</i>	32	<i>Calendula Officinalis Flower oil</i>	3.0	<i>Natural oil, active care agent</i>
	<i>Softisan 100</i>	31	<i>Hydrogenated Coco-Glycerides</i>	2.0	<i>Melting point at body temperature</i>
	<i>Shea Butter</i>	32	<i>Shea Butter</i>	2.0	<i>Natural butter</i>
	<i>Ronacare Bisabolol</i>	9	<i>Bisabolol</i>	0.3	<i>Active care agent</i>
C	<i>Tocopherol</i>		<i>Tocopherol</i>	0.2	<i>Active care agent / antioxidant</i>
D	<i>Demin. water</i>		<i>Aqua</i>	15.0	
	<i>Urea</i>	9	<i>Urea</i>	5.0	<i>Moisturizing agent</i>
	<i>D-Panthenol 75 L</i>	64	<i>Panthenol</i>	2.0	<i>Active care agent</i>
	<i>Demin. Water with 50% Sodiumlactate</i>	9	<i>Sodium Lactate</i>	2.5	<i>Moisturizing agent / buffer agent</i>
	<i>Lactic acid</i>	9	<i>Lactic Acid</i>	0.5	<i>Moisturizing agent / buffer agent</i>
E	<i>Preservative</i>			q.s.	
	<i>Perfume</i>		<i>Parfum (EU) / Fragrance (US)</i>	q.s.	

*) supplier list page 58

Preparation of the Basic O/W Emulsion:

1. Heat phase A and phase B separately to 65°C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35°C and add phase C to phase AB and stir for a while.
4. Add phase D to phase ABC under stirring.
5. Add phase E to phase ABCD under stirring.

Basic milk

Formulation No.: 9054

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION® CC	1	See page 59	4.0	Self-emulsifying concentrate / cold-processing possible / for sprays, wipes, lotions, creams
B	COSMACOL® ELI	18	C12-13 Alkyl Lactate	1.5	Body odour control / moisturizer
	COSMACOL® EMI	18	Di C12-13 Alkyl Malate	1.0	Moisturizer / sebum regulator
	Jojoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	Merkur WOP 100 PB	48	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 agent
E	Demin. water with 10% Sodium hydroxide		Sodium Hydroxide	1.0	pH-adjustment (~ 6-7)
F	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

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*) supplier list page 58

Preparation:

1. Add phase B to phase A at room temperature and homogenize.
Please make sure that phase B is added slowly, otherwise local and irreversible phase inversion can occur.
2. Add phase C, after the Keltrol is well swelled, to phase AB and stir.
3. Add phase D to phase ABC and neutralize with phase E.
4. Add phase F while stirring continuously.

Bodycare cream

Formulation No.: 9108

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
	Allantoin		Allantoin	0.3	Active care agent
B	CERALUTION® H	1	See page 59	5.0	Active emulsifier / reducing 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® ECL	18	Tri C14-15 Alkyl Citrate	1.5	Mild keratolytic / skin smoothing
	COSMACOL® ETLP	18	Dimyrstyl Tartrate	3.0	Polar waxy emollient / viscosity regulator
	PARAFOL® 12-97	1	Dodecane	1.5	Fast spreading emollient
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.0	Protective oil component with high affinity to skin
	Jjoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	0.5	Natural oil
	Calendula Oil	32	Helianthusannuus (and) Calendula Officinalis Flower Extract (and) Tocopherol	3.0	Natural oil
	Ronacare Bisabolol	9	Bisabolol	0.3	Active care agent
C	Demin. water		Aqua	10.0	
	D-Panthenol 75 L	64	Panthenol	1.5	Active care agent
C	Hydrolite-5		Pentylene Glycol	4.0	Fast spreading agent

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65°C.
2. Add phase B to phase A and homogenize until average particle size is <0.4 µm.
3. Cool to 30°C and add phase C to phase AB and homogenize for 1 minute.

Hand cream light and soft

Formulation No.: 9092

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Imwitor 960 K	31	Glyceryl Stearate SE	3.0	Self-emulsifying glyceryl stearate
	GALENOL® 1618 CS	18	Cetearylalcohol (and) Sodium Cetearyl Sulfate	3.0	Self-emulsifying fatty alcohol
	NAFOL® 1618 H	1	Cetearyl Alcohol	2.0	Viscosity increasing agent
	COSMACOL® EMI	18	Di-C12-13 Alkyl Malate	5.0	Moisturizing emollient
	COSMACOL® OE	1	Dicaprylyl Ether	6.0	Very light, good spreading emollient
	ISOFOL® 20	1	Octyldodecanol	3.0	Good spreading emollient
	Softigen 701	31	Glyceryl Ricinoleate	1.0	Skin protection and smoothing
B	Keltrol CG-T	5	Xanthan	0.3	Rheology modifier / polymeric thickeners
	Glycerine		Glycerin	4.0	Moisturizing agent
	Demin. water		Aqua	Add to 100	
	Preservative			q.s.	
C	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

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*) supplier list page 58

Preparation:

1. Dispers the Keltrol CG-T in phase B.
2. Heat phase A and B separately to approx. 75-80 °C.
3. Add phase A to phase B with stirring.
4. Homogenize.
5. Cool with gentle stirring to approx. 30-40 °C and add phase C



Repair lotion with urea

Formulation No.: 9076

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	Active emulsifier / reducing crow feet wrinkles / moisturizer
	NAFOL® 1822	1	Behenyl Alcohol	1.5	Co-emulsifier / consistency regulator
	COSMACOL® EMI	18	Di C12-13 Alkyl Malate	3.0	Moisturizing emollient / sebum regulator
	COSMACOL® ELI	18	C12-13 Alkyl Lactate	2.0	Body odour control / moisturizing emollient
	COSMACOL® OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	COSMACOL® SE	1	Distearyl Ether	1.0	Wax / skin feel
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	2.0	Protective oil component with high affinity to skin
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.5	Mild keratolitic / 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	0.3	Active care agent
	Vitamin E Acetat	59	Tocopheryl Acetate	0.5	Active care agent
	C	Demin. water		Aqua	15.0
Urea		9	Urea	10.0	Moisturizing agent
D-Panthenol 75 L		64	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 phase B separately to 65 °C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35 °C and add phase C to phase AB and stir for a while.
4. Add phase D to phase ABC under stirring.

Cream with caffeine

Formulation No.: 9111

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	<i>Demin. water</i>		<i>Aqua</i>	Add to 100	
	<i>Rapithix A100</i>	60	<i>Sodium Polyacrylate</i>	0.5	<i>Thickening agent</i>
	<i>Keltrol CGT</i>	5	<i>Xanthan Gum</i>	0.3	<i>Thickening agent / hydrocolloid</i>
	<i>Caffeine</i>	9	<i>Caffeine</i>	1.0	<i>Active agent</i>
	<i>Glycerine</i>		<i>Glycerin</i>	5.0	<i>Moisturizing agent</i>
	<i>Allantoin</i>	9	<i>Allantoin</i>	0.3	<i>Active care agent</i>
B	<i>CERALUTION® H</i>	1	<i>See page 59</i>	3.0	<i>Active emulsifier / reducing crow feet wrinkles / moisturizer</i>
	<i>NAFOL® 1618 H</i>	1	<i>Cetearyl Alcohol</i>	1.0	<i>Viscosity controlling agent</i>
	<i>COSMACOL® EMI</i>	18	<i>Di C12-13 Alkyl Malate</i>	3.0	<i>Wrinkle reduction / moisturizer / sebum control / velvety skin feel</i>
	<i>COSMACOL® ESI</i>	18	<i>Tridecyl Salicylate</i>	2.0	<i>Anti acne adjuvant, mild keratolytic / sebum regulating agent</i>
	<i>COSMACOL® OE</i>	1	<i>Dicaprylyl Ether</i>	4.0	<i>Very light, good spreading emollient</i>
	<i>COSMACOL® ETI</i>	18	<i>Di C12-13 Alkyl Tartrate</i>	3.0	<i>Silky skin feel</i>
	<i>COSMACOL® ECL</i>	18	<i>Tri C14-15 Alkyl Citrate</i>	1.5	<i>Mild keratolytic / skin smoothing</i>
	<i>COSMACOL® ETLP</i>	18	<i>Dimyrystyl Tartrate</i>	2.0	<i>Polar waxy emollient / viscosity regulator</i>
	<i>Softisan 649</i>	31	<i>Bis-Diglyceryl Polyacyladipate-2</i>	2.0	<i>Moisture retention / control of oilyness</i>
	<i>Tocopherol</i>	9	<i>Tocopherol</i>	0.5	<i>Antioxidant</i>
C	<i>Preservative</i>			q.s.	
	<i>Perfume</i>		<i>Parfum (EU) / Fragrance (US)</i>	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65°C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35°C and add phase C to phase AB and homogenize for 1 minute.

Sunscreen lotion (SPF 50) – high protection

Formulation No.: 9100

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	Add to 100	
	Glycerine		Glycerin	3.0	Moisturizing agent
	Edeta BD	9	Disodium EDTA	0.1	Chelating agent
	Keltrol CGT	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid
B	CERALUTION® H	1	See page 59	3.0	Gel network emulsifier and dispersant / for high filter efficiency (UV)
	NAFOL® 1618 H	1	Cetearyl Alcohol	0.5	Consistency regulator / increases viscosity
	COSMACOL® ESI	18	Tridecyl Salicylate	2.5	UVA stabilizer / org. UV-filter solubilizer / pigment wetter
	COSMACOL® EBI	18	C12-15 Alkyl Benzoate	5.0	Org. UV-filter solubilizer
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.5	Skin feel / film former / water resistance improver
	Shea Butter		Buryspermum Parkii (Shea Butter)	1.0	Natural butter
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.5	Melting point at body temperature
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	10.0	UVB-filter
	Uvinul T 150	16	Ethylhexyl Triazone	2.0	UVB-filter
	Uvinul A Plus	16	Diethylamino Hydroxybenzoyl Hexylbenzoate	10.0	UVA-filter
	Antaron V 220	60	VP/Eicosene Copolymer	1.5	Film former / water resistance improver
	Oxynex ST	9	Diethylhexyl Syringlidene Malonate	1.0	Stabilizer for UV-filter
	B 1	Eusolex T	9	Titanium Dioxide (and) Simethicone	5.0
C	Tocopherol	9	Tocopherol	0.1	Antioxidant
D	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 70°C.
2. Add phase B1 to phase B and homogenize until the Titanium Dioxide is well dispersed.
3. Add phase B/B1 to phase A and homogenize min. 1 minute.
4. Cool to 35°C and add phase C and phase D with a spatula.

Information:

Calculated SPF: 53.4 UVA/UVB Ratio: 0.87 Star Rating: ***
 UVA-PF/SPF [>0.33]: 0.34 Critical Wavelength: 379 nm UVA-PF: 20.5

Sunscreen lotion (SPF 50 – EU) - high protection

Formulation No.: 9060

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	Add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Edeta BD	9	Disodium EDTA	0.1	Chelating agent
	Keltrol CGT	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid
B	CERALUTION® H	1	See page 59	2.0	Gel network emulsifier and dispersant / for high filter efficiency (UV)
	NAFOL® 1618 H	1	Cetearyl Alcohol	1.0	Co-emulsifier / consistency regulator
	COSMACOL® EBI	18	C12-15 Alkyl Bezoate	4.5	Org. UV-filter solubilizer
	COSMACOL® ESI	18	Tridecyl Salicylate	2.5	UVA stabilizer / org. UV-filter solubilizer / pigment wetter
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.0	Skin feel / film former / water resistance improver
	Shea Butter	1	Butyrospermum Parkii (Shea Butter)	1.0	Natural butter
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.5	Oil component with high water binding capacity
	Jjoba oil	32	Simmondsia Chinensis (Jojoba) Seed Oil	1.0	Natural oil
	Eusolex 9020	9	Butyl Methoxy-dibenzoylmethane	5.0	UVA-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Tinosorb S	45	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.5	UVA / UVB-filter
	Antaron V 220	60	VP/Eicosene Copolymer	1.5	Film former / water resistance improver
	B 1	Eusolex T	9	Titanium Dioxide (and) Simethicone	8.0
C	Tocopherol	9	Tocopherol	0.1	Antioxidant
D	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65 °C.
2. Add phase B1 to phase B and homogenize until the Titanium Dioxide is well dispersed.
3. Add phase B/B1 to phase A and homogenize min. 1 minute.
4. Cool to 35 °C and add phase C and phase D with a spatula.

Information:

Calculated SPF: 55.8 UVA/UVB Ratio: 0.78 Star Rating: ***
 UVA-Balance: 58 Critical Wavelength: 379 nm

Sunsreen cream with ZnO (SPF 50 - US)

Formulation No.: 9088

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		<i>Aqua</i>	Add to 100	
	Demin. water with 3% Veegum	68	<i>Aqua (and) Magnesium Aluminium Silicate</i>	15.0	<i>Stabilizing agent</i>
	Glycerine		<i>Glycerin</i>	5.0	<i>Moisturizing agent</i>
	Keltrol CG	5	<i>Xanthan Gum</i>	0.3	<i>Thickening agent</i>
B	CERALUTION® H	1	<i>See page 59</i>	3.5	<i>Gel network emulsifier and dispersant / for high filter efficiency (UV)</i>
	NAFOL® 1618 H	1	<i>Cetearyl Alcohol</i>	1.0	<i>Co-emulsifier / consistency regulator</i>
	COSMACOL® ECL	18	<i>Tri C14-15 Alkyl Citrate</i>	2.0	<i>Skin feel / film former / water resistance improver</i>
	Softisan 649	31	<i>Bis-Diglyceryl Polyacyladipate-2</i>	1.5	<i>Oil component with high skin affinity to improve the water resistance</i>
	Eusolex 9020	9	<i>Butyl Methoxy-dibenzoylmethane</i>	3.0	<i>UVA-filter</i>
	Eusolex OCR	9	<i>Octocrylene</i>	10.0	<i>UVB-filter</i>
	Eusolex 4360	9	<i>Benzophenone-3</i>	6.0	<i>UVB-filter</i>
	Arlacel P135	61	<i>PEG-30 Dipolyhydroxy-stearate</i>	0.2	<i>Dispersant</i>
	Blanova Vitamin E Acetat	59	<i>Tocopheryl Acetate</i>	0.5	<i>Active care agent</i>
	Antaron V 220	60	<i>VP/ Eicosene Copolymer</i>	1.5	<i>Film former / water resistance improver</i>
B 1	Z-Cote HP 1	16	<i>Zinc Oxide (and) Dimethicone</i>	10.0	<i>Inorganic UVA / UVB-filter</i>
	COSMACOL® EBI	18	<i>C12-15 Alkyl Benzoate</i>	8.0	<i>Org. UV-filter solubilizer</i>
	COSMACOL® ESI	18	<i>Tridecyl Salicylate</i>	2.0	<i>UVA stabilizer / org. UV-filter solubilizer / pigment wetter</i>
C	Preservative			q.s.	
	Demin. water with 20% Citric acid	9	<i>Citric Acid</i>	q.s.	<i>pH-adjustment 6.0</i>
	Perfume		<i>Parfum (EU) / Fragrance (US)</i>	q.s.	

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*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65 °C.
2. Mix the components of phase B1 and homogenize until the Zinc Oxide is well dispersed.
3. Add phase B1 to phase B and homogenize until the Zinc Oxide is well dispersed.
4. Add phase B/B1 to phase A and homogenize for a while.
5. Cool to 35 °C under stirring and add phase C and stir for a while.

Sunscreen spray (SPF 10 – EU) - low protection

Formulation No.: 4023

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	10.0	
	Glycerine		Glycerin	5.0	Moisturizing agent / anti-freeze
	Keltrol CGT	5	Xanthan Gum	0.2	Thickening agent / hydrocolloid
B	CERALUTION® ES	1	See page 59	0.5	Emulsifier and dispersant / for high filter efficiency (UV)
	COSMACOL® EBI	18	C12-15 Alkyl Benzoate	5.0	Org. UV-filter solubilizer
	COSMACOL® ESI	18	Tridecyl Salicylate	2.5	UVA stabilizer / org. UV-filter solubilizer / pigment wetter
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.0	Skin feel / film former / water resistance improver
	Softisan 100	31	Hydrogenated Coco-Glycerides	1.5	Emollient / melting point at body temperature
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.0	Oil component with high skin affinity to improve the water resistance
	Eusolex 9020	9	Butyl Methoxy-dibenzoethylmethane	1.5	UVA-filter
40	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.5	Film former / water resistance improver
C	Tocopherol	9	Tocopherol	0.1	Antioxidant
D	Demin. water		Aqua	Add to 100	
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	20.0	Rheology modifier
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 72

Preparation:

1. Heat phase A and phase B to 70 °C.
2. Add B to A, and homogenize until the median particle size is < 0.50 µm or for ca. 2 minutes.
3. Cool down to 35 °C and add phase C under stirring.
4. Add phase D and phase E under gentle stirring.

Information:

Calculated SPF: 10.7 Star Rating: ***
 UVA-Balance: 44 Critical Wavelength: 375 nm

Sunscreen spray (SPF 25 – EU) - medium protection

Formulation No.: 9103

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	10.0	
	Glycerine		Glycerin	5.0	Moisturizing agent / anti-freeze
	Keltrol CGT	5	Xanthan Gum	0.15	Thickening agent / hydrocolloid
B	CERALUTION® ES	1	See page 59	2.5	Emulsifier and dispersant / for high filter efficiency (UV)
	COSMACOL® EBI	18	C12-15 Alkyl Benzoate	5.0	Org. UV-filter solubilizer
	COSMACOL® ESI	18	Tridecyl Salicylate	2.5	UVA stabilizer / org. UV-filter solubilizer / pigment wetter
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.0	Skin feel / film former / water resistance improver
	Shea Butter		Butyrospermum Parkii (Shea Butter)	0.5	Natural butter
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.0	Oil component with high skin affinity to improve the water resistance
	Eusolex 9020	9	Butyl Methoxy-dibenzoethylmethane	2.5	UVA-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Antaron V220	60	VP/ Eicosene Copolymer	1.5	Film former / water resistance improver
	B1	Eusolex T	9	Titanium Dioxide (and) Simethicone	4.5
C	Tocopherol	9	Tocopherol	0.1	Antioxidant
	Demin. water		Aqua	Add to 100	
D	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	20.0	Rheology modifier
	Preservative			q.s.	
E	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

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*) supplier list page 58

Preparation:

1. Heat phase A and phase B to 70 °C.
2. Add phase B1 to phase B and homogenize until the Titanium Dioxide is well dispersed.
3. Add B/B1 to A, and homogenize until the median particle size is < 0.50 µm or for ca. 2 minutes.
4. Cool down to 35 °C and add phase C under stirring.
5. Add phase D and phase E under gentle stirring.

Information:

Calculated SPF: 28,5 Star Rating: ***
 UVA-Balance: 42 Critical Wavelength: 379 nm

Sunscreen spray (SPF 30 – EU) - high protection

Formulation No.: 5834

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	10.0	
	Glycerine		Glycerin	5.0	Moisturizing agent / anti-freeze
	Keltrol CGT	5	Xanthan Gum	0.15	Thickening agent / hydrocolloid
B	CERALUTION® ES	1	See page 59	3.0	Emulsifier and dispersant / for high filter efficiency (UV)
	COSMACOL® EBI	18	C12-15 Alkyl Benzoate	5.0	Org. UV-filter solubilizer
	COSMACOL® ESI	18	Tridecyl Salicylate	2.5	UVA stabilizer / org. UV-filter solubilizer / pigment wetter
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.5	Skin feel / film former / water resistance improver
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.5	Oil component with high skin affinity to improve the water resistance
	Eusolex 9020	9	Butyl Methoxy-dibenzoethylmethane	3.0	UVA-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
42	Tinosorb S	45	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	1.0	UVA / UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.5	Film former / water resistance improver
	B1	Eusolex T	9	Titanium Dioxide (and) Simethicone	6.0
C	Tocopherol	9	Tocopherol	0.1	Antioxidant
D	Demin. water		Aqua	Add to 100	
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	12.5	Rheology modifier
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B to 70 °C.
2. Add phase B1 to phase B and homogenize until the Titanium Dioxide is well dispersed.
3. Add B/B1 to A, and homogenize until the median particle size is < 0.50 µm or for ca. 2 minutes.
4. Cool down to 35 °C and add phase C under stirring.
5. Add phase D and phase E under gentle stirring.

Information:

Calculated SPF: 37.1 Star Rating: ***
 UVA-Balance: 45 Critical Wavelength: 379 nm

Sunscreen spray (SPF 50+ – EU) - very high protection

Formulation No.: 5778

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	10	
	Glycerine		Glycerin	5	Moisturizing agent / anti-freeze
	Keltrol CGT	5	Xanthan Gum	0.15	Thickening agent / hydrocolloid
B	CERALUTION® ES	1	See page 59	3	Emulsifier and dispersant / for high filter efficiency (UV)
	COSMACOL® EBI	18	C12-15 Alkyl Benzoate	7.5	Org. UV-filter solubilizer
	COSMACOL® ESI	18	Tridecyl Salicylate	2.5	UVA stabilizer / org. UV-filter solubilizer / pigment wetter
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.5	Skin feel / film former / water resistance improver
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.5	Oil component with high skin affinity to improve the water resistance
	Eusolex 9020	9	Butyl Methoxy-dibenzoylmethane	5	UVA-filter
	Eusolex OCR	9	Octocrylene	10	UVB-filter
	Tinosorb S	45	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.5	UVA / UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.5	Film former / water resistance improver
	B1	Eusolex T	9	Titanium Dioxide (and) Simethicone	10.0
C	Tocopherol	9	Tocopherol	0.1	Antioxidant
D	Demin. water		Aqua	Add to 100	
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	12.5	Rheology modifier
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65 °C.
2. Add phase B1 to phase B and homogenize until the Titanium Dioxide is well dispersed.
3. Add phase B/B1 to phase A and homogenize until the median particle size is < 0.40 µm.
4. Cool to 35 °C under stirring and add phase C) and phase D and stir gently for a while.

Information:

Calculated SPF: >60 Star Rating: ***
 UVA-Balance: 53 Critical Wavelength: 379 nm

Sunscreen spray (SPF 50 – EU) - high protection

Formulation No.: 2109-226

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	7.5	
	Glycerine		Glycerin	5.0	Moisturizing agent / anti-freeze
	Keltrol CGT	5	Xanthan Gum	0.15	Thickening agent / hydrocolloid
B	CERALUTION® ES	1	See page 59	3.0	Emulsifier and dispersant / for high filter efficiency (UV)
	COSMACOL® EBI	18	C12-15 Alkyl Benzoate	5.0	Org. UV-filter solubilizer
	COSMACOL® ESI	18	Tridecyl Salicylate	2.5	UVA stabilizer / org. UV-filter solubilizer / pigment wetter
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	2.0	Skin feel / film former / water resistance improver
	Eusolex 9020	9	Butyl Methoxy-dibenzoylmethane	5.0	UVA-filter
	Eusolex 4360	9	Benzophenone-3	3.0	UVB-filter
	Eusolex OS	9	Octylsalicylate	5.0	UVB-filter
	Uvinul T 150	16	Ethylhexyl Triazone	5.0	UVB-filter
	Tinosorb S	45	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.0	UVA / UVB-filter
	44	Blanova Vitamin E Acetat	59	Tocopheryl Acetate	0.5
	Antaron V 220	60	VP/ Eicosene Copolymer	1.5	Film former / water resistance improver
B 1	Eusolex T	9	Titanium Dioxide (and) Simethicone	4.0	Inorganic UVA / UVB-filter
C	Demin. water		Aqua	Add to 100	
	Blanova Aloe Vera 200x WL	59	Aloe Barbadensis Leaf Juice	0.1	Active care agent
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	12.5	Rheology modifier
D	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65 °C.
2. Add phase B1 to phase B and homogenize until the Titanium Dioxide is well dispersed.
3. Add phase B/B1 to phase A and homogenize until the median particle size is < 0.40 mm.
4. Cool to 35 °C under stirring and add phase C and stir for a while.
5. Add phase D under stirring with a spatula.

Information:

Calculated SPF: 53.9 UVA/UVB Ratio: 0.64 Star Rating: ***
 UVA-Balance: 37 Critical Wavelength: 376 nm

Transparent sunscreen spray (SPF 50 – EU)

Formulation No.: 6911

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Uvinul A Plus	16	2-(4-Ethylamino-2-hydroxybenzoyl)-benzoic acid hexylester	10.0	UVA-filter
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	10.0	UVB-filter
	Uvinul T150	16	Ethylhexyl Triazone	5.0	UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.0	Film former / water resistance improver
	Softisan 100	31	Hydrogenated Coco-Glycerides	1.5	Emollient /melting point at body temperature
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.5	Oil component with high skin affinity to improve the water resistance
	COSMACOL® ESI	18	Tridecyl Salicylate	4.0	UVA stabilizer / org. UV-filter solubilizer
	COSMACOL® EBI	18	C12-15 Alkyl Benzoate	16.0	Org. UV-filter solubilizer
	COSMACOL® NII9	18	C12-13 Pareth-9	10.0	Solubilising agent / emulsifier
	B	Ethanol (96%)		Alcohol denat.	Add to 100
D-Panthenol 75 L		64	Panthenol	0.75	Active care agent
Tocopherol		59	Tocopherol	0.25	Antioxidant
1.3 Butanediol			Butylene Glycol	1.5	Moisturizing agent
C	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A to 60 °C and stir gently until it becomes clear.
2. Cool to 30 °C and add phase B to phase A and stir gently until phase AB is clear.
3. Add phase C to phase AB and stir gently for a while.

Information:

Calculated SPF: 51.4 UVA-PF/SPF: >0.33 Star Rating: ***
 UVA-PF: 14.5 Critical Wavelength: 378 nm

Cooling aftersun foam

Formulation No.: 9107

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	10.0	
	Glycerine		Glycerin	2.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.2	Thickening agent / hydrocolloid
	Glucopon 600 CSUP	4	Coco Glucoside	1.0	Co-emulsifier
B	CERALUTION® H	1	See page 59	0.5	Active emulsifier / reducing crow feet wrinkles / moisturizer
	COSMACOL® EOI	18	C12-13 Alkyl Octanoate	2.0	Emollient / greasiness reducer
	COSMACOL® EMI	18	Di C12-13 Alkyl Malate	1.0	Moisturizer / sebum control / velvety skin feel
	COSMACOL® EBI	18	C12-15 Alkyl Benzoate	2.0	Emollient
	Jjoba oil	1	Simmondsia Chienensis (Jjoba) Seed Oil	1.0	Natural oil
	COSMACOL® OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	PARAFOL® 12-97	1	Dodecane	2.0	Fast spreading emollient
	Blanova Vitamin E Acetat	59	Tocopheryl Acetate	0.5	Active care agent
C	Demin. water		Aqua	Add to 100	
	D-Panthenol 75 L	64	Panthenol	1.0	Active care agent
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	12.5	Rheology modifier
D	Ethanol		Alcohol	6.0	Preservative / cooling agent / solubilizer
	Menthol	59	Menthol	0.1	Cooling agent
	Frescolate ML	6	Menthyl Lactate	1.0	Cooling agent
E	Perfume		Parfum (EU) / Fragrance (US)	q.s.	
F	Protelan LS 9011	39	Sodium Lauroyl Sarcosinate	3.0	Mild surfactant / foam booster

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 70 °C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35 °C and add phase C to phase AB and homogenize for 1 minute.
4. Add phase D to phase ABC and homogenize.
5. Add phase E and phase F to phase ABCD under stirring.

Aftersun spray

Formulation No.: 9102

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	7.5	
	Glycerine		Glycerin	3.0	Moisturizing agent
	Allantoin	59	Allantoin	0.3	Active care agent
	Keltrol CGT	5	Xanthan Gum	0.2	Thickening agent / hydrocolloid
B	CERALUTION® ES	1	See page 59	1.0	Emulsifier and dispersant / for high filter efficiency (UV)
	COSMACOL® EMI	18	Di C12-13 Alkyl Malate	3.0	Moisturizer / sebum regulator
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	2.0	Active emollient / viscosity regulator / spreading agent
	COSMACOL® EOI	18	C12-13 Alkyl Octanoate	2.0	Emollient / greasiness reducer
	COSMACOL® OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.0	Protective oil component with high affinity to skin
	Shea Butter		Butyrospermum Parkii (Shea Butter)	0.5	Natural butter
	Jojoba oil	32	Simmondsia Chienensis (Jojoba) Seed Oil	1.0	Natural oil
	ISOFOL® 20	1	Octyldodecanol	3.0	Medium spreading oil / conditioning agent
	Avocado oil	32	Persea Gratissima (Avocado) Oil	2.5	Natural oil
	Ronacare Bisabolol	9	Bisabolol	0.2	Active care agent
	Blanova Vitamin E Acetat	59	Tocopheryl Acetate	0.5	Active care agent
	C	Demin. water		Aqua	Add to 100
D-Panthenol 75 L		64	Panthenol	1.5	Active care agent
Demin. water with 4% Avicel PC 611		62	Microcrystalline Cellulose (and) Cellulose Gum	12.5	Rheology modifier
D	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65 °C.
2. Add phase B to phase A and homogenize until the median particle size is < 0.5 mm.
3. Cool to 35 °C under gentle stirring and add phase C and stir gently for a while.
4. Add phase D under gentle stirring.

Repellent lotion

Formulation No.: 9114

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	3.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	Allantoin	9	Allantoin	0.3	Active care agent
	Water(Aqua),Deionized with 3% Veegum	68	Aqua and Magnesium Aluminium Silicate	15.0	Stabilizer
B	CERALUTION® H	1	See page 59	2.0	Active emulsifier/ reducing crow feet wrinkles/ moisturizer
	NAFOL® 1618 S	1	Cetearyl Alcohol	0.5	Co-emulsifier / consistency regulator
	COSMACOL® EMI	18	Di C12-13 Alkyl Malate	3.0	Wrinkle reduction/ moisturizer/ sebum control/ velvety skin feel
	COSMACOL® ETLP	18	Dimyrstyl Tartrate	2.5	Polar waxy emollient / viscosity regulator
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.5	Mild keratolitic / skin smoothing
	PARAFOL 14-97	1	Tetradecane	1.0	Good spreading emollient
	IR 3535	9	Ethyl Butylacetylaminopropionate	20.0	Insect repellent active
	Stimu-Tex	59	Spent Grain Wax	1.0	Anti-itching active
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	2.0	Moisture retention/ control of oiliness
	Shea Butter	32	Butyrospermum Parkii (Shea butter)	1.0	Natural butter
	Ronacare Bisabolol	9	Bisabolol	0.3	Active care agent
C	Lavendia oil	81	Lavandula Hybrida Oil	q.s.	Insect repellent active / fragrance
D	Demin. water		Aqua	10.0	
	D-Panthenol 75 L	14	Panthenol	1.5	Active care agent
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65°C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 40°C and add phase C to phase AB under stirring.
4. Dilute phase D under gentle stirring.
5. Add phase E to phase ABCD under stirring.

Hand & Nail lotion

Formulation No.: 9112

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION® CC	1	See page 59	4.0	Self-emulsifying concentrate / cold-processing possible / for sprays, wipes, lotions, creams
B	COSMACOL® ELI	18	C12-13 Alkyl Lactate	0.5	Body odour control / moisturizer
	COSMACOL® EMI	18	Di C12-13 Alkyl Malate	1.0	Moisturizer / sebum regulator
	COSMACOL® OE	1	Dicaprylyl Ether	3.0	Emollient with good spreadability for intensive refatting
	Merkur WOP 100 PB	48	Paraffinium Liquidium	5.0	Emollient
	Macadamia nut oil	32		1.0	Natural oil
	Jjoba oil	32	Simmondsia Chinensis (Jjoba) Seed Oil	1.0	Natural oil
	Ronacare Bisabolol	9	Bisabolol	0.2	Active care agent
C	Tocopherol	9	Tocopherol	0.1	Antioxidant
D	Demin. water		Aqua	add to 100	
	Ronacare Biotin Plus	9		1.0	Active care agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	Glycerine		Glycerin	2.0	Moisturizing agent / anti-freeze
	D-Panthenol (w=0.75)	64		1.0	Active care agent
D	Demin. water with 3% Carbopol Ultrez 10	30		7.5	Thickening agent
E	Demin. water with 10% Sodium Hydroxide		Sodium Hydroxide	0.8	pH-adjustment (~ 6-7)
F	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Add phase B to phase A at room temperature and homogenize.
Please make sure that phase B is added slowly, otherwise local and irreversible phase inversion can occur.
2. Add phase C, after the Keltrol is well swelled, to phase AB and stir.
3. Add phase D to phase ABC and neutralize with phase E.
4. Add phase F under stirring.

Skin lightening spray

Formulation No.: 4029

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	7.5	
	Glycerine		Glycerin	3.0	Moisturizing agent / anti-freeze
	Keltrol CGT	5	Xanthan Gum	0.2	Thickening agent / hydrocolloid
B	CERALUTION® ES	1	See page 59	1.0	Emulsifier
	COSMACOL® OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	COSMACOL® ETI	18	Di C12-13 Alkyl Tartrate	1.0	Silky skin feel
	COSMACOL® ELI	18	C12-13 Alkyl Lactate	1.0	Moisturizing agent
	COSMACOL® ESI	18	Tridecyl Salicylate	2.5	Pore cleanser
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.0	Mild keratolytic / skin smoothing
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	1.0	Protective oil component with high affinity to skin
	Softisan 100	31	Hydrogenated Coco-Glycerides	1.5	Melting point at body temperature
	PARAFOL® 12-97	1	Dodecane	5.0	Fast spreading emollient
	Merkur WOP 100 PB	48	Paraffinium Liquidium	5.0	Emollient
C	Blanova Vitamin E Acetat	59	Tocopheryl Acetate	0.6	Active care agent
	Demin. water		Aqua	Add to 100	
	D-Panthenol 75 L	64	Panthenol	1.5	Active care agent
	Melfade J	59	Aqua (and) Arctostaphylos Uva-Ursi Leaf Extract (and) Glycerin (and) Magnesium Ascorbyl Phosphate	3.0	Active care agent
D	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	15.0	Rheology modifier
	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65 °C.
2. Add phase B to phase A and homogenize until the median particle size is < 0.40 mm.
3. Cool to 35 °C under gentle stirring and add consecutively phase C, phase D and phase E and stir gently for a while.



Skin lightening cream

Formulation No.: 9104

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION® CC	1	See page 59	7.5	Self-emulsifying concentrate / cold-processing possible / for sprays, wipes, lotions, creams
A1	Demin. water		Aqua	1.0	
B	COSMACOL® EOI	18	C12-13 Alkyl Octanoate	2.0	Emollient / greasiness reducer
	COSMACOL® EMI	18	Di C12-13 Alkyl Malate	2.5	Moisturizing agent / sebum regulator
	COSMACOL® ESI	18	Tridecyl Salicylate	1.5	Pore cleanser
	COSMACOL® OE	1	Dicaprylyl Ether	2.0	Very light, good spreading emollient
	PARAFOL® 12-97	1	Dodecane	7.5	Fast spreading emollient
	Merkur WOP 240 PB	48	Paraffinium Liquidium	3.0	Emollient
	Blanova Vitamin E Acetat	59	Tocopheryl Acetate	0.6	Active care agent
C	Demin. water		Aqua	Add to 100	
	Demin. water with 3% Veegum	68	Magnesium Aluminium Silicate	10.0	Stabilizing agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent
	D-Panthenol 75 L	64	Panthenol	1.5	Active care agent
	1.3 Butandiole	9	Butylene Glycol	2.0	Moisturizing agent
	Melfade J	59	Aqua (and) Bearberry (Arctostaphylos Uraussi) 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
E	Dry Flo PC	41	Aluminum Starch Octenylsuccinate	0.5	Skin feel
F	Sodium hydroxide 10% in water		Sodium Hydroxide	q.s.	pH-adjustment
G	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58

Preparation:

1. Add phase B to phase 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 to phase AB under stirring.
3. Add consecutively phase D and phase E to phase ABC and stir gently for a while.

Self tanning lotion

Formulation No.: 9056

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION® CC	1	See page 59	5.0	Self-emulsifying concentrate / cold-processing possible / for sprays, wipes, lotions, creams
A1	Demin. water		Aqua	1.0	
B	ISOFOL® 16	1	Hexyldecabol	5.0	Good spreading agent / stable against oxidation
	COSMACOL® EMI	18	Di C12-13 Alkyl Malate	3.0	Moisturizing agent / sebum regulator
	PARAFOL® 12-97	1	Dodecane	5.0	Fast spreading emollient
C	Demin. water		Aqua	Add to 100	
	Demin. water with 3% Veegum	68	Magnesium Aluminium Silicate	15.0	Stabilizing agent
	Glycerine		Glycerin	2.0	Moisturizing agent / anti-freeze
	Edeta BD	16	Disodium EDTA	0.1	Chelating agent
	Keltrol CG	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid
	Erythrose	59	Erythrose	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	1.0	Thickening agent
E	Preservative			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 to phase 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 to phase AB under stirring.

3. Add consecutively phase D and phase E to phase ABC and stir gently for a while.

Liquid foundation

Formulation No.: 9105

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	<i>Demin. water</i>		<i>Aqua</i>	Add to 100	
	<i>Glycerine</i>		<i>Glycerin</i>	3.0	<i>Moisturizing agent</i>
	<i>D-Panthenol 75 L</i>	64	<i>Panthenol</i>	1.0	<i>Active care agent</i>
	<i>Keltrol CGT</i>	5	<i>Xanthan Gum</i>	0.3	<i>Thickening agent / hydrocolloid</i>
	<i>Aristoflex AVC</i>	8	<i>Ammonium Acryloyldimethyltaurate / VP Copolymer</i>	0.1	<i>Viscosity stabilizer</i>
B	<i>CERALUTION® H</i>	1	<i>See page 59</i>	3.0	<i>Gel network emulsifier and dispersant</i>
	<i>COSMACOL® EMI</i>	18	<i>Di C12-13 Alkyl Malate</i>	2.0	<i>Wrinkle reduction / moisturizer / sebum control / velvety skin feel</i>
	<i>COSMACOL® ECL</i>	18	<i>Tri C14-15 Alkyl Citrate</i>	0.5	<i>Skin feel / film former / water resistance improver</i>
	<i>Softisan 649</i>	31	<i>Bis-Diglyceryl Polyacyladipate-2</i>	2	<i>Oil component with high water binding capacity / provides a long lasting effect</i>
	<i>Softisan 100</i>	31	<i>Hydrogenated Coco-Glycerides</i>	1.5	<i>Emollient / melting point at body temperature</i>
	<i>PARAFOL® 14-97</i>	1	<i>Tetradecane</i>	3.0	<i>Good spreading emollient</i>
B1	<i>Soft Tex Yellow C33-7720</i>	58	<i>C.I. 77492</i>	0.5	<i>Color agent</i>
	<i>Soft Tex White C47-7756</i>	58	<i>C.I. 77891</i>	5.0	<i>Color agent</i>
	<i>Soft Tex Brown C33-7715</i>	58	<i>C.I. 77491; C.I. 77492; C.I. 77499</i>	1.5	<i>Color agent</i>
	<i>Titan (IV) oxide</i>	9	<i>Titanium Dioxide</i>	5.0	<i>Color agent</i>
	<i>Rona Flair Balance Red</i>	9	<i>MICA (and) Titanium Dioxide (and) Tin Oxide</i>	2.0	<i>Color agent</i>
	<i>Rona Flair Balance Gold</i>	9	<i>MICA (and) Titanium Dioxide (and) Tin Oxide</i>	0.5	<i>Color agent</i>
	<i>Rona Flair Balance Blue</i>	9	<i>MICA (and) Titanium Dioxide (and) Tin Oxide</i>	0.2	<i>Color agent</i>
	<i>COSMACOL® ETI</i>	18	<i>Di C12-13 Alkyl Tartrate</i>	5.0	<i>Pigment wetter / skin feel</i>
	<i>COSMACOL® EBI</i>	18	<i>C12-15 Alkyl Benzoate</i>	10.0	<i>Pigment wetter / skin feel</i>
C	<i>Preservative</i>			q.s.	

*) supplier list page 72

Preparation:

1. Heat phase A and phase B separately to 70 °C.
2. Homogenize phase B1 until the color pigments are well dispersed.
3. Add phase B1 to phase B and homogenize again.
4. Add phase B/B1 to phase A and homogenize for min. 1 minute.
5. Cool to 40 °C and add phase C under stirring.

Foot cream

Formulation No.: 8807

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	Add to 100	
	Rapithix A100	60	Sodium Polyacrylate	0.5	Thickening agent
	Keltrol CGT	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid
	Glycerine		Glycerin	5.0	Moisturizing agent
	Allantoin	9	Allantoin	0.3	Active care agent
B	CERALUTION® H	1	See page 59	3.0	Active emulsifier / reducing crow feet wrinkles / moisturizer
	NAFOL® 1618 H	1	Cetearyl Alcohol	1.0	Viscosity controlling agent
	COSMACOL® ECL	18	Tri C14-15 Alkyl Citrate	1.5	Mild keratolytic / skin smoothing
	COSMACOL® SE	1	Distearyl Ether	1.0	Wax component / texture improver
	COSMACOL® ETLP	18	Dimyrstyl Tartrate	2.0	Polar waxy emollient / viscosity regulator
	PARAFOL® 12-97	1	Dodecane	1.5	Fast spreading emollient
	Merkur WOP 240	48	Paraffinium Liquidium	2.0	Emollient
	Merkur Vaseline	48	Petrolatum	3.0	Emollient
	Softisan 649	31	Bis-Diglyceryl Polyacyladipate-2	2.0	Moisture retention/ control of oiliness
	Calendula Oil	32	Helianthusannuus (and) Calendula Officinalis Flower Extract (and) Tocopherol	2.5	Natural oil
C	Demin. water		Aqua	20.0	
	D-Panthenol 75 L	64	Panthenol	1.5	Active care agent
	Urea	9	Urea	10.0	Moisturizing agent
	Aloe Vera		Aloe Barbadensis	0.2	Active care agent
	Lactic acid	9	Lactic Acid	0.3	Moisturizing agent / buffer agent
	Demin. Water with 50% Sodiumlactate	9	Sodium Lactate	2.5	Moisturizing agent / buffer agent
	Preservative			q.s.	

*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65°C.
2. Add phase B to phase A and homogenize for 1 minute.
3. Cool to 35°C and add phase C to phase AB and homogenize for 1 minute.

Antiperspirant roll-on

Formulation No.: 5789

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	Gel network emulsifier
	COSMACOL® ELI	18	C12-13 Alkyl Lactate	2.0	Body odour control / moisturizer
	COSMACOL® OE	1	Dicaprylyl Ether	2.5	Very light, 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	41	Hydroxypropyl Srach Phosphate Ester	4.0	Thickening agent
D	Locron SQH	8	Aqua (and) Aluminium Chlorohydrat	20.0	Antiperspirant agent
E	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

*) supplier list page 58 | 55

Preparation:

1. Heat phase A and phase B separately to 65 °C.
2. Add phase B to phase A and homogenize until the median particle size is < 0.40 mm.
3. Cool to 35 °C under gentle stirring and add consecutively phase C, phase D and phase E and stir gently for a while.

Antiperspirant spray

Formulation No.: 5600

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	<i>Demin. water</i>		<i>Aqua</i>	7.5	
	<i>Glycerine</i>		<i>Glycerin</i>	3.0	<i>Moisturizing agent / anti-freeze</i>
	<i>Keltrol CG-BT</i>	5	<i>Xanthan Gum</i>	0.1	<i>Thickening agent / hydrocolloid</i>
B	<i>CERALUTION® ES</i>	1	<i>See page 59</i>	1.0	<i>Emulsifier and dispersant / for high filter efficiency (UV)</i>
	<i>COSMACOL® ELI</i>	18	<i>C12-13 Alkyl Lactate</i>	2.0	<i>Body odour control / moisturizer</i>
	<i>COSMACOL® OE</i>	1	<i>Dicaprylyl Ether</i>	1.0	<i>Good spreading emollient</i>
	<i>PARAFOL® 14-97</i>	1	<i>Tetradecane</i>	1.0	<i>Good spreading emollient</i>
	<i>MARLOSOL® ST 9150 P</i>	1	<i>PPG-15 Stearyl Ether</i>	1.0	<i>Polar emollient / skin conditioner</i>
C	<i>Demin. water</i>		<i>Aqua</i>	Add to 100	
	<i>Naviance Instant Maize</i>	41	<i>Zea Mays (Corn) Starch</i>	4.0	<i>Rheology modifier</i>
D	<i>Locron SQH</i>	8	<i>Aqua (and) Aluminium Chlorohydrat</i>	20.0	<i>Antiperspirant agent</i>
	<i>Preservative</i>			q.s.	
E	<i>Perfume</i>		<i>Parfum (EU) / Fragrance (US)</i>	q.s.	

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*) supplier list page 58

Preparation:

1. Heat phase A and phase B separately to 65 °C.
2. Add phase B to phase A and homogenize until the median particle size is < 0.40 mm.
3. Cool to 35 °C under gentle stirring and add consecutively phase C, phase D and phase E and stir gently for a while.

Concentrate for wet wipes

Formulation No.: 5788

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION® CC	1	See page 59	18.0	Self-emulsifying concentrate / cold-processing possible / for sprays, wipes, lotions, creams
B	PARAFOL® 14-97	1	Tetradecane	12.0	Good spreading emollient
	Merkur® WOP 100 PB	48	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 to phase 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. Added phase C while stirring.
3. Add phase D and stir gently for a while.

Information:

Viscosity: Approx. 10000 mPas (Haake Rheometer RS 80; PP60; shear rate = 10/s)
 Stability: At least 3 months at 40 °C respectively 2 month at 50 °C

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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 phase ABCD at room temperature while stirring.
5. Add phase F and stir gently for a while.

Supplier list

1	Sasol Germany GmbH
3	Evonik Industries AG
4	Cognis GmbH
5	CP Kelco
6	Symrise GmbH
8	Clariant GmbH
9	Merck KGaA
14	Spinnrad GmbH
15	Deutsche Shell AG
16	BASF AG
17	BF Goodrich
18	Sasol Italy S.p.A.
20	Schülke & Mayr GmbH
21	Cosnaderm Chemische Rohstoffe GmbH
26	Acros Organics, USA
27	drom fragrances international KG
30	Lubrizol Advanced Materials
31	Cremer Oleo
32	Gustav Heess GmbH
35	ROHM AND HAAS COMPANY, INC.
39	Zschimmer & Schwarz GmbH & Co KG
41	Akzo Nobel Chemical

45	Ciba Specialty Chemicals Corporation
47	Summit Research Labs, Inc.
48	Sasol Wax GmbH
49	Henry Lamotte GmbH
52	Croda Olechemicals
54	dr. straetmans
55	Momentive
57	Biesterfeld
58	Nordmann, Rassmann GmbH
59	Azelis
60	ISP
61	Uniquema
62	FMC Corporation
64	DSM N.V
68	R. T. Vanderbilt Company, Inc.
73	Sisterna B.V
74	Amerchol Corporation
75	DOW Deutschland
77	Schill+Seilacher Aktiengesellschaft
78	Fragrance Resources GmbH
83	Innolex Chemical Co.

INCI name list

CERALUTION® H

INCI name:

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

CERALUTION® CC

INCI name:

Aqua (and) Caprylic/ Capric Triglyceride (and) Glycerin (and) Ceteareth-25 (and) Disodium Ethylene Dicocamide 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 Dicocoamide PEG-15 Disulfate

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