



Schill+Seilacher
struktol®

POLYFIX **ODOUR ABSORBERS**

FORMULATION GUIDE

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DEO ROLL-ON „FAST DRYING“

Part	INCI	Trade Name	% w/w
A	Aqua		69.80
	Sodium Bicarbonate		1.00
B	Xanthan Gum	Verdessence Xanthan (BASF)	0.40
C	Alcohol		20.00
	Propylene Glycol		1.00
	Ethylhexylglycerin		0.30
D	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	Polyfix ZRC 25 MB (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 formulation appears homogeneous
- Cool down to room temperature while stirring
- Add Part **C**
- Add Part **D** in listed order
- Adjust pH-value with Part **E**

PROPERTIES

Appearance: colourless, clear, viscous liquid
pH-value: 7.8 - 8.3

DEODORANT STICK „ORANGE POLYFIX“

Part	INCI	Trade Name	% w/w
A	Propanediol		54.00
	Glycerin		20.50
	Aqua		3.05
B	Sodium Hydroxide, 10%		9.40
	Stearic Acid		3.15
	Palmitic Acid		3.15
C	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	Polyfix ZRC 25 MB (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°

PROPERTY

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



DEODORANT PUMP SPRAY „NATURALLY“ TRANSPARENT

Part	INCI	Trade Name	% w/w
	Aqua		66.50
	Aqua, Sodium Lauroyl Glutamate, 25%	Perlastan SL MB (Schill + Seilacher GmbH)	0.50
A	Propylene Glycol, Zinc Ricinoleate, Aqua, Arginine, Citric Acid	Polyfix ZRC 30 PAC (Schill + Seilacher GmbH)	4.00
	Polyglyceryl-4 Caprate		7.00
	Triethyl Citrate		2.00
B	Alcohol		20.00
C	Citric Acid		qs to pH
D	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

- Appearance: clear liquid
- pH-value: 5.2 - 5.5

DEO ROLL-ON „MATCH PAIR2PAC“

Part	INCI	Trade Name	% w/w
A	Aqua		67.80
	Glycerin		5.00
	Triethyl Citrate		5.00
	Propylene Glycol, Zinc Ricinoleate, Aqua, Arginine, Citric Acid	Polyfix ZRC 30 PAC (Schill + Seilacher GmbH)	4.00
B	Xanthan Gum		0.20
	Helianthus Annuus Seed Oil		5.00
C	Potassium Cetyl Phosphate, Behenyl Alcohol	Pair2Phase1 MB (Schill + Seilacher GmbH)	3.00
D	Alcohol		10.00
E	Lactic Acid		qs to pH
F	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70 - 75°C
- Maintain temperature and add Part **B** while stirring
- Heat Part **C** up to 70 - 75°C
- Add Part **C** while stirring
- Cool down to room temperature while stirring
- Add Part **D**
- Adjust pH-value with Part **E** and mix until formulation appears homogeneous
- Add Part **F**

PROPERTY

- Appearance: off-white emulsion
- pH-value: 5.3 - 5.5



DEODORANT PUMP SPRAY

Part	INCI	Trade Name	% w/w
A	Aqua		55.50
	Polysorbate-20		6.00
	Propylene Glycol		4.00
	Alcohol		32.00
	Tetrahydroxypropyl Ethylenediamine		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
C	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

- Appearance: clear liquid
- pH-value: 5.5

DEODORANT BALM

Part	INCI	Trade Name	% w/w
A	Aqua		65.80
B	Xanthan Gum		1.00
C	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	Polyfix ZRC 25 MB (Schill + Seilacher GmbH)	5.00
	Triethyl Citrate		1.20
	Glycerin		2.00
	Orbignya Oleifera Seed Oil	Babassu Oil refined (Gustav Heess)	18.00
D	Potassium Cetyl Phosphate, Oryza Sativa Bran Cera	Pair2Phase2 MB (Schill + Seilacher GmbH)	5.00
	Cetearyl Alcohol		2.00
E	Citric Acid		qs to pH
F	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 75 - 80°C
- Add Part **B** and mix until formulation appears homogeneous
- Maintain temperature and add Part **C** in listed order
- Heat Part **D** to 75 - 80°C
- Add Part **D** while stirring
- Homogenize and cool down to 40°C while stirring
- Adjust pH-value with Part **E**
- Add Part **F**

PROPERTY

- Appearance: white lotion
- pH-value: 5.5 - 6.0

DEODORANT CREAM „PLEASANTLY MELTING“

Part	INCI	Trade Name	% w/w
A	Cocos Nucifera Oil		35.00
	Butyrospermum Parkii (Shea) Butter	Shea Butter (Gustav Heess)	20.00
	Sodium Bicarbonate		10.00
	Zea Mays (Corn) Starch		8.80
	Behenyl Alcohol *)		13.00
	Potassium Cetyl Phosphate, Behenyl Alcohol	Pair2Phase1 MB (Schill + Seilacher GmbH)	5.00
	Macadamia Ternifolia Seed Oil		5.00
	Zinc Ricinoleate, Laureth-3, Tetrahydroxypropyl Ethylenediamine, Propylene Glycol	Polyfix ZRC 50 TB (Schill + Seilacher GmbH)	3.00
B	Tocopherol		0.20
	Preservatives, Fragrances etc.		qs

*) Alternative for Behenyl Alcohol: Cetearyl Alcohol

MANUFACTURING PROCEDURE

- Heat Part **A** up to 75 - 80°C
- Homogenize and cool down to 40°C while stirring
- Add Part **B**

PROPERTY

- Appearance: off-white cream
- pH-value: 8.0 - 9.0

NATURAL ODOUR NEUTRALIZING HAND SOAP

Part	INCI	Trade Name	% w/w
A	Aqua		68.00
B	Xanthan Gum	Verdessence Xanthan (BASF)	1.00
C	Aqua, Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate, 38%	Perlstan SCG 38 DKPF (Schill + Seilacher GmbH)	13.00
	Coco Glucoside, 50%	Plantacare 818 UP (BASF)	10.00
	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	Polyfix ZRC 25 MB (Schill + Seilacher GmbH)	5.00
	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 formulation 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: light yellowish, clear gel
- pH-value: 5.5



HAND SANITIZER „FRESH & COOL“

Part	INCI	Trade Name	% w/w
A	Alcohol		60.60
	Aqua		37.80
B	Propanediol		1.00
	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	Polyfix ZRC 25 MB (Schill + Seilacher GmbH)	0.60
C	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** and Part **B** until formulation appears homogeneous
- Add Part **C**

PROPERTY

- Appearance: clear liquid
- pH-value: 5.5



MOUTH WASH „MINTY POLYFIX“ – ALCOHOL FREE

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

MANUFACTURING PROCEDURE

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

PROPERTY

- Appearance: clear liquid
- pH-value: 6.0

TOOTHPASTE „FRESH BREATH“

Part	INCI	Trade Name	% w/w
A	Aqua		53.00
	Glycerin		7.50
	Sorbitol		14.20
B	Carboxymethyl Cellulose		0.40
	GLDA, 47%		0.10
	Sodium Saccharin		0.50
C	Aqua, Sodium Lauroyl Sarcosinate, 30%	Perlastan L-30 MB (Schill + Seilacher GmbH)	1.50
	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	Polyfix ZRC 25 MB (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 formulation 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

HAIR REFRESHENER „ODOUR FREE“

Part	INCI	Trade Name	% w/w
A	Aqua		65.50
	Propylene Glycol		4.00
	Aqua, Disodium Cocoyl Glutamate, Propylene Glycol, Sodium Chloride, 35%	Perlastan SCG 35 MB (Schill + Seilacher GmbH)	0.50
	Polyglyceryl-4 Caprate		7.00
	Propylene Glycol, Zinc Ricinoleate, Aqua, Arginine, Citric Acid	Polyfix ZRC 30 PAC (Schill + Seilacher GmbH)	3.00
	Alcohol		20.00
B	Citric Acid		qs to pH
C	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** until formulation appears homogeneous
- Adjust pH-value with Part **B**
- Add Part **C**

PROPERTY

- Appearance: clear liquid
- pH-value: 5.3 - 5.5



ANTIPERSPIRANT SPRAY

Part	INCI	Trade Name	% w/w
A	Aqua		41.20
	Propylene Glycol		2.00
	Aluminium Chlorohydrate		12.00
B	Zinc Ricinoleate, Laureth-3, Tetrahydroxypropyl Ethylenediamine, Propylene Glycol	Polyfix ZRC 50 TB (Schill + Seilacher GmbH)	1.50
	Laureth-3		3.00
	Alcohol		40.00
	Tetrahydroxypropyl Ethylenediamine		0.30
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** and mix until formulation appears homogeneous
- Adjust pH-value with Part **C**
- Add Part **D**

PROPERTY

- Appearance: clear liquid
- pH-value: 4.0 - 4.2

PET CARE SHAMPOO - ODOUR NEUTRALIZER

Part	Ingredient	Trade Name	% w/w
A	Aqua		69.30
B	Xanthan Gum		1.20
	Aqua, Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate	Perlastan SC 25 NKW MB (Schill + Seilacher GmbH)	25.00
C	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	Polyfix ZRC 25 MB (Schill + Seilacher GmbH)	2.00
	Glycerin		2.00
	Aloe barbadensis Miller, 5%		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 formulation 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: 5.5



DOG SHAMPOO

Part	Ingredient	Trade Name	% w/w
A	Aqua		69.30
B	Xanthan Gum		1.20
C	Aqua, Disodium Cocoyl Glutamate, Propylene Glycol, Sodium Chloride, 35%	Perlastan SCG 35 MB (Schill + Seilacher GmbH)	20.00
	Aqua, Sodium Lauroyl Sarcosinate, 30%	Perlastan L-30 MB (Schill + Seilacher GmbH)	5.00
	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	Polyfix ZRC 25 MB (Schill + Seilacher GmbH)	2.00
	Glycerin		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 formulation 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: 6.0

SOFTENER WITH ODOUR CONTROL

Part	Ingredient	Trade Name	% w/w
A	Aqua		95.50
B	Carbomer		0.50
C	Water, Zinc Diricinoleate, Chelating Agent, Alcohol Ethoxylated	Polyfix ZRC 30 MT (Schill + Seilacher GmbH)	2.00
	Aminofluid Softener, 50%	Struksilon FB (Schill + Seilacher GmbH)	2.00
D	Citric Acid		qs to pH
E	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 50°C
- Maintain temperature and add Part **B** while stirring
- Mix until formulation 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: turbid, viscous liquid
- pH-value: 4.0 - 5.0

TOILET LIQUID RIM BLOCK

Part	Ingredient	Trade Name	% w/w
A	Aqua		75.00
B	Carbomer		2.00
	Aqua, Sodium Lauroyl Sarcosinate, 30%	Perlasthan L-30 (Schill + Seilacher GmbH)	5.00
C	Water, Zinc Diricinoleate, Chelating Agent, Alcohol Ethoxylated	Polyfix ZRC 30 MT (Schill + Seilacher GmbH)	2.00
	Sodium Laureth Sulfate, 30%		15.00
	MGDA, 78%		1.00
D	Sodium Hydroxide		qs to pH
E	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 50°C
- Maintain temperature and add Part **B** while stirring
- Mix until formulation 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 gel
- pH-value: 8.0 - 9.0



HARD SURFACE CLEANER DISINFECTION DETERGENT

Part	Ingredient	Trade Name	% w/w
A	Aqua		52.00
	GLDA, 47%		1.00
	Isopropyl Alcohol		32.00
	Aqua, Sodium Lauroyl Sarcosinate, 30%	Perlastan L-30 MB (Schill + Seilacher GmbH)	2.00
	Alcohol Alkoxylate		6.00
	Hydroxyethyl Laurdimonium Chloride		5.00
	Zinc Ricinoleate, Laureth-3, Tetrahydroxypropyl Ethylenediamine, Propylene Glycol	Polyfix ZRC 50 TB (Schill + Seilacher GmbH)	2.00
	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order until formulation appears homogeneous
- Add Part **B**

PROPERTY

- Appearance: clear liquid
- pH-value: 9.0 - 10.0



FLOOR CLEANER „ODOUR ABSORBING“

Part	Ingredient	Trade Name	% w/w
A	Aqua		92.50
	Propylene Glycol		0.50
	GLDA, 47%		2.00
B	Aqua, Sodium Lauroyl Sarcosinate, 30%	Perlastan L-30 MB (Schill + Seilacher GmbH)	3.00
	Water, Zinc Diricinoleate, Chelating Agent, Alcohol Ethoxylated	Polyfix ZRC 30 MT (Schill + Seilacher GmbH)	2.00
C	Citric Acid		qs to pH
D	Preservatives, Fragrances etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

- Appearance: colourless, clear liquid
- pH-value: 6.5 - 7.5



REFRIGERATOR CLEANER „ODOUR ABSORBING“

Part	Ingredient	Trade Name	% w/w
A	Aqua		80.00
	Alcohol or Isopropyl Alcohol		10.00
	Aqua, Zinc Diricinoleate, Chelating Agent, Alcohol Ethoxylated	Polyfix ZRC 30 MT (Schill + Seilacher GmbH)	5.00
B	Water, Sodium Lauroyl Sarcosinate, 30%	Perlastan L-30 MB (Schill + Seilacher GmbH)	3.00
	Sodium Citrate		0.50
	GLDA, 47%		0.50
	Benzalkonium Chloride		1.00
C	Citric Acid		qs to pH
D	Preservatives, Fragrances, Colour 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: 9.0 - 10.0



LAUNDRY DETERGENT „UNIVERSAL“

Part	Ingredient	Trade Name	% w/w
A	Aqua		84.90
B	Carboxymethyl Cellulose		0.50
	Aqua, Sodium Lauroyl Sarcosinate, 30%	Perlasthan L-30 (Schill + Seilacher GmbH)	5.00
C	Water, Zinc Diricinoleate, Chelating Agent, Alcohol Ethoxylated	Polyfix ZRC 30 MT (Schill + Seilacher GmbH)	2.50
	Alcohol Alkoxylate		4.00
	GLDA, 47%		3.00
	Defoamer		0.10
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 formulation 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: turbid, viscous liquid
- pH-value: 8.0 - 9.5



SHOE REFRESHENER SPRAY

Part	Ingredient	Trade Name	% w/w
	Aqua		95.90
A	Water, Zinc Diricinoleate, Chelating Agent, Alcohol Ethoxylated	Polyfix ZRC 30 MT (Schill + Seilacher GmbH)	3.00
	Alcohol Ethoxylate		1.00
	Preservatives		0.10
B	Citric Acid		qs to pH
C	Fragrances, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

- Appearance: clear, colourless liquid
- pH-value: 6.5 - 7.5



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