

PERSONAL CARE FORMULATION GUIDE





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CREAMY FOAM EXPERIENCE FOR PUMP DISPENSER

Part	INCI/ Ingredient	Trade Name	% w/w
A	Aqua		73.90
	Glycerin		5.00
B	Xanthan Gum		0.10
	Coco Glucoside, 51 – 53%		3.00
C	Sodium Cocoyl Sarcosinate, 30%	PERLASTAN C-30 (Schill+Seilacher GmbH)	5.00
	Sodium Laureth Sulfate, 28%		13.00
D	Citric Acid		qs to pH
E	Fragrances	White Tea & Lotus (Symrise)	qs
	Preservatives etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70 °C
- Maintain temperature and add Part **B** while stirring
- Mix until preparation appears homogeneous
- Cool down to room temperature while stirring
- Add Part **C** in listed order
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: colourless, clear liquid
 Water content: 84 – 88%
 pH-value: 5.5
 Viscosity: 180 – 220 mPa*s
 (Brookfield, Sp.3, 0.5 rpm, RT)

CLEAR FACIAL CLEANSING GEL

Part	INCI/ Ingredient	Trade Name	% w/w
	Aqua		25.80
A	Disodium Cocoyl Glutamate, 35%	PERLASTAN SCG 35 (Schill+Seilacher GmbH)	26.70
	Sodium Laureth Sulfate, 28%		32.75
B	Cocamidopropyl Betaine, 38%		13.75
C	Sodium Chloride		2.00 – 3.00
D	Citric Acid		qs to pH
E	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Add Part **B** to Part **A** and mix until formulation appears homogeneous at room temperature
- Adjust viscosity by adding Part **C**.
 Mix until formulation is clear
a)* 2.00% Part C: 1000 – 2500 mPa*s
b)* 3.00% Part C: 2500 – 3500 mPa*s
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: colourless, clear gel
 Water content: 73 – 74%
 pH-value: 5.5
 * Viscosity: 1000 – 3500 mPa*s
 (Brookfield, Sp.5, 5 rpm, RT)



FACIAL SCRUB “BLUE NATURE”

Part	INCI/ Ingredient	Trade Name	% w/w
A	Aqua		61.75
B	Cellulose Gum (and) Carrageenan (and) Ceratonia Siliqua Gum (and) Sucrose	Sucraclear HC-31 (ALFA Chemicals Ltd.)	1.75
	Sodium Cocoyl Glutamate/Disodium Cocoyl Glutamate, 25%	PERLASTAN SC 25 NKW (Schill+Seilacher GmbH)	24.00
C	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	6.00
	Glycerin		5.00
D	Citric Acid		qs to pH
E	Oryza Sativa (Rice) Bran Wax, Blue	NatureBlue 20 RS (Micro Powders, Inc.)	1.50
F	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70°C
- Maintain temperature and add Part **B** while stirring
- Mix until preparation appears homogeneous
- Cool down to room temperature while stirring
- Add Part **C** in listed order
- Adjust pH-value with Part **D**
- Add Part **E** and homogenize by stirring
- Add Part **F**

CLAIMS

SUCRACLEAR HC-31	ECOCERT thickening agent
PERLASTAN SC 25 NKW	Mild surfactant with COSMOS, ECOCERT, NATRUE, ECO-Label and Nordic Swan
PERLASTAN L-30	Mild surfactant with high foaming ability
NATUREBLUE 20 RS	Naturally derived blue peeling

ECOCERT MICELLAR WATER

Part	INCI/Ingredient	Trade Name	% w/w
A	Rosa Damascena Flower Water		97.70
	Glycerin		0.20
B	Sodium Cocoyl Glutamate / Disodium Cocoyl Glutamate, 25%	PERLASTAN SC 25 NKW (Schill+Seilacher GmbH)	2.00
	Sodium Hyaluronate	Renovhyal (Givaudan SA)	0.10
C	Citric Acid		qs to pH
D	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A**
- Add Part **B** in listed order and mix until formulation appears homogeneous
- Adjust pH-value with Part **C**
- Add Part **D**

PROPERTY

Appearance: colourless, clear liquid
pH-value: 5.5

CLAIMS

PERLASTAN SC 25 NKW	Mild surfactant with COSMOS, ECOCERT, NATRUE, ECO-Label and Nordic Swan
RENOVHYAL	COSMOS, ECOCERT polysaccharide for conditioning, moisture and tissue repair
ROSA DAMASCENA FLOWER WATER	Skin protecting emollient
GLYCERIN	Skin moisturising agent

FOAMING SHAVE GEL

Part	INCI/Ingredient	Trade Name	% w/w
A	Aqua		43.50
	Acrylates Copolymer, 30%		10.00
	Polysorbat 20		1.00
	Glycerin		0.50
B	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	30.00
	Lauryl Glucoside, 50 – 53%		10.00
	Cocamidopropyl Betaine, 38%		5.00
C	Citric Acid		qs to pH
D	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order until preparation appears homogeneous
- Add Part **B** in listed order
- Mix until formulation appears homogeneous
- Adjust pH-value with Part **C**
- Add Part **D**

PROPERTY

Appearance: white gel
pH-value: 5.5



LIQUID HAND SOAP “ODOUR NEUTRALIZER”

Part	INCI/Ingredient	Trade Name	% w/w
A	Aqua		74.00
B	Xanthan Gum		1.00
	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	5.00
	Sodium Laureth Sulfate, 28%		15.00
C	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	2.00
	GLDA, 47%		1.00
	Glycerin		2.00
D	Citric Acid		qs to pH
E	Preservatives, Fragrances, etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70°C
- Maintain temperature and add Part **B** while stirring
- Mix until preparation appears homogeneous
- Cool down to room temperature while stirring
- Add Part **C** in listed order
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: clear gel
pH-value: 5.5

CLAIMS

PERLASTAN L-30

Mild surfactant with high foaming ability

POLYFIX ZRC 25 GP

Eco-friendly odour absorber concentrate

ULTRA LIGHT, SILKY TOUCH BODY LOTION

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		78.50
A	Sodium Cocoyl Glutamate/Disodium Cocoyl Glutamate, 25%	PERLASTAN SC 25 NKW (Schill+Seilacher GmbH)	2.00
	Glycerin		2.00
B	Carbomer		0.50
	Dicaprylyl Carbonate		4.50
	Macadamia Ternifolia Seed Oil		4.00
C	Squalane		3.00
	Glyceryl Oleate		3.00
	Potassium Cetyl Phosphate, Oryza Satira Bran Cera	Pair2Phase2 (Schill+Seilacher GmbH)	2.50
D	Sodium Hydroxide		qs to pH
E	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 75°C
- Add Part **B** to Part **A** and mix until formulation appears homogeneous
- Mix Part **C** in a separate vessel and heat up to 75°C
- Add Part **C** while stirring and homogenize under high shear
- Cool down to room temperature while stirring
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: white cream
pH-value: 5.5

SUN CREAM NEW

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		62.80
A	Glycerin		2.00
	Propylene Glycol		4.00
	Potassium Cetyl Phosphate (and) Behenyl Alcohol	Pair2Phase1 (Schill+Seilacher GmbH)	5.00
	Simmondsia Chinensis (Jojoba) Seed Oil		4.00
	Butyrospermum Parkii (Shea) Butter		4.00
B	Octocrylene		10.00
	Ethylhexyl Salicylate		4.00
	Butyl Methoxydibenzoylmethane		2.50
	Benzophenone-3		1.50
	Bisabolol		0.20
C	Citric Acid		qs to pH
D	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 75°C
- Heat Part **B** up to 75°C
- Add Part **B** to Part **A** and mix until formulation appears homogeneous
- Cool down to room temperature while stirring
- Adjust pH-value with Part **C**
- Add Part **D**

PROPERTY

Appearance: white cream
pH-value: 5.5

SUNSCREEN WITH MINERAL UV-FILTERS NEW

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		55.00
A	Glycerin		5.00
B	Potassium Cetyl Phosphate (and) Oryza Sativa Bran Cera	Pair2Phase2 (Schill+Seilacher GmbH)	5.00
	Capryl/Capric Triglyceride		25.00
	Zinc Oxide (and) Jojoba Esters		5.00
C	Titanium Dioxide (and) Hydrated Silica (and) Jojoba Esters		5.00
D	Citric Acid		qs to pH
E	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 75 – 80°C
- Heat Part **B** up to 75 – 80°C
- Add Part **B** to Part **A** and mix until formulation appears homogeneous
- Cool down to room temperature while stirring
- Add Part **C**
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: white cream
pH-value: 5.5

CLAIMS**Pair2Phase2**

COSMOS and NATRUE certified emulsifier that allows the formulation of water resistant sun care products with soothing skin feel without stickiness.



BABY BUBBLE BATH

Part	INCI/Ingredient	Trade Name	% w/w
A	Aqua		44.30
B	Xanthan Gum		0.70
	Cocamidopropyl Betaine, 38%		15.00
	Chamomilla Recutita Extract		2.00
C	Disodium Cocoyl Glutamate, 38%	PERLASTAN SCG 38 CE (Schill+Seilacher GmbH)	23.00
	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	15.00
D	Citric Acid		qs to pH
E	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70°C
- Add Part **B** while stirring
- Maintain temperature and add Part **C** in listed order
- Cool down to room temperature while stirring
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: light yellowish, clear, viscous liquid
pH-value: 5.5

NATURAL BABY CLEANSING GEL

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		52.00
A	Lauryl Glucoside, 50 – 53%		25.00
	Disodium Cocoyl Glutamate, 50%	PERLASTAN SCG 50 ZPF (Schill+Seilacher GmbH)	7.50
B	Cocamidopropyl Betaine, 38%		10.00
	Panthenol		2.50
	Chamomilla Recutita Extract		2.50
C	Hydrolyzed Wheat Protein	Hydrolyzed Wheat Protein (Givaudan SA)	0.50
D	Citric Acid		qs to pH
E	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Add Part **B** to Part **A** and mix until formulation appears homogeneous
- Add Part **C** while stirring and homogenize
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: light yellowish, clear gel
pH-value: 5.5
Viscosity: 2000 – 3000 mPa*s
(Brookfield, Sp.5, 5 rpm, RT)

CLAIMS

PERLASTAN SCG 50 ZPF Mild surfactant with COSMOS, ECOCERT, NATRUE, ECO-Label, Nordic Swan

PANTHENOL Emollient with regenerative and metabolic effects

CHAMOMILLA RECUTITA EXTRACT Anti-inflammatory and soothing agent

HYDROLYZED WHEAT PROTEIN Provides balanced skin moisture, gives soft & silky touch



ALL GREEN THICKENED SHAMPOO

Part	INCI/Ingredient	Trade Name	% w/w
A	Aqua		49.50
	Lauryl Glucoside, Disodium Cocoyl Glutamate, 42%	Rheo2Green1 (Schill+Seilacher GmbH)	45.00*
	Panthenol, 75%		2.50
B	Chamomilla Recutita Extract		2.50
	Hydrolyzed Wheat Protein		0.50
C	Citric Acid		qs to pH
D	Preservatives*, Fragrances, etc.		qs

*Preservative might be based on potassium sorbate and sodium benzoate.

MANUFACTURING PROCEDURE

- Mix Part **A**
- Add Part **B** to Part **A** in listed order and mix until formulation appears homogeneous
- Adjust pH-value with Part **C**
- Add Part **D**

PROPERTY

Appearance: light yellowish, clear gel

pH-value: 4.8

Viscosity:

a)* 45.00% Part A: 4200 – 4500 mPa*s

b)* 37.50% Part A: 1650 – 2900 mPa*s
(Brookfield, Sp.5, 5 rpm, RT)

CLAIMS

Rheo2Green1

Mild surfactant system, with COSMOS, ECOCERT, NATRUE, ECO-Label and Nordic Swan

PANTHENOL

Emollient with regenerative and metabolic effects

CHAMOMILLA RECUTITA EXTRACT

Anti-inflammatory and soothing agent

HYDROLYZED WHEAT PROTEIN

Provides balanced skin moisture, gives soft & silky touch

2 IN 1 CONDITIONER SHAMPOO

Part	INCI/Ingredient	Trade Name	% w/w
A	Aqua		60.50
	Coco Glucoside, 51 – 53%		10.00
A	Sodium Lauroyl Glutamate, 38%	PERLASTAN SLG 38 (Schill+Seilacher GmbH)	17.50
	Amodimethicone, Cetrimonium Chloride, Trideceth-12	SIL-O-SAN 8651 C (Schill+Seilacher GmbH)	2.00
B	Acrylates Copolymer, 30%		10.00
C	Sodium Hydroxide		qs to pH
D	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Add Part **B** while stirring and homogenize
- Adjust pH-value with Part **C**
- Add Part **D**

PROPERTY

Appearance: turbid, white, viscous liquid

pH-value: 6.5 – 7.0



REPAIR & GLOSSY HAIR SHAMPOO

Part	INCI/Ingredient	Trade Name	% w/w
A	Aqua		62.40
B	Xanthan Gum		1.00
	Coco Glucoside, 51 – 53%		10.00
	Disodium Cocoyl Glutamate, 38%	PERLASTAN SCG 38 CE (Schill+Seilacher GmbH)	17.50
	Glycerin		5.00
C	Glyceryl Oleate, 40%		0.60
	Lactic Acid (and) Citric Acid (and) Malic Acid (and) Water (and) Saccharum Officinarum (sugar cane) Extract (and) Citrus Limon (lemon) Peel Extract	Glossyliance (Givaudan SA)	3.00
	Plukenetia Volubilis Seed Oil	Trichomega (Cobiosa)	0.50
D	Sodium Hydroxide		qs to pH
E	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70°C
- Maintain temperature and add Part **B** while stirring
- Mix until preparation appears homogeneous
- Cool down to room temperature while stirring
- Add Part **C** in listed order
- Adjust pH-value with Part **D** while stirring
- Add Part **E**

PROPERTY

Appearance: turbid, viscous liquid
pH-value: 5.5

CLAIMS

PERLASTAN SCG 38 CE	Mild surfactant with COSMOS, ECOCERT, NATRUE, ECO-Label and Nordic Swan
GLOSSYLIANCE	Ingredient for 'ultimate' hair shine
TRICHOMEGA	Ingredient for split ends and broken hairs

HAIR FRESHENER “SOOTHING POLYFIX”

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		53.00
A	Alcohol		40.00
	Panthenol		2.00
	Propylene Glycol		2.00
B	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	3.00
C	Citric Acid		qs to pH
D	Preservatives, Fragrances, etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Add Part **B** while stirring and homogenize
- Adjust pH-value with Part **C**
- Add Part **D**

PROPERTY

Appearance: clear liquid
pH-value: 8.0

CLAIMS

POLYFIX ZRC 25 GP	Eco-friendly odour absorber concentrate
PANTHENOL	Emollient with regenerative and metabolic effects
PROPYLENE GLYCOL	Emollient for good skin condition

TOOTHPASTE “FRESH BREATH”

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		52.95
A	Glycerin		7.50
	Sorbitol		14.20
B	Carboxymethyl Cellulose		0.45
	GLDA, 47 %		0.10
	Sodium Saccharin		0.50
C	Sodium Lauroyl Sarcosinate, 30 %	PERLASTAN L-30 (Schill+Seilacher GmbH)	1.50
	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	1.00
D	Aqua		4.80
	Titanium Dioxide		1.00
E	Hydrated Silica, abrasive		5.50
	Hydrated Silica, thickener		10.50
F	Citric Acid		qs to pH
G	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order and heat up to 70 °C
- Maintain temperature and add Part **B** while stirring
- Mix until preparation appears homogeneous
- Cool down to room temperature while stirring
- Add Part **C** in listed order
- Mix Part **D** until homogeneous and add while stirring
- Add Part **E**
- Adjust pH-value with Part **F**
- Add Part **G**

PROPERTY

Appearance: white cream
pH-value: 6.8 – 7.3

MOUTH WASH “MINTY POLYFIX” – ALCOHOL FREE*

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		88.50
	Menthol		0.08
A	Potassium Sorbate		0.20
	Sodium Benzoate		0.20
	Sodium Saccharin		0.02
	Sorbitol		10.00
B	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	0.50
	Sodium Lauroyl Sarcosinate, 30 %	PERLASTAN L-30 (Schill+Seilacher GmbH)	0.50
C	Citric Acid		qs to pH
D	Fragrances etc.		qs

*An alcohol-based alternative can be formulated by addition of 10% Ethanol in Part A.

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Add Part **B** while stirring and homogenize
- Adjust pH-value with Part **C**
- Add Part **D**

PROPERTY

Appearance: clear liquid
pH-value: 6.5

DEO ROLL-ON “FAST DRYING”

Part	INCI/Ingredient	Trade Name	% w/w
A	Aqua		70.80
B	Xanthan Gum		0.40
C	Alcohol		20.00
	Propylene Glycol		1.00
	Ethylhexylglycerin		0.30
D	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	5.00
	Triethyl Citrate		2.50
E	Citric Acid		qs to pH

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70°C
- Maintain temperature and add Part **B** while stirring
- Mix until preparation appears homogeneous
- Cool down to room temperature while stirring
- Add Part **C**
- Add Part **D** in listed order
- Adjust pH-value with Part **E**

PROPERTY

Appearance: colourless, clear, viscous liquid
pH-value: 6.8 – 8.0

CLAIMS

ETHYLHEXYLGLYCERIN

Mild preservative

POLYFIX ZRC 25 GP

Eco-friendly odour absorber concentrate

TRIETHYL CITRATE

Enzyme blocker

DEO ROLL-ON “PERFECT POLYFIX”

Part	INCI/Ingredient	Trade Name	% w/w
A	Aqua		90.70
B	Cellulose Gum (and) Carrageenan (and) Ceratonia Siliqua Gum (and) Sucrose	Sucraclear HC-31 (ALFA Chemicals Ltd.)	1.00
	Propanediol		1.00
C	Lactococcus Lactis Lysate (and) Aqua (and) Propanediol	Probiophyte Fresh (Greentech GmbH)	2.00
	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	5.00
	Fragrances	Perfect Day (Aromatic Flavours & Fragrances)	0.30
D	Citric Acid		qs to pH

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70°C
- Maintain temperature and add Part **B** while stirring
- Mix until preparation appears homogeneous
- Cool down to room temperature while stirring
- Add Part **C** in listed order
- Adjust pH-value with Part **D**

PROPERTY

Appearance: light yellowish, clear, viscous liquid
pH-value: 7.8 – 8.3

CLAIMS

SUCRACLEAR HC-31

COSMOS thickening agent

PROPANEDIOL

COSMOS moisturizing agent

PROBIOPHYTE FRESH

Strong anti-odour agent, targets specific bacteria responsible for axillary odour while maintaining skin microbiome homeostasis

POLYFIX ZRC 25 GP

Eco-friendly odour absorber concentrate

DEODORANT STICK “ORANGE POLYFIX”

Part	INCI/Ingredient	Trade Name	% w/w
	Propanediol		54.00
A	Glycerin		20.50
	Aqua		3.05
B	Sodium Hydroxide, 10%		9.40
	Stearic Acid		3.15
	Palmitic Acid		3.15
C	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	5.00
	Ethylhexylglycerin		0.75
	Bambusa Arundinacea	Greensil (Greentech GmbH)	1.00
D	Fragrances	Peau D'Ange (Symrise)	qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 90 – 95°C
- Add Part **B** while stirring
- Maintain temperature and add Part **C** in listed order
- Add Part **D** and mix until preparation appears homogeneous
- Fill the preparation into deo stick tubes at 90 – 95°C

PROPERTY

Appearance: light yellowish, creamy wax
pH-value: 8.0 – 9.5

DEODORANT PUMP SPRAY

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		55.50
	Alcohol		32.00
	Propylene Glycol		4.00
A	Polysorbat 20		6.00
	Panthenol		0.50
	Zinc Ricinoleate, Laureth-3, Tetrahydroxypropyl Ethylenediamine, Propylene Glycol	POLYFIX ZRC 50 TB (Schill+Seilacher GmbH)	2.00
B	Citric Acid		qs to pH

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Adjust pH-value with Part **B**

PROPERTY

Appearance: colourless, clear liquid
pH-value: 5.5



ANTIPERSPIRANT SPRAY

Part	INCI/Ingredient	Trade Name	% w/w
	Alcohol		40.70
	Laureth-3		3.00
A	Tetrahydroxypropyl Ethylenediamine		0.30
	Zinc Ricinoleate, Laureth-3, Tetrahydroxypropyl Ethylenediamine, Propylene Glycol	POLYFIX ZRC 50 TB (Schill+Seilacher GmbH)	1.50
	Aqua		40.50
B	Aluminium Chlorohydrate		12.00
	Propylene Glycol		2.00
C	Lactic Acid		qs to pH

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Mix Part **B** in listed order
- Add Part **B** to Part **A** while stirring
- Adjust pH-value with Part **C**

PROPERTY

Appearance: colourless, clear liquid
pH-value: 4.0 – 4.5

DEODORANT FOOT GEL “COOL POLYFIX”

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		50.90
A	Alcohol		32.35
B	Carboxymethyl Cellulose		1.50
	Zinc Ricinoleate, Laureth-3, Tetrahydroxypropyl Ethylenediamine, Propylene Glycol	POLYFIX ZRC 50 TB (Schill+Seilacher GmbH)	2.20
	Laureth-3		4.40
C	Propylene Glycol		2.00
	Menthol		0.50
	Panthenol		2.00
	Tetrahydroxypropyl Ethylenediamine		3.75
D	Citric Acid		qs to pH
E	Preservatives, Fragrances, etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70°C
- Maintain temperature and add Part **B** while stirring
- Mix until preparation appears homogeneous
- Cool down to room temperature
- Add Part **C** in listed order while stirring
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: colourless, clear, viscous liquid
pH-value: 8.0 – 9.0

HAND SANITIZER “FRESH & COOL”

Part	INCI/Ingredient	Trade Name	% w/w
A	Alcohol		60.00
	Aqua		37.80
	Propanediol		1.00
B	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	0.60
	PEG-12 Dimethicone	SIL-O-SAN 8611C (Schill+Seilacher GmbH)	0.60
C	Citric Acid		qs to pH
D	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70°C
- Maintain temperature and add Part **B** while stirring
- Mix until preparation appears homogenous
- Cool down to room temperature
- Add Part **C** in listed order while stirring
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: colourless, clear liquid
pH-value: 5.5

WET WIPE SOLUTION

Part	INCI/Ingredient	Trade Name	% w/w
A	Aqua		93.25
	Propylene Glycol		1.00
B	Xanthan Gum		0.25
	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	2.00
C	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	1.00
	Cocamidopropyl Betaine, 38%		2.00
	GLDA, 47%		0.50
D	Citric Acid		qs to pH
E	Fragrances		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70°C
- Add Part **B** while stirring
- Maintain temperature and add Part **C** in listed order
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: clear, colourless liquid
pH-value: 6.0 – 7.0



INTIMATE WASH GEL

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		62.85
A	GLDA, 47%		0.05
	Allantoin		0.10
	Lauryl Glucoside, Disodium Cocoyl Glutamate, 42%	Rheo2Green1 (Schill+Seilacher GmbH)	30.00
B	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	2.00
	Panthenol		1.00
	Aloe Barbadensis Miller		1.00
	Lauryl Glucoside, Stearyl Citrate		3.00
C	Lactic Acid		qs to pH
D	Preservatives, Fragrances, etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Mix Part **B** in listed order
- Add Part **B** to Part **A** while stirring
- Adjust pH-value with Part **C**
- Add Part **D**

PROPERTY

Appearance: pearl white gel
 pH-value: 4.9 – 5.2
 Viscosity at pH 5.2: 1300 – 1500 mPa*s
 (Brookfield, Sp. 5, 5 rpm, RT)

DEPILATORY CREAM

Part	INCI/Ingredient	Trade Name	% w/w
	Aqua		46.20
	Glycerin		2.00
	GLDA, 47%		0.50
A	PEG-40 Hydrogenated Castor Oil		1.20
	Urea		4.40
	Sodium Lauroyl Glutamate	PERLASTAN SL (Schill+Seilacher GmbH)	2.00
B	Cetearyl Alcohol		17.00
	Cetyl Alcohol		3.00
	Aqua		10.00
	Potassium Hydroxide, 50%		5.00
C	Calcium Thioglycolate		5.50
	Zinc Ricinoleate, Laureth-3, Tetrahydroxypropyl Ethylenediamine, Propylene Glycol	POLYFIX ZRC 50 TB (Schill+Seilacher GmbH)	3.00
	Ethylhexylglycerin		0.20

MANUFACTURING PROCEDURE

- Heat Part **A** up to 80°C
- Heat Part **B** up to 80°C
- Add Part **B** to Part **A** while stirring and maintain temperature
- Cool down to 40°C and add Part **C** in listed order
- Mix until formulation is homogeneous

PROPERTY

Appearance: white cream
 pH-value: 12.0

CLAIMS

PERLASTAN SL

Mild surfactant with COSMOS, ECOCERT, NATRUE, ECO-Label and Nordic Swan

POLYFIX ZRC 50 TB

Odour absorber

DOG SHAMPOO – ODOUR NEUTRALIZER

Part	INCI/Ingredient	Trade Name	% w/w
A	Aqua		64.30
B	Carboxymethyl Cellulose		1.20
C	Disodium Cocoyl Glutamate, 35%	PERLASTAN SCG 35 (Schill+Seilacher GmbH)	25.00
	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	5.00
	Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	2.00
	Aloe Barbadensis Miller		0.50
D	Citric Acid		qs to pH
E	Preservatives, Fragrances, etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70°C
- Maintain temperature and add Part **B** while stirring
- Mix until preparation appears homogeneous
- Cool down to room temperature while stirring
- Add Part **C** in listed order
- Adjust pH-value with Part **D**
- Add Part **E**

PROPERTY

Appearance: colourless, clear, viscous liquid
pH-value: 6.5

CLAIMS

PERLASTAN SCG 35	Mild surfactant with rich fine-pored foam
PERLASTAN L-30	Mild surfactant with high foaming ability
POLYFIX ZRC 25 GP	Eco-friendly odour absorber concentrate
ALOE BARBADENSIS MILLER	Ingredient for skin care

COMPATIBILITY OF Rheo2Green1 WITH TYPICAL RINSE-OFF INGREDIENTS

in terms of homogeneity and viscosity

Thickened Solution of 30% Rheo2Green1 (10% active) + ingredients	weight % (active)								
	0.1	0.2	0.5	1.0	2.0	5.0	10	20	
SORBITOL					++	++	+		viscosity improvement
GLYCERIN					++	+	●		
GLYCERIN MONOOLEATE		++	++	●	--				
POTASSIUM SORBATE			++	+	●				
SODIUM BENZOATE			++	+	●				
GLDA			+	+	+				
ETHYLHEXYLGLYCERIN	+	+	+	●					
PANTHENOL				+	+	+	●		
HYDROLYZED WHEAT PROTEIN		+	+	-	--				
OLEIC ACID				--	--	---			
RICINOLEIC ACID				--	--	---			
ETHANOL						-	--	---	viscosity drop and/or precipitation
XANTHAN GUM	-	-	--						
CARRAGEENAN GUM	-	-	--						
CARBOMER	-	-	--						

viscosity improvement

minor influence

viscosity drop and/or precipitation

→ **BOEBLINGEN**

SPECIALITY CHEMICALS FOR:

FIBRES
TEXTILES
LEATHER
PAPER
COSMETICS
FINE CHEMICALS

DIN EN ISO 9001:2015
DIN EN ISO 14001:2015
DIN EN ISO 500001:2011
RSPO CERTIFICATION MASS BALANCE

→ **HAMBURG**

SPECIALITY CHEMICALS FOR:

RUBBER ADDITIVES
ANTIFOAMS
EPOXY PREPOLYMERS
AND FLAME RETARDANTS
LATEX ADDITIVES
SILICONES
RELEASE AGENTS

DIN EN ISO 9001:2015
DIN EN ISO 14001:2015
DIN EN ISO 500001:2011

→ **PIRNA**

SPECIALITY CHEMICALS FOR:

SILICONES
PU INDUSTRY
PAPER
TEXTILES
COSMETICS
FIBRES
LEATHER

DIN EN ISO 9001:2015
(ONLY FOR BOEBLINGEN PRODUCTS)

→ **HUDSON / OHIO / USA**

PRODUCER OF:

NANOFIBRE MATRICES

DIN EN ISO 9001:2015
DIN EN ISO 13485:2003

→ **STOW / OHIO / USA**

SPECIALITY CHEMICALS FOR:

PLASTICS
WOOD COMPOSITES
RUBBER
LEATHER

DIN EN ISO 9001:2008

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Disclaimer:

The mentioned attributes and application proposals are only non-binding application possibilities and application proposals for our products. Our advice and recommendations whether verbal, in writing or by way of tests do not excuse the customer from his or her own examination regarding the applicability for the intended procedures and purposes. The mentioned attributes and application proposals are no assurance for a certain further processing. Any assurances must be agreed upon explicitly and in writing between the customer and us.

We also advice you, that any further processing and the distribution of the further processed products is part of the customers sole scope of responsibilities as the producer of the new product.

Any Questions?

Our service team will be pleased to answer any questions and assist you with advice and information. We can also provide you with contact data of our local offices, distributors and agencies. Data sheets and samples of our products are available upon request.

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