



Schill+Seilacher



POLYFIX ODOUR ABSORBERS

FORMULATION GUIDE

PERSONAL CARE

DEO ROLL-ON „FAST DRYING“.....	2
DEODORANT STICK „ORANGE POLYFIX“.....	3
DEODORANT PUMP SPRAY „NATURALLY“ TRANSPARENT.....	4
DEO ROLL-ON „MATCH PAIR2PAC“.....	5
DEODORANT PUMP SPRAY.....	6
DEODORANT BALM.....	7
DEODORANT CREAM „PLEASANTLY MELTING“.....	8
NATURAL ODOUR NEUTRALIZING HAND SOAP.....	9
HAND SANITIZER „FRESH & COOL“.....	10
MOUTH WASH „MINTY POLYFIX“ – ALCOHOL FREE.....	11
TOOTHPASTE „FRESH BREATH“.....	12
HAIR REFRESHENER „ODOUR FREE“.....	13
ANTIPERSPIRANT SPRAY.....	14

HOUSEHOLD

PET CARE SHAMPOO - ODOUR NEUTRALIZER.....	15
DOG SHAMPOO.....	16
SOFTENER WITH ODOUR CONTROL.....	17
TOILET LIQUID RIM BLOCK.....	18
HARD SURFACE CLEANER DISINFECTION DETERGENT.....	19
FLOOR CLEANER „ODOUR ABSORBING“.....	20
REFRIGERATOR CLEANER „ODOUR ABSORBING“.....	21
LAUNDRY DETERGENT „UNIVERSAL“.....	22
SHOE REFRESHENER SPRAY.....	23

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
	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
	Aqua		55.50
	Polysorbate-20		6.00
	Propylene Glycol		4.00
A	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
	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
A	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
	Aqua, Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate, 38%	Perlastan SCG 38 DKPF (Schill+Seilacher GmbH)	13.00
	Coco Glucoside, 50%	Plantacare 818 UP (BASF)	10.00
C	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

PROPERTIES

- 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%	Perlasthan 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
	Aqua		65.50
	Propylene Glycol		4.00
A	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
	Aqua		41.20
A	Propylene Glycol		2.00
	Aluminium Chlorohydrate		12.00
	Zinc Ricinoleate, Laureth-3, Tetrahydroxypropyl Ethylenediamine, Propylene Glycol	Polyfix ZRC 50 TB (Schill+Seilacher GmbH)	1.50
B	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
	Aqua		52.00
	GLDA, 47%		1.00
	Isopropyl Alcohol		32.00
A	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
B	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
	Aqua		92.50
A	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
B	Aqua, Zinc Diricinoleate, Chelating Agent, Alcohol Ethoxylated	Polyfix ZRC 30 MT (Schill+Seilacher GmbH)	5.00
	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%	Perlastan 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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