



ZDHC – POSITIVE
PRODUCT LIST

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Golden
TECHNOLOGY



ZDHC – POSITIVE LIST (Zero Discharge of Hazardous Chemicals)

In 2011, a group of major apparel and footwear brands and retailers made a shared commitment to help lead the industry towards zero discharge of hazardous chemicals by 2020.

As a part of the commitment and first steps towards ZDHC, the group of brands published a Joint Roadmap in November 2011. The document demonstrates the group's collaborative efforts in leading the apparel and footwear industry towards ZDHC (Zero Discharge of Hazardous Chemicals) for all products across all pathways by 2020.

The Joint Roadmap is highly ambitious; it is a plan that sets a new standard of environmental performance for the global apparel and footwear industry. It includes specific commitments and timelines to realize this shared goal.

The current Signatory Members welcome additional members and look forward to continuing to receive the support from all stakeholders and constituencies as needed for the Joint Roadmap to be successful. Signatories of the Joint Roadmap are the owners and managers of it.

Ensuring transparency, the group of brands will report regularly and publicly on the progress against the published Joint Roadmap timeline (annually from 2013-2020). All other information and news coming from the activities under this ZDHC Programme will also be communicated through this website: <http://www.roadmaptozero.com>

The Golden Tecnologia is committed to produce no unnecessary environmental damage in the textile industry, people and the communities that surround it.

In support of the "Towards Zero" in the discharge of hazardous chemicals, Golden Tecnologia has developed a list of dyes and chemicals that do not contain any of these chemicals priority groups and therefore can be used to provide textiles for companies that follow this orientation.

The 11 groups of priority chemicals are:

- APEOs / NPEOs
- Azo dyes [1]
- Brominated and chlorinated flame retardants
- Chlorinated solvents
- Chlorobenzenes
- Chlorophenols
- Heavy metals [cadmium, lead, mercury, chromium (VI)]
- Organotin compounds, e.g. TBT (tributyltin)
- Phthalates (ortho-phthalates)
- Perfluorinated chemicals (PFCs)
- Short-chained chlorinated paraffins (SCCP)

[1] Those Azo dyes that may release carcinogenic amines as defined in Annex XVII of REACH

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At products for oil, water and stain repellent finish of textiles, under trade name GOLDGUARD, these products contain perfluorinated chemicals as active ingredients. In line with the objective of eliminating products associated with PFOS and PFOA, are already engaged proactively.

Our products based on fluorochemicals contained in this list do not use or are made with PFOA in the manufacturing process. However, PFOA is an involuntary reaction subproduct which is present in low concentrations in some of these products. As part of our overall commitment to product management, since 2012, Golden Tecnologia is selling these products and removes traces of PFOA and PFOA precursors direct in our products.

Our objective is to have only textile products showing PFOA contents below LOQ (limit of quantification), which is defined as 2 ppm (Parts per Million) according to a peer-reviewed, published method [The Journal of Chromatographic Science - *JCS* 2006, 110 (1-2), 117-124)].

Our products GOLDGUARD listed in this document are based on shortchain chemistry that cannot break down to PFOA and provide a step-change reduction in trace impurities below the limit of detection.

We also have additives GOLDGUARD line 100% free of FC (fluorocarbons), such as: GOLDGUARD ALP, GOLDGUARD BOOSTER, GOLDGUARD FF and HeiQ BARRIER ECO.

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PRETREATMENT / DYEING

Goldpal AND	Goldpal SB
Goldblend DAD	Goldpal TMZ
Goldcom INP	Goldpal TQE-M
Goldcom TA	Goldpal SYN
Goldfoam BOM	Goldpret FC
Goldlav ESN	Goldpret SF
Goldlub AQS	Goldpret WTP
Goldlub LM	Goldquest NS
Goldmul BV	Goldperse MCF
Goldmul BV 100%	Goldperse NG
Goldpal BSJ	Goldperse OLE
Goldpal ESL	Goldperse UG
Goldpal ESS	Goldstab OX
Goldpal INP	Goldwash LFC
Goldpal LUB	Goldzima DAS
Goldpal NRA	Goldzima HPX
Goldpal OLE	Goldfast AK
Goldwet RB	Goldfoam OBSF (F17)

DYEING / CLEANING

Goldgen PES Conc.	Goldwash LFC
Goldgen PES	Goldgen ABP
Goldgen RM	Goldstab BS
Goldgen PA	Goldwash HR
Goldpret FC	Goldacid SACA Conc.
Goldmul BV	Goldperse OLE
Goldpret SF	Goldperse MCF
Goldpur MRO 200%	Goldfoam BOM
Goldwash EC	Goldwash ECN

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DYE CLEAN®

Goldpal CO-EA	Goldperse UG-EA
Goldlub AQS	Goldlub AR-EA
Goldperse CM-EA	Goldfit NB-EA

OPTICAL BRIGHTNERS

Goldblanc BHA	Goldblanc E3BD
Goldblanc BHB	Goldblanc EVD
Goldblanc BH2B	Goldblanc E2VD
Goldblanc BHZB	Goldblanc E3VD
Goldblanc BHV	Goldblanc PA Neutro Conc.
Goldblanc BH2V	Goldblanc PAB New
Goldblanc BHZV	Goldblanc PABX
Goldblanc WP	Goldblanc PAV New
Goldblanc BMA	Goldblanc PAV Plus
Goldblanc BMV	Goldblanc TPAN
Goldblanc EDA	Goldblanc PAN-B
Goldblanc EBD	Goldblanc PAN-V
Goldblanc E2BD	Goldwhite SB-2
Goldpret DS	Goldpret WT
Goldwhite SB-2	Goldwhite E93

DYESTUFF

Amarelo BG-4G	Cast. Amar. Disp S-2R
Amarelo BG-R	Castanho Disp. SE-R
Amarelo Disp. SE-G	Laranja BG 2RN
Amarelo Disperso S-6G	Laranja Disp. S-G
Amarelo Fluor. Cationico 10GFF 300%	Neutral Black SR-L
Amarelo Ouro Cation. GL EC 250%	Preto D-SB
Azul BG-2G	Rubi Disp. S-G 175%
Azul Cationico GR 250%	Vermelho BG-B
Azul DC-2G	Vermelho Cationico GRL 250%
Azul Disp E-R 150%	Vermelho Disp. E-2BL
Azul Disperso SE-3RT	Vermelho Disp. SE-3B
Azul Mar Disp. S-2GRL	Vermelho Fluor. Cationico X-SGN 250%
Azul Turq Disp S-BG	Violeta Disper S 2R

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TEXTILE EFFECTS	
Fast Dry CEL	Goldguard ALP
Fast Dry PA	Goldguard Booster
Fast Dry PES	Goldguard F66
Goldcare ALOE	Goldguard FF
Goldcare FIT	Goldguard FN
Goldcare MU	Goldsoft LH Foam
Goldfoamer H	Goldsoft LC Foam (F03)
Goldfresh BR	Heiq Adaptive AC-04
Goldfresh DSM Conc.	Heiq Barrier ECO
Goldfresh FBL	Heiq Soft SHF
Goldflam Coat MM	Insecta EC12
Goldflam SU	Insecta EC50
Goldflam SYN	Insecta R-CPL
Linha Thermic	Insecta R-SDN
Golden Easy Care	Linha R-Esencial

FINISHING	
Goldsoft COB	Goldpret DS
Goldsoft WB	Goldpret EGN
Goldsoft CAT	Goldpret WTP
Goldsoft CP	Goldfinish AF
Goldsoft CNI	Goldfinish IMP
Goldsoft CLN	Goldwet RB
Goldsoft HID	Goldlub FI 50%
Goldsoft MIC	Goldpal LUB
Goldsoft HH	Gollub OPC

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PRINTING

Goldcryn ECP	Goldprint Prata HD
Goldcoat MT-AM	Goldprint TRF
Goldmul BV	Goldprint TRT-L
Goldprint DIG	Goldred Agent
Goldprint DR	Goldsoft COB
Goldprint DSC	Goldspere MCF
Goldprint Pérola	Goldstab P
Nat TAM	Goldwash EC
Goldwash ECN	

SMART GREEN BLEACH

Goldgreen ACID	Goldgreen ALKALI
Goldgreen BIO	