

HOUSEHOLD AND I&I FORMULATION GUIDE





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LAUNDRY DETERGENT “UNIVERSAL”

Part	Active Ingredient	Trade Name	% w/w
A	Water		83.90
B	Carboxymethyl Cellulose		0.50
C	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	3.00
	Alcohol Alkoxylate		3.50
	Coconut Fatty Acid		2.50
	Zinc Ricinoleate	POLYFIX ZRC 30 MT (Schill+Seilacher GmbH)	2.50
	GLDA, 47%		3.00
	Defoamer		0.10
D	Sodium Hydroxide, 10%		qs to pH
E	Enzymes, Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 50°C
- Maintain temperature and add Part **B** while stirring
- Homogenize
- 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: 8.0 – 9.5



LAUNDRY DETERGENT FOR HAND WASH

Part	Active Ingredient	Trade Name	% w/w
A	Water		81.50
	Acrylates Copolymer, 30%		5.00
	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	3.00
	Disodium Cocoyl Glutamate, 50%	PERLASTAN SCG 50 (Schill+Seilacher GmbH)	2.50
B	Alcohol Alkoxylate		3.50
	Glycerin		2.00
	Optical Brightener		0.50
	GLDA, 47%		2.00
C	Sodium Hydroxide, 10%		qs to pH
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A**
- Add Part **B** and mix until formulation is homogeneous
- Adjust pH-value with Part **C** while stirring
- Add Part **D**

PROPERTY

Appearance: white, turbid, viscous liquid
pH-value: 8.0 – 9.5



SOFTENER WITH ODOUR CONTROL

Part	Active Ingredient	Trade Name	% w/w
A	Water		95.50
	Carbomer		0.50
B	Zinc Ricinoleate	POLYFIX ZRC 30 MT (Schill+Seilacher GmbH)	2.00
	Amino Functional Silicone Polymer, 50%	STRUKSILON FB (Schill+Seilacher GmbH)	2.00
C	Citric Acid		qs to pH
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: turbid, viscous liquid

pH-value: 4.0 – 5.0



THICKENED CHLORINE BLEACH

Part	Active Ingredient	Trade Name	% w/w
	Water		58.70
A	Potassium Hydroxide, 45%		2.30
	GLDA, 47%		0.50
	Myristyldimethylamine Oxide, 25%		2.50
B	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	1.00
	Sodium Hypochlorite, 15%		35.00
C	Citric Acid		qs to pH
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: colourless, viscous liquid
pH-value: 11.5 – 12.0

ALL PURPOSE HARD SURFACE CLEANER

Part	Active Ingredient	Trade Name	% w/w
	Water		84.50
A	Propylene Glycol n-Butyl Ether		5.00
	Potassium Hydroxide, 45%		2.00
B	Sodium Cocoyl Sarcosinate, 30%	PERLASTAN C-30 (Schill + Seilacher GmbH)	3.50
	Alcohol Alkoxylate		3.00
	GLDA, 47%		2.00
C	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Add Part **B** in listed order to Part **A** and mix until formulation is clear
- Add Part **C**

PROPERTY

Appearance: colourless, clear liquid
pH-value: 11.5

SPRAY & WIPE HARD SURFACE CLEANER

Part	Active Ingredient	Trade Name	% w/w
	Water		88.80
A	Propylene Glycol n-Butyl Ether		3.00
	GLDA, 47%		0.50
B	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill + Seilacher GmbH)	1.50
	Isopropyl Alcohol		5.00
	Lauryldimethylamine Oxide, 30%		1.20
C	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Add Part **B** in listed order to Part **A** and mix until formulation is clear
- Add Part **C**

PROPERTY

Appearance: colourless, clear liquid
pH-value: 10.0 – 11.5

DISINFECTION DETERGENT

Part	Active Ingredient	Trade Name	% w/w
	Water		52.00
	GLDA, 47%		1.00
	Isopropyl Alcohol		32.00
A	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	2.00
	Alcohol Alkoxylate		6.00
	Hydroxyethyl Laurdimonium Chloride		5.00
	Zinc Ricinoleate	POLYFIX ZRC 50 TB (Schill+Seilacher GmbH)	2.00
B	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: clear liquid
pH-value: 10.0

FLOOR CLEANER

Part	Active Ingredient	Trade Name	% w/w
	Water		94.50
A	Propylene Glycol		0.50
	GLDA, 47%		2.00
B	Sodium Cocoyl Sarcosinate, 30%	PERLASTAN C-30 (Schill+Seilacher GmbH)	3.00
C	Citric Acid		qs to pH
D	Fragrances, Colour, 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** while stirring
- Add Part **D**

PROPERTY

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



GLASS CLEANER

Part	Active Ingredient	Trade Name	% w/w
	Water		89.95
	Isopropyl Alcohol		7.00
A	Sodium Myristoyl Sarcosinate, 30%	PERLASTAN M-30 (Schill + Seilacher GmbH)	0.75
	Propylene Glycol n-Butyl Ether		2.00
	Sodium Citrate		0.30
B	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: colourless, clear liquid
 pH-value: 7.0 – 8.0



REFRIGERATOR CLEANER “ODOUR ABSORBING”

Part	Active Ingredient	Trade Name	% w/w
A	Aqua		80.00
	Ethanol or Isopropyl Alcohol		10.00
	Zinc Ricinoleate	POLYFIX ZRC 30 MT (Schill+Seilacher GmbH)	5.00
B	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	3.00
	Sodium Citrate		0.50
	GLDA, 47%		0.50
	Benzalkonium Chloride		1.00
C	Citric Acid		qs to pH
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: colourless, clear liquid
pH-value: 9.0 – 10.0

ECO FRIENDLY TILE & BATH CLEANER

Part	Active Ingredient	Trade Name	% w/w
	Water		91.80
A	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	2.00
	Coco Glucoside, 52%		1.50
	Sodium Citrate		4.50
	GLDA, 47%		0.20
B	Citric Acid		qs to pH
C	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: colourless, clear liquid
pH-value: 4.5 – 5.0

VISCOUS WC CLEANER

Part	Active Ingredient	Trade Name	% w/w
A	Water		31.00
	Sodium Hydroxide, 50%		3.00
	Myristyldimethylamine Oxide, 25%		3.50
B	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill + Seilacher GmbH)	1.50
	Sodium Hypochlorite, 15%		60.00
	GLDA, 47%		1.00
C	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A**
- Add Part **B** in listed order to Part **A** and mix until formulation is clear
- Add Part **C**

PROPERTY

Appearance: colourless, clear gel
pH-value: 11.0 – 12.0

TOILET LIQUID RIM BLOCK

Part	Active Ingredient	Trade Name	% w/w
A	Water		75.00
B	Carbomer		2.00
C	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	5.00
	Sodium Laureth Sulfate, 30%		15.00
	Zinc Ricinoleate	POLYFIX ZRC 30 MT (Schill+Seilacher GmbH)	2.00
	MGDA, 78%		1.00
D	Sodium Hydroxide, 10%		qs to pH
E	Preservatives, Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 50°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, colourless gel
pH-value: 8.0 – 9.0



HAND DISHWASHING DETERGENT

Part	Active Ingredient	Trade Name	% w/w
A	Water		74.30
	MGDA, 78%		0.20
	Sodium Laureth Sulfate, 28%		15.00
	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill + Seilacher GmbH)	2.00
B	Cocamidopropyl Betaine, 38%		1.50
	Glycerin		2.00
	Sodium Chloride		5.00
C	Citric Acid		qs to pH
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: clear, colourless, viscous liquid
pH-value: 5.5 – 6.5



HOUSEHOLD DISHWASHER RINSE AID

Part	Active Ingredient	Trade Name	% w/w
	Water		68.60
A	Sodium Lauroyl Sarcosinate, 30 %	PERLASTAN L-30 (Schill+Seilacher GmbH)	2.00
B	Alcohol Ethoxylate		19.40
	Propylene Glycol n-Butyl Ether		10.00
C	Citric Acid		qs to pH
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

- Mix Part **A**
- Add Part **B** to Part **A** and mix until formulation appears clear
- Adjust pH-value with Part **C**
- Add Part **D**

PROPERTY

Appearance: colourless, clear liquid
pH-value: 2.5 – 3.5



OVEN CLEANER

Part	Active Ingredient	Trade Name	% w/w
	Water		77.00
A	Sodium Hydroxide, 10%		15.00
	GLDA, 47%		2.00
B	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	2.00
	Decyl Glucoside, 52%		2.00
C	Alcohol Ethoxylate		2.00
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: colourless, clear liquid
pH-value: 12.5 – 13.0

SPONGE IMPREGNATION

Part	Active Ingredient	Trade Name	% w/w
A	Water		52.90
B	Carbomer		1.50
	Allantoin		0.10
C	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	25.00
	Decyl Glucoside, 52%		5.00
	Cocamidopropyl Betaine, 38%		7.00
	Aloe Barbadensis Miller		0.50
D	Sodium Hydroxide, 10%		qs to pH
E	Preservatives, Fragrances, etc.		qs

MANUFACTURING PROCEDURE

- Add Part **B** while stirring to Part **A**
- Mix until formulation appears homogeneous (can be quicker and better dissolved at 30 – 40 °C)
- Add Part **C** in listed order
- Adjust pH-value with Part **D** (original pH: 5.3 – 5.5)
- Add Part **E**

PROPERTY

Appearance: turbid, colourless liquid
 pH-value: 6.5 – 7.5
 Viscosity: 550 – 620 mPa*s
 (Brookfield, Sp.3,5 rpm, RT)

SHOE REFRESHER SPRAY

Part	Active Ingredient	Trade Name	% w/w
	Water		95.90
A	Zinc Ricinoleate	POLYFIX ZRC 30 MT (Schill+Seilacher GmbH)	3.00
B	Alcohol Alkoxylate		1.00
	Preservative		0.10
C	Citric Acid		qs to pH
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

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



FABRIC REFRESHER “ODOUR NEUTRALIZER”

Part	Active Ingredient	Trade Name	% w/w
	Water		85.00
A	Zinc Ricinoleate	POLYFIX ZRC 25 GP (Schill+Seilacher GmbH)	5.00
B	Ethanol		10.00
C	Fragrances, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: colourless, clear liquid
pH-value: 9.5 – 10.5



HIGH-PRESSURE CAR CLEANER

Part	Active Ingredient	Trade Name	% w/w
	Water		73.00
A	MGDA, 78%		5.00
	GLDA, 47%		5.00
B	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	2.00
	Decyl Glucoside, 52%		3.00
	Alcohol Ethoxylate		2.00
	Triethanolamine		2.00
	Lauryldimethylamine Oxide, 30%		8.00
C	Citric Acid		qs to pH
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: colourless, clear liquid
pH-value: 11.0 – 11.5

MILD CAR WASH SHAMPOO

Part	Active Ingredient	Trade Name	% w/w
	Water		73.00
A	MGDA, 78%		5.00
	GLDA, 47%		5.00
B	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	5.00
	Sodium Laureth Sulfate, 30%		5.00
	Cocamidopropyl Betaine, 38%		2.00
C	Citric Acid		qs to pH
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: colourless, clear liquid
pH-value: 8.5 – 9.0

TOUCHLESS CAR WASH CONCENTRATE

Part	Active Ingredient	Trade Name	% w/w
	Water		74.00
A	MGDA, 78%		7.00
	GLDA, 47%		7.00
B	Sodium Lauroyl Sarcosinate, 30%	PERLASTAN L-30 (Schill+Seilacher GmbH)	2.00
	Decyl Glucoside, 52%		4.00
	Alcohol Ethoxylate		4.00
C	Sodium Hydroxide, 10%		2.00
D	Fragrances, Colour, etc.		qs

MANUFACTURING PROCEDURE

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

PROPERTY

Appearance: colourless, clear liquid
 pH-value: 11.5 – 12.5

→ **BOEBLINGEN**
SPECIALITY CHEMICALS FOR:

FIBRES
TEXTILES
LEATHER
PAPER
COSMETICS
FINE CHEMICALS

DIN EN ISO 9001:2015
DIN EN ISO 14001:2015
DIN EN ISO 50001:2011
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 50001:2011

→ **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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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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