

**TEXTILE
SOLUTIONS.**

**INDUSTRY
SOLUTIONS.**

**SCIENCE & SERVICE
SOLUTIONS.**

CHT
SMART CHEMISTRY
WITH CHARACTER.

RECOMMENDATION LIST H&M

Edition 24 May 2018

1. INTRODUCTION

2. PRETREATMENT

- 2.1 Enzymes
- 2.2 Scouring auxiliaries
- 2.3 Mercerising and causticising agent
- 2.4 Sequestrants
- 2.5 Wetting agents
- 2.6 Washing agents
- 2.7 Stabilizers
- 2.8 Optical brighteners
- 2.9 pH-buffers
- 2.10 Antifoams and deaerating agents
- 2.11 Other auxiliaries

3. DYEING AUXILIARIES

- 3.1 Levelling agents for CEL
- 3.2 Levelling agents & dyeing accelerators for synthetic fibres
- 3.3 Crease prevention agents
- 3.4 pH-regulators and buffers
- 3.5 Aftersoaping agents
- 3.6 Enzymes
- 3.7 Fastness improvement
- 3.8 Aftertreatment and reserving agents for PA
- 3.9 Auxiliaries for padding and continuous dyeing
- 3.10 Oxidizing and reducing agents
- 3.11 Peroxide destructors
- 3.12 Sequestrants and dispersing agents
- 3.13 Other dyeing auxiliaries
- 3.14 Cleaning agents for machines

4. REACTIVE DYES FOR DYEING AND PRINTING OF CELLULOSIC FIBRES

- 4.1 BEZAKTIV S-LF
- 4.2 BEZAKTIV S-MAX and
BEZAKTIV S-MATRIX 150
- 4.3 BEZAKTIV COSMOS S-C
- 4.4 BEZAKTIV GO
- 4.5 BEZAKTIV HP
- 4.6 BEZAKTIV V
- 4.7 BEZAKTIV S
- 4.8 BEZAKTIV HE-MATRIX
- 4.9 BEZAKTIV HE
- 4.10 BEZAKTIV GF
- 4.11 BEZAKTIV P

5. VAT DYES FOR DYEING OF CELLULOSE FIBRES

- 5.1 BEZATHREN

6. DISPERSE DYES

6.1 DISPERSE DYES FOR PES FIBRES

- 6.1.1 BEMACRON HP-LTD /
BEMACRON HP
- 6.1.2 BEMACRON SEL
- 6.1.3 BEMACRON RS / BEMACRON S /
BEMACRON SE
- 6.1.4 BEMACRON E
- 6.1.5 BEMACRON P

6.2 DISPERSE DYES FOR ACETAT FIBRES

- 6.2.1 BEMACRON CA

7. 1:2 METAL COMPLEX DYES FOR DYEING OF PA FIBRES

- 7.1 BEMAPLEX M-T / BEMAPLEX M
- 7.2 BEMAPLEX N
- 7.3 BEMAPLEX D
- 7.4 BEMAPLEX P

8. REACTIVE DYES FOR DYEING OF WOOL FIBRES

8.1 BEZAKTIV WO

9. ACID DYES FOR WOOL AND PA FIBRES

9.1 BEMACID E-TL / BEMACID E

9.2 BEMACID N-TF / BEMACID N

9.3 BEMACID F

9.4 BEMACID P

10. DIRECT DYES FOR DYEING OF CELLULOSIC FIBRES

10.1 TUBANTIN

11. CATIONIC DYES FOR DYEING OF PAN FIBRES

11.1 BEZACRYL

12. FINISHING AUXILIARIES

12.1 Softeners

12.2 Silicone softeners

12.3 Silicone compound softeners

12.4 Softener concentrates

12.5 Easy care finishing agents and
catalysts

12.6 Handle modifier

12.7 Sewing thread lubricants

12.8 Yam lubricants

12.9 Antistatic agents

12.10 Antifoams

12.11 Other finishing agents

13. FIBRE ADDITIVES

- 13.1 Spinning lubricants for polyester
- 13.2 Spinning lubricants for polyolefine filaments
- 13.3 Spinning lubricants for polyolefine staple fibres
- 13.4 Spinning lubricants for polyamide
- 13.5 Lubricants for yarn production
- 13.6 Coning oils
- 13.7 Spinning lubricants for polyolefine tape
- 13.8 Spinning lubricants for polyolefine spunbond
- 13.9 Other fibre additives

14. COATING

- 14.1 Dispersions / binders
- 14.2 Thickening agents
- 14.3 Antifoams
- 14.4 Crosslinking and fixing agents
- 14.5 Compounds for paste coating
- 14.6 Compounds for foam coating
- 14.7 Films / membranes / laminating
- 14.8 Water / oil repellence
- 14.9 Other coating auxiliaries

15. TEXTILE PRINTING

- 15.1 Disperse thickener
- 15.2 Vat thickener
- 15.3 Reactive thickener
- 15.4 Universal thickener
- 15.5 Carpet thickener
- 15.6 Carpet auxiliaries
- 15.7 Oxidizing / reducing agents
- 15.8 Printing auxiliaries
- 15.9 Blanket adhesives
- 15.10 Printing washing-off
- 15.11 Pigment thickeners
- 15.12 Binders
- 15.13 Fixing agents

15. TEXTILE PRINTING

- 15.14 Softeners
- 15.15 Pigment rheological additives
- 15.16 White and lac pastes
- 15.17 Pigment gloss pastes
- 15.18 Foil adhesives
- 15.19 Pigment discharge pastes
- 15.20 Special printing process auxiliaries
- 15.21 Antifoams and deaerating agents
- 15.22 Running improver
- 15.23 Pigment dyeing
- 15.24 Screen printing ink
- 15.25 Silicone compound for coating

16. PIGMENT PRODUCTS FOR PRINTING

- 16.1 BEZAPRINT GOT / BEZAPRINT
- 16.2 BEZAFLUOR
- 16.3 COLORMATCH

17. FLOCK FOR TEXTILE CLOTHING

- 17.1 Flock additives
- 17.2 Flock adhesives
- 17.3 Flock transfer auxiliaries

18. SIZING ADHESIVES

19. GARMENT AUXILIARIES

- 19.1 Amylases
- 19.2 Cellulases
- 19.3 Laccases
- 19.4 Antibackstaining washing & dispersing agents
- 19.5 Softeners
- 19.6 Resin finishing agents
- 19.7 Auxiliaries for special effects
- 19.8 Garment dye
- 19.9 Other garment auxiliaries

INTRODUCTION

In the Zero Discharge of Hazardous Chemicals (ZDHC) Joint Roadmap, Version 2, ZDHC member brands are committed to define and develop a Manufacturing Restricted Substances List (MRSL) for the apparel and footwear industry. The ZDHC MRSL addresses hazardous substances potentially used and discharged into the environment during manufacturing and related processes, not just those substances that could be present in finished products.

The ZDHC MRSL is a list of chemical substances subject to a usage ban, meaning that the MRSL-listed chemical substance or group of substances may not be used to achieve a desired function or effect during production of the raw material or product (that is, no intentional use). Due to the existence of manufacturing impurities in chemical formulations, a minor or trace amount of the restricted substance is permitted within defined concentration limits. Chemical formulations containing restricted substances that exceed these limits are not compliant with the MRSL.

Additional to the restrictions defined by the ZDHC MRSL (version 1.1, December 2015), the CHT Germany GmbH and CHT Switzerland AG published this H&M recommendation list, containing products, which are also compliant with the H&M Chemical Restrictions for Apparel/Accessories/Footwear/Home Interior Textile Products and with the H&M Manufacturing Restricted Substances List.

Please be advised that based on the information available to us from our raw material suppliers the current products offered in the product lines listed below do not exceed the limits of the H&M Chemical Restrictions for Apparel/Accessories/Footwear/Home Interior Textile Products and with the H&M Manufacturing Restricted Substances List. To the best of our knowledge, none of these substances are intentionally generated during production.

This list currently does not cover the complete portfolio of the CHT Group worldwide but will be updated permanently or whenever the demands are changing or the product range is being expanded.

This confirmation is only valid for the H&M Chemical Restrictions for Apparel/Accessories/Footwear/Home Interior Textile Products (Version January 2018) including amendments 2018:1, 2018:2 and with the H&M Manufacturing Restricted Substances List (Version January 2018).

If you have any questions concerning the application and further technical details, please contact

Mrs. Dr. Lilia Lohrey
CHT Germany GmbH
Bismarckstr. 102
72072 Tübingen
Germany
Tel.: +49 / (0) 7071 154 314
e-mail: lilia.lohrey@cht.com

DISCLAIMER:

This document is in addition to, but not replacing, the information on the Material Safety Data Sheet (MSDS) and the Technical Leaflet (TL). Please read the MSDS and the TL of the product in order to comply with legal requirements and the H&M Chemical Restrictions. The TL informs about the CHT recommendations for proper application. Any user of our products is responsible for determining the suitability of CHT products for its particular application.

PRETREATMENT

2.1 ENZYMES

BEISOL AFG
BEISOL PRO

BEISOL HTS
BEISOL SED

BEISOL LZV
BEISOL T 2090

2.2 SOURCING AUXILIARIES

SUBITOL AS 6

SUBITOL ASN

2.3 MERCERISING AND CAUSTICISING AGENT

SUBITOL MLF

2.4 SEQUESTRANTS

BEIXON NE
HEPTOL ESW ¹

HEPTOL B 81 200%
HEPTOL KEB

HEPTOL EMG ¹
HEPTOL NWS

2.5 WETTING AGENTS

SUBITOL LS-N
SUBITOL SB

SUBITOL RNC

SUBITOL SAN

2.6 WASHING AGENTS

FELOSAN ELA
FELOSAN IFA
FELOSAN NKB
FELOSAN RG-N
LAVOTAN SE

FELOSAN FDO NEU
FELOSAN JET
FELOSAN NOF
FELOSAN RIZ
LAVOTAN TBU

FELOSAN FOX
FELOSAN NFG
FELOSAN RNF
LAVOTAN DSU

2.7 STABILIZERS

CONTAVAN BRT
CONTAVAN ICE
CONTAVAN VAN

CONTAVAN DSA
CONTAVAN TIG
HEPTOL B 95

CONTAVAN GAL
CONTAVAN TIM
VISCAVIN GFN

¹ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

PRETREATMENT

2.8 OPTICAL BRIGHTENERS

TUBOBLANC 2 B CONC	TUBOBLANC COL	TUBOBLANC CRL
TUBOBLANC CRL-S3	TUBOBLANC DIK	TUBOBLANC EBF
TUBOBLANC ERN	TUBOBLANC HA	TUBOBLANC HA-D3 ²
TUBOBLANC HA-PD	TUBOBLANC HA-S4 ²	TUBOBLANC HV
TUBOBLANC MA	TUBOBLANC PE-R	TUBOBLANC PT-B
TUBOBLANC PT-O	TUBOBLANC RBV	TUBOBLANC RUB

2.9 pH-BUFFERS

CHT-PUFFER FBA	NEUTRACID NCS	NEUTRACID NVM 200
NEUTRACID PAT	NEUTRACID WSG	

2.10 ANTIFOAMS AND DEAERATING AGENTS

KOLLASOL AD	KOLLASOL CDA	KOLLASOL CDO
KOLLASOL CDS	KOLLASOL HV	KOLLASOL IND
KOLLASOL K22	KOLLASOL LOK	KOLLASOL OCE
KOLLASOL SD		

2.11 OTHER AUXILIARIES

CHT-AKTIVATOR FBA	FLUOREX DEL	TUBOSET DAP
TUBOSET LVI	TUBOSET PAP	TUBOSET SAM
TUBOSET SML	TUBOTEX NCD	TUBOTEX OW

² The product contains a small amount of aniline as an impurity in its recipe. According to our estimation a limit value of < 10 ppm can be obtained with regard to the applied quantity under suitable production conditions. Therefore the limit value according to the H&M restrictions can be kept.

DYEING AUXILIARIES

3.1 LEVELLING AGENTS FOR CEL

RETINOL M
SARABID SBF-N

SARABID LDR³
SARABID VAT³

SARABID MIP³
SARABID C 12³

3.2 LEVELLING AGENTS & DYEING ACCELERATORS FOR SYNTHETIC FIBRES

ACRYPAL OE
EGASOL MD
SARABID IPM
TUBACRYL RI

CHT-DISPERGATOR XHT
SARABID IPD
SARABID TS 300
SARABID C 12³

CHT-DISPERGATOR XHT-S
SARABID IPF
SARAPOL DLN
SARABID C 14³

3.3 CREASE PREVENTION AGENTS

BIAVIN 109
BIAVIN PCV

BIAVIN BPA
BIAVIN TCC

BIAVIN DFG
VISCAVIN S 700

3.4 pH-REGULATORS AND BUFFERS

BEICONTROL RD
MEROPAN KP
Si-CONTROL KKV

MEROPAN CIT³
MEROPAN LS

MEROPAN EF 200
NEUTRACID BO 45

3.5 AFTERSOAPING AGENTS

COTOBLANC KRS
COTOBLANC RS

COTOBLANC NSR
COTOBLANC SEL

COTOBLANC PCS
COTOBLANC SEL 200

3.6 ENZYMES

BEIZYM ACE
BEIZYM HC

BEIZYM BPN
BEIZYM UL

BEIZYM BPN 300

3.7 FASTNESS IMPROVEMENT

REVOFIX WET
REWINDMT
REWINDMRT

REWINDACP
REWINDFSN
REWINDOS

REWINDD
REWINDIN 35
REWINDWR

³ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

DYEING AUXILIARIES

3.8 AFTERTREATMENT AND RESERVING AGENTS FOR PA

PAFIX No1
REWIN KMB ⁴

REWIN KBL
REWIN KNR ⁴

REWIN KF ⁴

3.9 AUXILIARIES FOR PADDING AND CONTINUOUS DYEING

COLORCONTIN MCD

COLORCONTIN VGP

MIGRASOL SAP

3.10 OXIDIZING AND REDUCING AGENTS

MEROPAN RED ⁴
REDULIT F

MEROPAN XR GRANULAT
REDULIT GIN

REDULIT EX
REDULIT RED ⁴

3.11 PEROXIDE DESTRUCTORS

CHT-CATALASE BF

MEROPAN BRE

3.12 SEQUESTRANTS AND DISPERSING AGENTS

BEIXON AB 200%
CHT-DISPERGATOR SMS ⁴
MEROPAN DA
SARABID 200 LL

BEIXON BCA
HEPTOL ANO
MEROPAN DA 200
SARABID DLO CONC

CHT-DISPERGATOR ORM ⁴
HEPTOL SF4
MEROPAN DPE

3.13 OTHER DYEING AUXILIARIES

ARRISTAN BINDER CA ⁵

REWIN LAN

SILKOBLANC BN

3.14 CLEANING AGENT FOR MACHINES

INTENSOL MR

INTENSOL OLI

⁴ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

⁵ Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.

REACTIVE DYES FOR DYEING AND PRINTING OF CELLULOSIC FIBRES

4.1 BEZAKTIV S-LF

BEZAKTIV Yellow S-LF ⁶
BEZAKTIV Blue S-LF ⁶
BEZAKTIV Navy S-LF ⁶

BEZAKTIV Beige S-LF ⁶
BEZAKTIV Grey S-LF ⁶

BEZAKTIV Red S-LF ⁶
BEZAKTIV Black S-LF ⁶

4.2 BEZAKTIV S-MAX AND BEZAKTIV S-MATRIX 150

BEZAKTIV Yellow S-MAX
BEZAKTIV Red S-MAX
BEZAKTIV Blue S-MAX
BEZAKTIV Black S-MAX

BEZAKTIV Yellow S-MATRIX 150
BEZAKTIV Red S-MATRIX 150
BEZAKTIV Blue S-MATRIX 150 ⁶
BEZAKTIV Cosmos S-MAX

BEZAKTIV Orange S-MAX
BEZAKTIV Rubine S-MAX-01
BEZAKTIV Navy S-MAX

4.3 BEZAKTIV COSMOS S-C

BEZAKTIV Cosmos Yellow S-C
BEZAKTIV Cosmos Orange S-C
BEZAKTIV Cosmos Blue S-C

BEZAKTIV Cosmos Golden Yellow S-C
BEZAKTIV Cosmos Red S-C
BEZAKTIV Cosmos Navy S-C

4.4 BEZAKTIV GO

BEZAKTIV Golden Yellow GO
BEZAKTIV Red GO
BEZAKTIV Navy GO

BEZAKTIV Orange GO
BEZAKTIV Blue GO ⁶
BEZAKTIV Black GO

BEZAKTIV Scarlet GO
BEZAKTIV Dark Blue GO ⁶

4.5 BEZAKTIV HP

BEZAKTIV Yellow HP-NP
BEZAKTIV Blue HP-R ⁶
BEZAKTIV Grey HP-N ⁶

BEZAKTIV Red HP-3B
BEZAKTIV Brown HP-5R

BEZAKTIV Red HP-BL
BEZAKTIV Olive HP-B ⁶

4.6 BEZAKTIV V

BEZAKTIV Yellow V-5GL
BEZAKTIV Yellow V-GR 133
BEZAKTIV Yellow V-3B ⁶
BEZAKTIV Red V-BT 200
BEZAKTIV Red V-F3B
BEZAKTIV Violet V-5R ⁶
BEZAKTIV Blue V-RN 150
BEZAKTIV Green V-6B ⁷
BEZAKTIV Navy V-2G 133
BEZAKTIV Black V-BD 133
BEZAKTIV Black V-RSD 75 liq.

BEZAKTIV Yellow V-GL 150
BEZAKTIV Yellow V-R
BEZAKTIV Red V-GG
BEZAKTIV Red V-RB 133
BEZAKTIV Red V-3B ⁶
BEZAKTIV Blue V-R spec.
BEZAKTIV Blue V-2B 133 ⁶
BEZAKTIV Brown V-GR ⁶
BEZAKTIV Black V-RL 150 ⁶
BEZAKTIV Black V-GRA

BEZAKTIV Yellow V-FGA
BEZAKTIV Yellow V-2R 150
BEZAKTIV Red V-BB 150
BEZAKTIV Red V-5B
BEZAKTIV Bordeaux V-B ⁶
BEZAKTIV Blue V-RN spec.
BEZAKTIV Turquoise V-G conc. ⁶
BEZAKTIV Dark Blue V-HR ⁶
BEZAKTIV Black V-B 150
BEZAKTIV Black V-CMR

⁶ contains Cu, for baby wear the content of Cu in the extract should be controlled

⁷ contains Ni, content of Ni in the extract should be controlled

4.7 BEZAKTIV S

BEZAKTIV Yellow S-8G	BEZAKTIV Yellow S-8GN	BEZAKTIV Yellow S-3R 150
BEZAKTIV Orange S-RL 150	BEZAKTIV Scarlet S-2GF 150	BEZAKTIV Red S-GT 150
BEZAKTIV Red S-2B	BEZAKTIV Red S-3B 150	BEZAKTIV Blue S-FR 150 ⁸
BEZAKTIV Blue S-R ⁸	BEZAKTIV Blue S-RN ⁸	BEZAKTIV Blue S-GN 150
BEZAKTIV Blue S-GLD 150 ⁸	BEZAKTIV Blue S-2G	BEZAKTIV Turquoise S-BF 150 ⁸
BEZAKTIV Royal S-B	BEZAKTIV Navy S-3G 150	BEZAKTIV Navy S-2GL
BEZAKTIV Navy S-BL	BEZAKTIV Navy S-CR ⁸	BEZAKTIV Navy S-G
BEZAKTIV Green S-4B 150	BEZAKTIV Brown S-5BR	BEZAKTIV Black S-GR
BEZAKTIV Black S-NN	BEZAKTIV Black S-NN liq.	BEZAKTIV Black S-TAR
BEZAKTIV Black S-WF		

4.8 BEZAKTIV HE-MATRIX

BEZAKTIV Yellow HE-MATRIX	BEZAKTIV Red HE-MATRIX	BEZAKTIV Navy HE-MATRIX
---------------------------	------------------------	-------------------------

4.9 BEZAKTIV HE

BEZAKTIV Yellow HE-6G	BEZAKTIV Yellow HE-4G	BEZAKTIV Yellow HE-4R
BEZAKTIV Orange HE-R	BEZAKTIV Scarlet HE-2G	BEZAKTIV Red HE-3B
BEZAKTIV Red HE-7B	BEZAKTIV Turquoise HE-A ⁸	BEZAKTIV Blue HE-RM 133 ⁸
BEZAKTIV Blue HE-GX 145	BEZAKTIV Navy HE-R 120	

4.10 BEZAKTIV GF

BEZAKTIV Yellow GF-6G	BEZAKTIV Yellow GF-RR	BEZAKTIV Beige GF-2G ⁸
BEZAKTIV Orange GF-2G	BEZAKTIV Red GF-4B	BEZAKTIV Red GF-BR
BEZAKTIV Violet GF-3R ⁸	BEZAKTIV Blue GF-GG	BEZAKTIV Blue GF-N
BEZAKTIV Blue GF-RD ⁸	BEZAKTIV Turquoise GF-2G ⁸	BEZAKTIV Green GF-4B ⁹
BEZAKTIV Brown GF-R ⁸	BEZAKTIV Grey GF-N ⁸	

4.11 BEZAKTIV P

BEZAKTIV Yellow P-6G	BEZAKTIV Yellow P-5G	BEZAKTIV Yellow P-4GD 125
BEZAKTIV Yellow P-A	BEZAKTIV Golden Yellow P-R	BEZAKTIV Orange P-2R
BEZAKTIV Orange P-4R	BEZAKTIV Orange P-XR	BEZAKTIV Scarlet P-R
BEZAKTIV Red P-B	BEZAKTIV Red P-8BN	BEZAKTIV Violet P-3R ⁸
BEZAKTIV Turquoise P-A ⁸	BEZAKTIV Blue P-BR	BEZAKTIV Blue P-3R
BEZAKTIV Blue P-XR	BEZAKTIV Navy P-5R ⁸	BEZAKTIV Navy P-2R
BEZAKTIV Black P-R		

⁸ contains Cu, for baby wear the content of Cu in the extract should be controlled

⁹ contains Ni, content of Ni in the extract should be controlled

5.1 BEZATHREN

BEZATHREN Yellow 5GF	BEZATHREN Yellow GC	BEZATHREN Yellow F3GC
BEZATHREN Yellow 3RT	BEZATHREN Golden Yellow RK	BEZATHREN Golden Orange 3G
BEZATHREN Golden Orange G	BEZATHREN Orange RRTS	BEZATHREN Orange GR
BEZATHREN Red LGG	BEZATHREN Red LGN	BEZATHREN Scarlet GG
BEZATHREN Scarlet EFR	BEZATHREN Red FBB	BEZATHREN Red F3B
BEZATHREN Bordeaux RR	BEZATHREN Rubine R	BEZATHREN Violet 3B
BEZATHREN Violet B	BEZATHREN Blue RCL	BEZATHREN Blue RS
BEZATHREN Blue BC	BEZATHREN Blue CLF	BEZATHREN Dark Blue BOA
BEZATHREN Dark Blue DB	BEZATHREN Navy GN	BEZATHREN Green CF
BEZATHREN Green FFB	BEZATHREN Olive Green B	BEZATHREN Olive Green MW
BEZATHREN Brown LBG	BEZATHREN Brown G	BEZATHREN Brown R
BEZATHREN Brown BR	BEZATHREN Brown HRR	BEZATHREN Olive R
BEZATHREN Olive T	BEZATHREN Grey RBN	BEZATHREN Grey CL
BEZATHREN Grey CB	BEZATHREN Grey MIR	BEZATHREN Grey NC
BEZATHREN Black RB	BEZATHREN Black R	BEZATHREN Black RI
BEZATHREN Black BB		

DISPERSE DYES

6.1 DISPERSE DYES FOR PES FIBRES

6.1.1 BEMACRON HP-LTD / BEMACRON HP

BEMACRON Yellow HP-LTD 01	BEMACRON Orange HP-LTD 01	BEMACRON Red HP-LTD 01
BEMACRON Rubine HP-LTD 01	BEMACRON Blue HP-LTD	BEMACRON Black HP-LTD
BEMACRON Citron HP-2G	BEMACRON Yellow HP-G	BEMACRON Yellow HP-2R
BEMACRON Orange HP-3B	BEMACRON Carmine HP-2G	BEMACRON Red HP-B
BEMACRON Red HP-BS	BEMACRON Red HP-2BL	BEMACRON Red HP-RT
BEMACRON Rubine HP-3B	BEMACRON Cyan HP-G	BEMACRON Blue HP-3R
BEMACRON Navy HP-RT	BEMACRON Black HP-RT	
BEMACRON Dark Blue HP-LTD 01		

6.1.2 BEMACRON SEL

BEMACRON Luminous Yellow SEL-EN	BEMACRON Luminous Yellow SEL-8G
BEMACRON Luminous Orange SEL-EN	BEMACRON Luminous Red SEL-G
BEMACRON Luminous Red SEL-4B	

6.1.3 BEMACRON RS / BEMACRON S / BEMACRON SE

BEMACRON Yellow RS	BEMACRON Red RS	BEMACRON Rubine RS
BEMACRON Blue RS	BEMACRON Navy RS	BEMACRON Black RS
BEMACRON Yellow S-6GF	BEMACRON Yellow S-4G	BEMACRON Orange S-G
BEMACRON Scarlet S-GFL	BEMACRON Scarlet S-BWFL	BEMACRON Rubine S-2GFL
BEMACRON Violet S-3RL	BEMACRON Violet S-BLF	BEMACRON Blue S-BGL
BEMACRON Blue S-BB	BEMACRON Turquoise S-GF	BEMACRON Navy S-2GL
BEMACRON Navy S-3L	BEMACRON Black S-3L	BEMACRON Black S-TL
BEMACRON Yellow SE-RDL	BEMACRON Yellow SE-LF	BEMACRON Red SE-4G
BEMACRON Pink SE-REL	BEMACRON Red SE-3B	BEMACRON Red SE-RDL
BEMACRON Blue SE-LF	BEMACRON Blue SE-RDL	BEMACRON Black SE-RD2R
BEMACRON Yellow Brown S-2RFL		

6.1.4 BEMACRON E

BEMACRON Yellow E-3GL	BEMACRON Red E-FBL	BEMACRON Blue E-FBL
BEMACRON Black E-RD		

DISPERSE DYES

6.1.5 BEMACRON P

BEMACRON Yellow P-6G	BEMACRON Black P-NL liq.	BEMACRON Black P-G
BEMACRON Yellow P-4G	BEMACRON Grey P-N	BEMACRON Navy P-2G
BEMACRON Orange P-G	BEMACRON Scarlet P-4R	BEMACRON Pink P-R
BEMACRON Red P-4G	BEMACRON Red P-3B	BEMACRON Scarlet P-3G
BEMACRON Rubine P-2G	BEMACRON Red P-BBL	BEMACRON Violet P-3R
BEMACRON Turquoise P-BG	BEMACRON Blue P-BG	BEMACRON Blue P-R
BEMACRON Blue P-BB	BEMACRON Luminous Yellow P-8G	
BEMACRON Luminous Red P-G	BEMACRON Golden Yellow P-6M	

6.2 DISPERSE DYES FOR ACETAT FIBRES

6.2.1 BEMACRON CA

BEMACRON Yellow CA	BEMACRON Orange CA	BEMACRON Red CA
BEMACRON Blue CA	BEMACRON Navy CA	BEMACRON Black CA 01

1:2 METAL COMPLEX DYES FOR WOOL AND PA FIBRES

7.1 BEMAPLEX M-T / BEMAPLEX M

BEMAPLEX Yellow M-T ¹⁰
BEMAPLEX Black M-2B ¹¹

BEMAPLEX Red M-T ¹¹
BEMAPLEX Black M-LB ¹¹

BEMAPLEX Navy M-T ¹¹

7.2 BEMAPLEX N

BEMAPLEX Yellow N-RN ¹¹
BEMAPLEX Red N-RBD ¹¹
BEMAPLEX Black N-RLD ¹¹

BEMAPLEX Yellow N-BR ¹²
BEMAPLEX Bordeaux N-GT ¹²

BEMAPLEX Yellow N-2RD ¹²
BEMAPLEX Grey N-BL ¹¹

7.3 BEMAPLEX D

BEMAPLEX Yellow D-4R ¹²
BEMAPLEX Red D-RL ¹¹
BEMAPLEX Navy D-RD ¹¹
BEMAPLEX Brown D-2R ¹¹
BEMAPLEX Black D-R ¹¹

BEMAPLEX Orange D-R ¹¹
BEMAPLEX Rubine D-B ¹¹
BEMAPLEX Green D-3B ¹¹
BEMAPLEX Brown D-BD ¹¹
BEMAPLEX Black D-TR ¹¹

BEMAPLEX Scarlet D-G ¹¹
BEMAPLEX Blue D-8G ¹³
BEMAPLEX Olive D-GL ¹¹
BEMAPLEX Black D-HF ¹¹

7.4 BEMAPLEX P

BEMAPLEX Navy P-DRD ¹¹

BEMAPLEX Brown P-DBD ¹¹

BEMAPLEX P-DTR ¹¹

¹⁰ contains Cr/Co, the content of Cr/Co in the extract should be controlled

¹¹ contains Cr, the content of Cr in the extract should be controlled

¹² contains Co, the content of Co in the extract should be controlled

¹³ contains Cu, for baby wear the content of Cu in the extract should be controlled

REACTIVE DYES FOR WOOL FIBRES

8.1 BEZAKTIV WO

BEZAKTIV Yellow WO-4G
BEZAKTIV Orange WO-R
BEZAKTIV Red WO-B
BEZAKTIV Blue WO-2R
BEZAKTIV Navy WO-BT
BEZAKTIV Black WO-X

BEZAKTIV Yellow WO-5G
BEZAKTIV Scarlet WO-2G
BEZAKTIV Red WO-BB
BEZAKTIV Blue WO-DB
BEZAKTIV Navy WO-X

BEZAKTIV Yellow WO-4R
BEZAKTIV Red WO-RS
BEZAKTIV Red WO-6G
BEZAKTIV Blue WO-3G
BEZAKTIV Black WO-RS

ACID DYES FOR WOOL AND PA FIBRES

9.1 BEMACID E-TL / BEMACID E

BEMACID Red E-TL
BEMACID Yellow E-4G
BEMACID Luminous Red E-B
BEMACID Red E-3BS
BEMACID Blue E-3GC

BEMACID Blue E-TL
BEMACID Yellow E-T3R
BEMACID Red E-KRL
BEMACID Blue E-T4R

BEMACID Luminous Yellow E-B
BEMACID Yellow E-5R
BEMACID Red E-T2B
BEMACID Blue E-G

9.2 BEMACID N-TF / BEMACID N

BEMACID Yellow N-TF
BEMACID Yellow N-2G
BEMACID Bordeaux N-BL
BEMACID Black N-TMF

BEMACID Red N-TF
BEMACID Orange N-BG
BEMACID Blue N-5GL

BEMACID Blue N-TF
BEMACID Rubine N-5B
BEMACID Navy N-5R

9.3 BEMACID F

BEMACID Yellow F-G
BEMACID Scarlet F-3G
BEMACID Red F-4B
BEMACID Blue F-2R
BEMACID Turquoise F-G ¹⁴
BEMACID Black F-WL ¹⁵

BEMACID Yellow F-RN
BEMACID Red F-GS
BEMACID Red F-LE
BEMACID Blue F-2G
BEMACID Green F-2B

BEMACID Orange F-GR
BEMACID Red F-B
BEMACID Violet F-B
BEMACID Blue F-BL
BEMACID Green F-VS

¹⁴ contains Cu, for baby wear the content of Cu in the extract should be controlled

¹⁵ contains Cr, the content of Cr in the extract should be controlled

ACID DYES FOR WOOL AND PA FIBRES

9.4 BEMACID P

BEMACID Yellow P-FG
BEMACID Scarlet P-F3G
BEMACID Red P-F4B
BEMACID Blue P-F2G
BEMACID Green P-F2B

BEMACID Yellow P-FRN
BEMACID Red P-FGS
BEMACID Violet P-FB
BEMACID Turquoise P-FG ¹⁶

BEMACID Orange P-FGR
BEMACID Red P-FLE
BEMACID Blue P-NTF
BEMACID Blue P-N5GL

DIRECT DYES FOR DYEING OF CELLULOSIC FIBRES

10.1 TUBANTIN

TUBANTIN Yellow 4GL
TUBANTIN Scarlet BNL 200
TUBANTIN Red BWS
TUBANTIN Violet BL 200 ¹⁶
TUBANTIN Blue FGL
TUBANTIN Dark Blue R
TUBANTIN Green BL h.c.
TUBANTIN Grey 4GL ¹⁶
TUBANTIN Black RD

TUBANTIN Yellow GR
TUBANTIN Scarlet 4B conc.
TUBANTIN Bordeaux 3BL ¹⁶
TUBANTIN Blue 3G
TUBANTIN Blue 2RL 200 ¹⁶
TUBANTIN Turquoise FBL conc. ¹⁶
TUBANTIN Brown GGL ¹⁶
TUBANTIN Grey CGLL conc. ¹⁶
TUBANTIN Black RA

TUBANTIN Orange GGLN 200
TUBANTIN Red F3B conc.
TUBANTIN Pink 2B
TUBANTIN Blue GLL 300
TUBANTIN Blue BRR h.c.
TUBANTIN Green 5GL conc.
TUBANTIN Brown BL ¹⁶
TUBANTIN Black VSF 600
TUBANTIN Black FR 900

CATIONIC DYES FOR DYEING OF PAN FIBRES

11.1 BEZACRYL

BEZACRYL Flavine 10GFF
BEZACRYL Red GTL 200
BEZACRYL Blue GRL 300
BEZACRYL Black FBL 300

BEZACRYL Gold. Yellow GL 200
BEZACRYL Red GRL 180
BEZACRYL Blue FBS
BEZACRYL Black FDL 200

BEZACRYL Brilliant Red 4G
BEZACRYL Brilliant Violet 3RN
BEZACRYL Blue BG 200

¹⁶ contains Cu, for baby wear the content of Cu in the extract should be controlled

FINISHING AUXILIARIES

12.1 SOFTENERS

POLYAVIN PEN
TUBINGAL RNJ

TUBINGAL 220
TUBINGAL RRW

TUBINGAL KRE

12.2 SILICONE SOFTENERS

ARRISTAN 64
ARRISTAN 71
TUBINGAL 3S
TUBINGAL FMH
TUBINGAL OHS ¹⁷

ARRISTAN 66
ARRISTAN 201
TUBINGAL 9270
TUBINGAL GSI
TUBINGAL RGH

ARRISTAN 66 CONC.
TUBINGAL 2270
TUBINGAL FAM
TUBINGAL ISP ¹⁷
TUBINGAL SMF

12.3 SILICONE COMPOUND SOFTENERS

TUBINGAL 2221 ¹⁹
TUBINGAL RGS
TUBINGAL RTC

TUBINGAL ACE
TUBINGAL RMG

TUBINGAL HWS
TUBINGAL RSK

12.4 SOFTENER CONCENTRATES

TUBINGAL 3030

TUBINGAL 4748

TUBINGAL 7023

12.5 EASY CARE FINISHING AGENTS AND CATALYSTS

CHT-KATALYSATOR ABT
REAKNITT BC ¹⁸
REAKNITT TIO ¹⁸

CHT-KATALYSATOR BFM
REAKNITT FF ¹⁸
REAKNITT ZF

CHT-KATALYSATOR FS
REAKNITT MFA ¹⁸

12.6 HANDLE MODIFIER

ARRISTAN ACS ¹⁹
ARRISTAN GH ¹⁹

ARRISTAN CPU
ARRISTAN HM

ARRISTAN EPD
ARRISTAN RPD FL.

¹⁷ The product contains a small amount of octamethylcyclotetrasiloxane (D4) in its manufacturing recipe. Because D4 is a volatile substance and under usual processing conditions, the limit value < 1000 ppm according to H&M restrictions on the final fabric can be kept.

¹⁸ Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.

¹⁹ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

FINISHING AUXILIARIES

12.7 SEWING THREAD LUBRICANTS

POLYAVIN 3000
POLYAVIN COLD
POLYAVIN UFP

POLYAVIN ANG 35
POLYAVIN HELP

POLYAVIN BOND ²⁰
POLYAVIN HELP TEX

12.8 YARN LUBRICANTS

LUSTRAFFIN AS
LUSTRAFFIN DBL
LUSTRAFFIN RTK

LUSTRAFFIN BA
LUSTRAFFIN LF CONC
LUSTRAFFIN SL

LUSTRAFFIN BO
LUSTRAFFIN SA 88

12.9 ANTISTATIC AGENTS

AVISTAT 3 P
AVISTAT GPA

AVISTAT AZ NEU

AVISTAT G 100

12.10 ANTIFOAMS

CHT-ENTSCHÄUMER K 50

CHT-ENTSCHÄUMER MI

CHT-ENTSCHÄUMER MI 2000

12.11 OTHER FINISHING AGENTS

ARRISTAN AIR
FLEXOFIX A 30
NouWell E
NouWell SPA ²¹

ARRISTAN HPA
FLEXOFIX FL.
NouWell RLX
PESOFIX WM

ARRISTAN HPC
iSys MTX
NouWell SCA ²¹
TUBIPERL SILVER

²⁰ Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.

²¹ The product contains a small amount of octamethylcyclotetrasiloxane (D4) in its manufacturing recipe. Because D4 is a volatile substance and under usual processing conditions, the limit value < 1000 ppm according to H&M restrictions on the final fabric can be kept.

13.1 SPINNING LUBRICANTS FOR POLYESTER

DURON 1105 PE	DURON 14	DURON AF 2170
DURON ES 3151	DURON ES 3165	DURON ES 3176
DURON ES 3184	DURON ES 3188	DURON FF 1995
DURON FF 2084	DURON FF 3185	DURON FF 3190
DURON K 3168	DURON NV 12	DURON NV 2
DURON NV 7	DURON X 730	

13.2 SPINNING LUBRICANTS FOR POLYOLEFINE FILAMENTS

DURON OF 1812/80	DURON OF 1851	DURON OF 2148
DURON OF 2168	DURON OF 2173	DURON OF 2196
DURON OF 2199	DURON OF 2202	DURON OF 3174
DURON OF 3201	DURON OF 3206	DURON OF 4013
DURON TX 2080		

13.3 SPINNING LUBRICANTS FOR POLYOLEFINE STAPLE FIBRES

AVISTAT 3 P	DURON 1105 PE	DURON K 3168
DURON OF 1510	DURON OF 1543	DURON OF 3850
DURON OF 4012	DURON OS 1547	DURON OS 1547-AV
DURON OS 1547-LA	DURON OS 2206	DURON OS 3034
DURON OS 3136	DURON OS 3151	DURON OS 3188
DURON OS 4012 CO	DURON OS 4022	DURON OS 3176

13.4 SPINNING LUBRICANTS FOR POLYAMIDE

DURON 1105 PE	DURON 14	DURON AF 2170
DURON AS 1711	DURON ASE 7620	DURON K 2088
DURON NV 12		

13.5 LUBRICANTS FOR YARN PRODUCTION

DURON AC	DURON KG 1710	DURON KG 2450
DURON KG 3010	DURON NV 12	DURON NV 2
DURON NV 7	DURON P 1	DURON SG 2420
DURON SI	DURON TX 2083	DURON VWS
SILIC	VITAGON RS 20	

FIBRE ADDITIVES

13.6 CONING OILS

DURON K 2114

DURON TX 2080

DURON TX 4029

13.7 SPINNING LUBRICANTS FOR POLYOLEFINE TAPE

DURON 178
DURON OF 3206
DURON OF 4035

DURON K 3215
DURON OF 4004

DURON OF 2148
DURON OF 4031

13.8 SPINNING LUBRICANTS FOR POLYOLEFINE SPUNBOND

DURON OF 1547
DURON OF 2148
DURON OF 4035

DURON OF 1547-AV
DURON OF 4012
DURON 4048

DURON OF 1547-LA
DURON OF 4012 BOT

13.9 OTHER FIBRE ADDITIVES

DURON TX 2083

DURON WARP WAX 109

HANSA AFE 5711

COATING

14.1 DISPERSIONS / BINDERS

TUBICOAT A 17 ²²
TUBICOAT A 28 ²²
TUBICOAT E 4 ²²
TUBICOAT PU 80

TUBICOAT A 19 ²³
TUBICOAT A 36 ²³
TUBICOAT PU 44 K
TUBICOAT PUS

TUBICOAT A 22 ²²
TUBICOAT A 41 ²²
TUBICOAT PU 60
TUBICOAT PU-VH NEU

²² Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.
²³ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

COATING

14.2 THICKENING AGENTS

TUBICOAT HEC	TUBICOAT VERDICKER 17	TUBICOAT VERDICKER ASD
TUBICOAT VERDICKER HEC	TUBICOAT VERDICKER LP	TUBICOAT VERDICKER PRA

14.3 ANTIFOAMS

TUBICOAT ENTSCHÄUMER BS	TUBICOAT ENTSCHÄUMER N	TUBICOAT ENTSCHÄUMER N 20
-------------------------	------------------------	---------------------------

14.4 CROSSLINKING AND FIXING AGENTS

TUBICOAT FIXIERER AZ	TUBICOAT FIXIERER FA ²⁴	TUBICOAT FIXIERER FC ²⁵
TUBICOAT FIXIERER H 24 ²⁵		

14.5 COMPOUNDS FOR PASTE COATING

TUBICOAT DEP-PU ²⁴	TUBICOAT MAF ²⁶	TUBICOAT PERL PU SOFT ²⁴
TUBICOAT WOT	TUBICOAT WX BASE ²⁶	

14.6 COMPOUNDS FOR FOAM COATING

TUBICOAT MP-D ²⁶

14.7 FILMS / MEMBRANES / LAMINATING

LAMETHAN ADH-1 ²⁴	LAMETHAN LB 15-T BR 152	LAMETHAN LB 15-T W 150
LAMETHAN VL-H920 O BR150	LAMETHAN VL-H920 S BR 150	LAMETHAN VL-H920 W BR150
TUBICOAT ASK		

14.8 WATER / OIL REPELLENCE

ECOPERL 4	ECOPERL ACTIVE	ECOPERL HC
zeroF 1 ²⁶		

14.9 OTHER COATING AUXILIARIES

TUBICOAT WBV	TUBICOAT SI 55	TUBICOAT EMULGATOR HF
TUBICOAT MOP NEU	TUBICOAT WEISS EU	

²⁴ Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.

²⁵ Please note that the product is based on a blocked isocyanate polymer. We expect that no free or blocked isocyanates above H&M limit can be found on finished textile, if used according to our technical recommendations.

²⁶ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

TEXTILE PRINTING

15.1 DISPERSE THICKENER

PRISULON STAR PRISULON T 10

15.2 VAT THICKENER

PRISULON 1570 PRISULON 360 AS

15.3 REACTIVE THICKENER

CHT-ALGINAT MV CHT-ALGINAT MVU CHT-ALGINAT NV 10
CHT-ALGINAT SMT PRISULON CR-F 40 PRISULON CR-F 50

15.4 UNIVERSAL THICKENER

PRISULON CMS 10 PRISULON DCA 1200 S PRISULON DCA 130 S
PRISULON DCA 90

15.5 CARPET THICKENER

PRISULON GTS 800 TUBIVIS UNIQUE 432 TUBIVIS UNIQUE 432 HD

15.6 CARPET AUXILIARIES

RAPIDOPRINT STRETCH

15.7 OXIDIZING / REDUCING AGENTS

RAPIDOPRINT XR GRANULAT

15.8 PRINTING AUXILIARIES

PRINTPERFEKT AM 1 RAPIDOPRINT LM RAPIDOPRINT RRE
TRANSPRINT AF BASE TRANSPRINT AF BLOCK TRANSPRINT AF WHITE

TEXTILE PRINTING

15.9 BLANKET ADHESIVES

PRINTPERFEKT STIC SP 2 TUBIGUM DK 15 TUBIGUM RPD FL.	PRINTPERFEKT STIC SP 5 TUBIGUM RPA 130 TUBIGUM RS FLUESSIG	TUBIGUM DK 7 TUBIGUM RPA FL. TUBIGUM Z 12
--	--	---

15.10 PRINTING WASHING-OFF

PRINTOBLANC CPA NEU

15.11 PIGMENT THICKENERS

TUBIVIS DL 600 TUBIVIS STAR	TUBIVIS DL 650	TUBIVIS DRL 170
--------------------------------	----------------	-----------------

15.12 BINDERS

TUBIFAST AS 10 ²⁷ TUBIFAST AS 4010 ²⁷ TUBIFAST AS 4510 ²⁷	TUBIFAST AS 30 ²⁷ TUBIFAST AS 4083 FF TUBIFAST AS 4510 FF	TUBIFAST AS 40 ²⁸ TUBIFAST AS 4087 FF TUBIFAST AS 5087 FF
--	--	--

15.13 FIXING AGENTS

TUBASSIST FIX 104 W TUBIFIX P 70 ²⁹	TUBASSIST FIX 120 W ²⁹	TUBIFIX ML 55 ²⁸
---	-----------------------------------	-----------------------------

15.14 SOFTENERS

TUBISOFT PCE	TUBISOFT PS	TUBISOFT SEM
--------------	-------------	--------------

15.15 PIGMENT RHEOLOGICAL ADDITIVES

TUBIGAT AR TUBIGAT WAF 20 ²⁸	TUBIGAT R 130 NEU	TUBIGAT R 25
--	-------------------	--------------

²⁷ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

²⁸ Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.

²⁹ Please note that the product is based on a blocked isocyanate polymer. We expect that no free or blocked isocyanates above H&M limit can be found on finished textile, if used according to our technical recommendations.

TEXTILE PRINTING

15.16 WHITE AND LAC PASTES

PRINTPERFEKT LAC 70 ³¹	PRINTPERFEKT LAC 77 ³⁰	PRINTPERFEKT LAC FF
PRINTPERFEKT LAC FLEX ³¹	PRINTPERFEKT LAC LF ³⁰	PRINTPERFEKT BLANC 600 ³¹
PRINTPERFEKT BLANC 670 ³⁰	PRINTPERFEKT BLANC FF	PRINTPERFEKT BLANC FLEX ³¹
PRINTPERFEKT BLANC LF ³⁰	PRINTPERFEKT BLOCK FF	TUBILAC 115 A ³⁰
TUBILAC 55 NF	TUBIPRINT WEISS 450 DV ³¹	TUBIPRINT WEISS 500 AV ³¹
TUBIPRINT WEISS 500 NF	TUBIPRINT WEISS HEL ³⁰	TUBIPRINT WEISS K 70
TUBIPRINT WEISS K 80	TUBIPRINT WEISS K 90	

15.17 FOIL ADHESIVES

TRANSLAC BOND 55	TUBILUX TD 90 NF
------------------	------------------

15.18 PIGMENT GLOSS PASTES

PRINTPERFEKT GD 270	TUBISCREEN GD 200	TUBISCREEN GD 300
TUBISCREEN GD-BASIC ³⁰	TUBISCREEN GD BASIC FF	TUBISCREEN GD-G ³⁰
TUBISCREEN GD-G CONC. ³⁰	TUBISCREEN GD-SILVER ³⁰	

15.19 PIGMENT DISCHARGE PASTES

PRINTPERFEKT DC 8	PRINTPERFEKT DC 8 WHITE	TUBISCREEN DC 25 ³¹
TUBISCREEN DC 35 WEISS ³⁰	TUBISCREEN DC-AGENT ³¹	TUBISCREEN DC-W AGENT ³¹

15.20 SPECIAL PRINTING PROCESS AUXILIARIES

PRINTPERFEKT CRACK BASE	PRINTPERFEKT CRACK PRE ³⁰	PRINTPERFEKT EX-AR
RAPIDOPRINT CT 110	TUBISCREEN EX-TS ³¹	TUBISCREEN FAT 100 ³⁰

15.21 ANTIFOAMS AND DEAERATING AGENTS

CHT-ENTSCHÄUMER BSN	RAPIDOPRINT CT AF	RAPIDOPRINT SC 10
---------------------	-------------------	-------------------

³⁰ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

³¹ Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.

TEXTILE PRINTING

15.22 RUNNING IMPROVER

RAPIDOPRINT H 4
TUBIPRINT RETARDER

TUBIGAT A 60

TUBIPRINT BL

15.23 PIGMENT DYEING

PADICOLL CA-AF ³²
PADICOLL PAD

PADICOLL DYE
PADICOLL PRO

PADICOLL ONE ³³

15.24 SCREEN PRINTING INK

ALPAPRINT CAT
PRINTPERFEKT 226 ³³
PRINTPERFEKT BASE FF

ALPAPRINT CLEAR
PRINTPERFEKT 226 EC ³³
PRINTPERFEKT CLEAR FF

ALPAPRINT WHITE
PRINTPERFEKT 226 FF

15.25 SILICONE COMPOUND FOR COATING

ALPATEC 30142 A
ALPATEC 30143 B
ALPATEC 30203 A
ALPATEC 30340 B

ALPATEC 30142 B
ALPATEC 30191 A
ALPATEC 30203 B
ALPATEC 745

ALPATEC 30143 A
ALPATEC 30191 B
ALPATEC 30340 A

COLORMATCH SI 005 WEISS
COLORMATCH SI 115 GOLGELB
COLORMATCH SI 215 ROT
COLORMATCH SI 285 VIOLET
COLORMATCH SI 355 MARINE
COLORMATCH SI 465 OLIVGRÜN

COLORMATCH SI 105 LEMON
COLORMATCH SI 185 ORANGE
COLORMATCH SI 225 DUNKELROT
COLORMATCH SI 305 BLAU
COLORMATCH SI 405 GRÜN
COLORMATCH SI 705 SCHWARZ

³² Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.

³³ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

PIGMENT PRODUCTS FOR PRINTING

16.1 BEZAPRINT GOT / BEZAPRINT

BEZAPRINT Citron GOT	BEZAPRINT Yellow GOT	BEZAPRINT Orange GOT
BEZAPRINT Red GOT	BEZAPRINT Blue GOT	BEZAPRINT Navy GOT
BEZAPRINT Black GOT ³⁴	BEZAPRINT Citron 10G	BEZAPRINT Yellow 3GT
BEZAPRINT Yellow 2GN	BEZAPRINT Yellow RR	BEZAPRINT Yellow 4RM ³⁵
BEZAPRINT Orange 2G ³⁵	BEZAPRINT Orange RG ³⁵	BEZAPRINT Orange GT
BEZAPRINT Scarlet GRL	BEZAPRINT Scarlet RR	BEZAPRINT Red KGC
BEZAPRINT Red GCA	BEZAPRINT Red KF	BEZAPRINT Red 2BN
BEZAPRINT Pink BW	BEZAPRINT Violet FB	BEZAPRINT Violet R
BEZAPRINT Bordeaux K2R	BEZAPRINT Blue TB	BEZAPRINT Blue BT
BEZAPRINT Blue BN	BEZAPRINT Blue RT ³⁴	BEZAPRINT Blue RTM
BEZAPRINT Blue RR	BEZAPRINT Navy RRM	BEZAPRINT Navy TR ³⁴
BEZAPRINT Turquoise GT	BEZAPRINT Green BS	BEZAPRINT Green BT
BEZAPRINT Green 2B	BEZAPRINT Olive Green BT ³⁴	BEZAPRINT Brown RP
BEZAPRINT Brown TM ³⁴	BEZAPRINT Grey BB ³⁴	BEZAPRINT Black DT ³⁴
BEZAPRINT Black DW ³⁴	BEZAPRINT Black BDC ³⁴	

16.2 BEZAFLUOR

BEZAFLUOR Violet BR

16.3 COLORMATCH

CM 102 Citron	CM 106 Yellow	CM 110 Golden Yellow
CM 180 Orange ³⁵	CM 200 Scarlet	CM 210 Red
CM 221 Carmine	CM 222 Marsred	CM 225 Dark Red
CM 240 Pink	CM 250 Fuchsia	CM 280 Violet
CM 300 Blue	CM 350 Navy	CM 360 Denim ³⁴
CM 380 Turquoise	CM 400 Green	CM 450 Light Green
CM 550 Brown	CM 700 Black ³⁴	CM 740 Black ³⁴

Please note that the combination of pigments containing Pigment Orange 13 and / or Pigment Orange 34 with pigments containing Pigment Black 7 is not recommended any more.

³⁴ contains Pigment Black 7

³⁵ contains Pigment Orange 13 and / or Pigment Orange 34

FLOCK FOR TEXTILE CLOTHING

17.1 FLOCK ADDITIVES

TUBASSIST T 526 W

17.2 FLOCK ADHESIVES

TUBVINYL 235 FF

TUBVINYL 235 MC WEISS ³⁶

TUBVINYL 236 H ³⁶

TUBVINYL 270 FF WHITE

TUBVINYL 235 FF WHITE

TUBVINYL 235 S ³⁶

TUBVINYL 260 H ³⁶

TUBVINYL 235 MC ³⁶

TUBVINYL 235 SL ³⁶

TUBVINYL 270 FF

17.3 FLOCK TRANSFER AUXILIARIES

TUBASSIST ELASTOMELT 90 F

TUBVINYL BOND ES ³⁷

TUBVINYL BOND FF WEISS

TUBASSIST MELT F

TUBVINYL BOND LF ³⁷

TUBVINYL ELASTOBOND ³⁷

TUBVINYL BOND

TUBVINYL BOND FF

SIZING ADHESIVES

18. SIZING ADHESIVES

TUBOFLEX PVA 80

TUBOMIX OCE

³⁶ Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.
³⁷ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

GARMENT AUXILIARIES

19.1 AMYLASES

BEISOL AFG-G

BEISOL T 2090-G

19.2 CELLULASES

BEIZYM ACE-G

BEIZYM HC-G

BEIZYM NGS-SB

BEIZYM BPN 300-G

BEIZYM N COLD

BEIZYM TOP H.C.

BEIZYM BPN-G

BEIZYM NGS

BEIZYM UL-G

19.3 LACCASES

DENIMCOL LAC-LRE

19.4 ANTIBACKSTAINING WASHING & DISPERSING AGENTS

DENIMCOL CLEAN-ABS NEU

DENIMCOL CLEAN-JWH

DENIMCOL DIS-DPE

DENIMCOL DIS-MIP ³⁸

DENIMCOL DIS-SMS ³⁸

DENIMCOL WASH-CPD

DENIMCOL WASH-JET

DENIMCOL WASH-SE

DENIMCOL WASH-WN

DENIMCOL CLEAN-CSM

DENIMCOL CLEAN-JWP

DENIMCOL DIS-ESW ³⁸

DENIMCOL DIS-NWS

DENIMCOL DIS-VD NEU

DENIMCOL WASH-DSU

DENIMCOL WASH-P WHITE

DENIMCOL WASH-TBU

DENIMCOL CLEAN-CUP

DENIMCOL CLEAN-SMX

DENIMCOL DIS-KEB

DENIMCOL DIS-OL

DENIMCOL WASH-42

DENIMCOL WASH-FDO NEU

DENIMCOL WASH-RGN

DENIMCOL WASH-VW

19.5 SOFTENERS

DENIMCOL SOFT-47 ³⁹

DENIMCOL SOFT-220

DENIMCOL SOFT-9270

DENIMCOL SOFT-KRE

DENIMCOL SOFT-PEN

DENIMCOL SOFT-RSK

DENIMCOL SOFT-VWS

DENIMCOL SOFT-64

DENIMCOL SOFT-2270

DENIMCOL SOFT-HWS

DENIMCOL SOFT-MIC

DENIMCOL SOFT-RGH

DENIMCOL SOFT-SI 70 ³⁹

DENIMCOL SOFT-66

DENIMCOL SOFT-4748

DENIMCOL SOFT-ISP

DENIMCOL SOFT-OHS ³⁹

DENIMCOL SOFT-RMG

DENIMCOL SOFT-SMF

19.6 RESIN FINISHING AGENTS

DENIMCOL RES-ABT

DENIMCOL RES-FS

DENIMCOL RES CCP-T ⁴⁰

DENIMCOL RES-TIO ⁴⁰

DENIMCOL RES-CCP ⁴⁰

DENIMCOL RES-ZF

³⁸ Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

³⁹ The product contains a small amount of octamethylcyclotetrasiloxane (D4) in its manufacturing recipe. Because D4 is a volatile substance and under usual processing conditions, the limit value < 1000 ppm according to H&M restrictions on the final fabric can be kept.

⁴⁰ Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.

GARMENT AUXILIARIES

19.7 AUXILIARIES FOR SPECIAL EFFECTS

DENIMCOL FIX-ICB CONC. ⁴¹	DENIMCOL SPEC TW BASE ⁴²	DENIMCOL SPEC VA 55
DENIMCOL SPEC-AF ⁴²	DENIMCOL SPEC-BIC	DENIMCOL SPEC-BIO
DENIMCOL SPEC-CPU	DENIMCOL SPEC-CRACK1 ⁴²	DENIMCOL SPEC-CRACK2
DENIMCOL SPEC-DAP	DENIMCOL SPEC-DC25 ⁴²	DENIMCOL SPEC-EPD
DENIMCOL SPEC-FAT 100 ⁴²	DENIMCOL SPEC-FIX 104 W	DENIMCOL SPEC-FIX FC ⁴³
DENIMCOL SPEC-FIX ML 55 ⁴⁴	DENIMCOL SPEC-FOAM	DENIMCOL SPEC-FTL
DENIMCOL SPEC-GD 200	DENIMCOL SPEC-GD 300	DENIMCOL SPEC-GDG ⁴²
DENIMCOL SPEC-GDX ⁴⁴	DENIMCOL SPEC-GOLD ⁴²	DENIMCOL SPEC-HEC
DENIMCOL SPEC-LAC 110 ⁴²	DENIMCOL SPEC-LUSTER ⁴²	DENIMCOL SPEC-MGR ⁴²
DENIMCOL SPEC-MS ⁴²	DENIMCOL SPEC-PERL ⁴²	DENIMCOL SPEC-PUS
DENIMCOL SPEC-RPD	DENIMCOL SPEC-TD 90	DENIMCOL SPEC-WEISS K 90

19.8 GARMENT DYE

DENIMCOL BINDER GF-C ⁴²	DENIMCOL BLANC-HA ⁴⁵	DENIMCOL BLANC-HA D3 ⁴⁵
DENIMCOL BLANC-HAS4 ⁴⁵	DENIMCOL F	DENIMCOL FIX-3005
DENIMCOL FIX-ACP	DENIMCOL FIX-ACP 200 %	DENIMCOL FIX-CTK
DENIMCOL FIX-FSN	DENIMCOL FIX-GF	DENIMCOL FIX-IN 35
DENIMCOL FIX-OS	DENIMCOL LEV-A	DENIMCOL LEV-M
DENIMCOL LEV-PF	DENIMCOL LEV-SBFN	DENIMCOL PCS
DENIMCOL SEL 200	DENIMCOL XRN PEARLS	

19.9 OTHER GARMENT AUXILIARIES

DENIMCOL AR	DENIMCOL BINDER-CA ⁴²	DENIMCOL BINDER-PAC ⁴²
DENIMCOL BINDER-RE NEU	DENIMCOL BOOST CL	DENIMCOL BOOST PP
DENIMCOL BSN	DENIMCOL BUFFER-KP	DENIMCOL BUFFER-NVMV 200
DENIMCOL CDA	DENIMCOL GAL	DENIMCOL HV
DENIMCOL LOK	DENIMCOL LUB-109	DENIMCOL LUB-BPA
DENIMCOL LUB-TCC	DENIMCOL DIS-MR	DENIMCOL NCD
DENIMCOL PEX	DENIMCOL SD	organIQ ASSIST
organIQ BLEACH T	organIQ BUFFER AO	

⁴¹ The product contains a small amount of hexamethylene diisocyanate (HMDI) in its recipe. According to our estimation a limit value of < 1 ppm can be obtained with regard to the applied quantity under suitable production conditions. Our estimation notwithstanding, on basis of empirical values, we would like to inform you that the content of HMDI on the fabric depends very much on the applied product, the processing conditions and the applied product quantity. The exact content on the fabric can be determined only by measuring it directly on the production material.

⁴² Fabrics finished only with this product show a formaldehyde value of < 16 ppm, if proper production parameters are kept.

⁴³ Please note that the product is based on a blocked isocyanate polymer. We expect that no free or blocked isocyanates above H&M limit can be found on finished textile, if used according to our technical recommendations.

⁴⁴ Fabrics finished only with this product show a formaldehyde value of < 75 ppm, if proper production parameters are kept.

⁴⁵ The product contains a small amount of aniline as an impurity in its recipe. According to our estimation a limit value of < 10 ppm can be obtained with regard to the applied quantity under suitable production conditions. Therefore the limit value according to the H&M restrictions can be kept.



CHT
SMART CHEMISTRY
WITH CHARACTER.

CHT Germany GmbH | Bismarckstraße 102 | 72072 Tübingen | Germany

Phone +49 7071 154-0 | Fax +49 7071 154-290 | www.cht.com | info@cht.com

CHT Switzerland AG | Kriessernstrasse 20 | 9462 Montlingen | Switzerland

Phone +41 71 7638811 | Fax +41 71 7638888 | www.cht.com | info.switzerland@cht.com