



**ZDHC**

*Zero Discharge Hazardous Chemicals*



**ACHITEX MINERVA**



## **ZDCH MRSL (Manufacturing Restricted Substances List) Version 1.1 - December 2015.**

Achitex Minerva, aware that production processes and the final use of the chemicals produced have an impact on people and the environment, makes compatible economic growth one of its core values. It is therefore strongly committed to the development of innovative products that provide environmentally compatible and acceptable eco-toxicological characteristics, in compliance with the strictest international standards, during both production and application.

The Joint Roadmap of the Zero Discharge of Hazardous Chemicals (ZDHC) initiative is the answer to the Greenpeace Detox campaign of some large companies within global apparel and footwear industry (further information available under [www.roadmaptozero.com](http://www.roadmaptozero.com)).

The ZDHC MRSL is a list of hazardous substances potentially used and discharged into the environment during manufacturing of textiles and clothing and related processes. Restricted substances and groups of substances according to MRSL of ZDHC are:

- Alkylphenols (AP) and Alkylphenol Ethoxylates (APEO)
- Chlorobenzenes & Chlorotoluenes
- Chlorophenols
- Dyes - Azo dyes that can undergo reductive cleavage of the azo bond to release carcinogenic amines as defined in Annex XVII of REACH
- Dyes - Navy Blue Colorant
- Dyes - (arcinogenic or Equivalent Concern
- Dyes - Disperse (Sensitizing)
- Brominated and chlorinated flame retardants
- Glycols
- Halogenated solvents
- Organotin compounds
- Polycyclic aromatic hydrocarbons (PAHs)
- Perfluorinated and Polyfluorinated Chemicals (PFCs)
- Phthalates (including all other esters of ortho-phthalic acid)
- Total Heavy Metals
- Volatile organic compounds (VOC)

Based on the information available to us from our raw materials suppliers, and – where appropriate – on our monitoring routines, the products listed in this “List of compliant products” do not contain any of the substances or group of substances as intentionally added raw material or as impurities above the limit specified in the MRSL of ZDHC.

This list contains only selected products from Achitex Minerva’s product range. Please do not hesitate to contact us in order to check the individual compliance status of any unlisted product of our product range.

We trust that this information will be of assistance to all our partners in the textile and clothing supply chain.

With best regards

ACHITEXMINERVA SpA  
Product Safety & Regulatory

*The above is based on our general experience and tests on samples of typical manufacture. It does not absolve the user from making own tests and controls to ensure that his finished textile article conforms to the requirements he has to meet.*



## Spinning

ACHIFIL AL  
ACHIFIL D 100  
ACHIFIL ODA  
ACHIFIL R 345  
ACHIFIL STO  
ACHIFIL TXN  
ACHISPAN 110 N  
ACHISTAT 073 F  
ACHISTAT AL 30  
ACHISTAT CB2  
ACHISTAT HF 50

ACHISTAT K  
ACHISTAT OCV  
ACHISTAT QR  
AVIFIL NFD 94  
AVIFIL NPY 82  
AVIFIL PA 515  
AVIFIL PM  
AVIFIL TWDS  
CONALUBE ECO 100  
COROIL NGL  
DEFILAN EM 35

DEFILAN SC  
DEFILAN VP 90  
DEFILAN W 301  
ORAFIL AT  
ORAFIL EB 5  
ORAFIL MS  
TECHSPIN 75  
TECHSPIN 80  
TECHSPIN CT 2  
TECHSPIN PHS 120

## Sizing

ACHIFIX PD  
ACHISIZE 8  
ACHISIZE CV 105  
ACHISIZE CV 90  
ACHISIZE CZ  
ACHISIZE ES 20  
ACHISIZE ES 7  
ACHISIZE F 105  
ACHISIZE F 170  
ACHISIZE F 470

ACHISIZE I4  
ACHISIZE ITV  
ACHISIZE J 120  
ACHISIZE J 130  
ACHISIZE J 150 B  
ACHISIZE MCZ  
ACHISIZE PA 100  
ACHISIZE SAH  
ACHISIZE V3  
ACHISIZE VD 40 K

ACHISIZE VD 50  
ACHISIZE W LIA 100  
ACHISIZE W V 200  
ACHITINA IMC  
ACHIWAX P 45  
ACHIWAX PV OH  
ACHIWAX RF  
BINDER 67  
CROSSLINKER 59

## Auxiliaries for Preparation

ACHITERGE 64 LIQ  
ACHITERGE F 47  
ACHITERGE NS N  
ACHITERGE PA  
ACHITERGE S EXTRA  
ACHITERGE S LIQ  
ACHITERGE TB  
ACHITERGE TX  
ACHITFLOW L  
BIOLAM  
DEFOAMER AC  
DEFOAMER AC LIQ  
DEFOAMER BS  
DEFOAMER BS SUPER  
DEFOAMER EF  
DEFOAMER FC J  
DEFOAMER US  
DEFOAMER VO  
ECOBLEACH  
ECOLASE FL HC

ECOLASE HN  
ECOLASE HRM  
ECOLASE LF  
ECOLASE PE  
ECOPON 4711  
ECOPON APL  
ECOPON BTK  
ECOPON IBS  
ECOPON JK NEW  
ECOPON LO  
ECOPON LT  
ECOPON OW 50  
ECOPON OW 60 CONC  
ECOPON PC  
ECOPON SOL  
ECOPON SOL C  
ECOPON STA LIQ  
ECOSTONE L  
ECOSTONE NEUTRAL LIQ  
EMULTERGE OIL

ENTKAL CT LIQ  
ENTKAL FE LIQ EXTRA  
LAVAPRINT 47  
LAVAPRINT BL NT  
LAVAPRINT LF  
LAVAPRINT MF  
LAVAPRINT PC  
LAVAPRINT SMA  
LAVAPRINT STP  
NOVAFIX NPN T  
NOVAFIX PN 119  
NOVAFOAM NS 911 V  
NOVALIFE N 813  
NOVALUBE AM  
PLEXMET 2H  
PLEXMET 4H  
PLEXMET FE  
PLEXMET KDM  
PLEXMET TLW  
REDOXONE OK LIQ



SOAP SG 724  
STABILOXI KC  
STABILOXI LG  
STABILOXI OTN CONC

STABILOXI PG  
TEXLUBE EXTRA  
TEXLUBE EXTRA LIQ  
TEXLUBE IDRO

TEXLUBE LS 51  
TEXLUBE TF CONC

## Auxiliaries for Dyeing

ACHIFIX ECO LIQ  
ACHIFIX GMX  
ACHIFIX IND FF  
ACHIFIX MB  
ACHIFIX PA  
ACHIFIX SL LIQ  
ACHIFIX STRONG  
ACHINYL MEA  
ACHITEGAL 314 NEW  
ACHITEGAL 619  
ACHITEGAL A  
ACHITEGAL A 12  
ACHITEGAL C 50 CONC  
ACHITEGAL DRT  
ACHITEGAL L  
ACHITEGAL P 2020  
ACHITEGAL TBG  
ACHITEGAL TFX  
ACHITERGE NA LIQ  
ACHITINA DS  
ACHITINA F 100%

ACHITINA F 200%  
CELAPON CRN CONC  
DISPERSANT O 12  
DISPERSANT SP  
ECOPON DG  
ECOPON LR  
IMBIGEN NRW 3  
KALTEX A  
KALTEX C  
LAVAPAL N 800 B1  
MERCERIZING MF  
NOVAFOAM 822  
OXITON M 11  
OXITON S LIQ  
OXITON S P  
OXITON S P 2  
PLEXMET AK  
PLEXMET AK LIQ  
PLEXMET BIO CONC  
PLEXMET BIO LIQ  
PLEXMET HN

PLEXMET HP  
PLEXMET RE N  
PLEXMET SR  
PLEXMET SR W  
PLEXMET SRN  
POLIACID ESP  
POLIACID GS CONC  
POLIACID GS EC  
POLIACID GS X  
POLIACID GSM EC  
POLIACID VAX  
REDOXONE DB  
REDOXONE PRINT  
REDOXONE R 10  
SETALAN 592 LIQ  
SETALAN LT  
UNIGAL PE 57  
UNILAM AS 25  
UNILAM PE 1049

## Auxiliaries for Finishing

ACCELERATING 558  
ACHIFIX PV 4  
ACHITSOFT AI  
ACHITSOFT CL LIQ  
ACHITSOFT CN  
ACHITSOFT MCA  
ACHITSOFT SI  
ACHITSOFT SK  
ACHITSOFT TE  
ACHITSOFT WP  
CATALYST LT CONC  
CERANTEX PS LIQ  
ECOPON LP  
ECOPON LP LIQ  
FINISH 36 L  
FINISH 36 M CONC  
FINISH 40  
FINISH 80 L  
FINISH AC CONC

FINISH AL 16  
FINISH ALOE VERA  
FINISH C 203  
FINISH CFR  
FINISH EC 100  
FINISH IN  
FINISH MEL  
FINISH MHI  
FINISH N 46  
FINISH NFL  
FINISH NSJ  
FINISH P 29  
FINISH PL LIQ  
FINISH PNI  
FINISH S 18  
FINISH S 50  
FINISH SHT  
FINISH SILK  
FINISH SJ

FINISH TCF  
FINISH TCF LIQ  
FINISH TT  
FINISH VS  
FINISH VP 4 NEW  
GLIOFIX DMA EXTRA  
GLIOFIX LFC EXTRA  
MINERPRIMER INK A  
MINERPRIMER INK P DARK  
MINERPRIMER INK P LIGHT  
MINERPRIMER INK R  
MINERPRIMER READY A PA  
MINERPRIMER READY R  
MORBIGEN S SPECIAL  
MORBIGEN SME  
NOVAFULL ST  
NOVAFULL STL  
NOVAFULL WTL  
POLIFINISH PO 40



STABILAN GRA CONC  
STABILAN MM

STABILAN NN  
STABILAN TN

## Printing

ACHIFIX MBH CONC	GOLD BINDER NTI	MINERPRINT NAVY BLUE 7RF HC
ANTI HALO CO 20 N	HYDROPHIL M	MINERPRINT NAVY BLUE LB
ANTIFERMENTATIVE	LACQUER GB	MINERPRINT NAVY BLUE LR M
ANTIFOAM F	LACQUER SH	MINERPRINT NAVY BLUE RM N HC
ANTIFOAM W CONC	LUBRILAC AP	MINERPRINT OLIVE GREEN 2KN
BASE COROLAN	LUBRILAC ZN	MINERPRINT ORANGE 3RL EC
BINDER 521	MINERBOND GP	MINERPRINT ORANGE FL HC
BINDER 521 S	MINERFOAM BI	MINERPRINT ORANGE FLUO 2G EC
BINDER ACM	MINERFOAM DKA	MINERPRINT ORANGE FLUO NFO EC
BINDER CREPON S	MINERFOAM DKV	MINERPRINT PINK 5BTL HC
BINDER FLITTER	MINERFOAM FL	MINERPRINT PINK FLUO FB EC
BINDER FLOCK E	MINERFOAM NFO	MINERPRINT PINK FLUO NFO EC
BINDER L4	MINERFOAM SR SPECIAL	MINERPRINT RED BB HC
BINDER NFO	MINERGLUE 92	MINERPRINT RED BPV HC
BINDER PADDING FM N	MINERGLUE RP	MINERPRINT RED BTL HC
BINDER PADDING NFO	MINERGLUE ST 710	MINERPRINT RED FLUO G EC
BINDER PNA	MINERLUX NEW	MINERPRINT RED FLUO NFO EC
BINDER SE	MINERPRINT BLACK CF HC	MINERPRINT RED LBT
BINDER SE CONC	MINERPRINT BLACK F HC	MINERPRINT RED LC
BINDER U 50	MINERPRINT BLUE 3G HC	MINERPRINT RED RTL HC
BINDER U 50 D	MINERPRINT BLUE B HC	MINERPRINT ROYAL BLUE R HC
BINDER WST	MINERPRINT BLUE CF EC	MINERPRINT RUBINE 3BF HC
BRILLIANT LACQUER HF	MINERPRINT BLUE FLUO B CONC	MINERPRINT SCARLET ERS HC
BRILLIANT LACQUER NT	MINERPRINT BLUE LBS	MINERPRINT SCARLET LFR
CLEAR CP	MINERPRINT BLUE LGS	MINERPRINT SCARLET TRL HC
CLEAR F30	MINERPRINT BROWN GTM HC	MINERPRINT TURQUOISE 4G HC
CLEAR MC	MINERPRINT BROWN LG	MINERPRINT TURQUOISE 5GT HC
CLEAR MCS	MINERPRINT BROWN LR	MINERPRINT VIOLET 2BTL HC
CLEAR SP4	MINERPRINT BROWN RBT N HC	MINERPRINT VIOLET LRM
COMPOUND SR	MINERPRINT BROWN RM HC	MINERPRINT VIOLET RED EB HC
COVERING AGENT P	MINERPRINT BROWN RRT 200	MINERPRINT VIOLET RL EC
CROSSLINKER AF	MINERPRINT DARK BROWN LTT	MINERPRINT YELLOW 10GL HC
CROSSLINKER M	MINERPRINT GOLDEN YELLOW 3R HC	MINERPRINT YELLOW 10GTL HC
DETERGENT BS	MINERPRINT GOLDEN YELLOW L3R	MINERPRINT YELLOW 2G HC
DEVOPRINT B	MINERPRINT GOLDEN YELLOW LRR	MINERPRINT YELLOW 3GL HC
DISCHARGE CLEAR	MINERPRINT GOLDEN YELLOW RF EC	MINERPRINT YELLOW FLUO 10G EC
DISPERSANT P	MINERPRINT GOLDEN YELLOW RF HC	MINERPRINT YELLOW FLUO NFO EC
EMULSIFIER DF	MINERPRINT GREEN 3GL HC	MINERPRINT YELLOW GN HC
EMULSIFIER LS	MINERPRINT GREEN 534	MINERPRINT YELLOW K HC
EMULSIFIER NP N	MINERPRINT GREEN B HC	MINERSINT 190
FINISH S	MINERPRINT GREEN BBN HC	MINERSINT MR
FIXATOR CN CONC	MINERPRINT GREEN FLUO B EC	MINERSTAR BRONZE
FIXATOR LF	MINERPRINT GREEN FLUO NFO EC	MINERSTAR GOLD
FIXATOR NFO	MINERPRINT GREEN GG CONC	MINERSTAR IRIS BLUE
GLOSS PASTE	MINERPRINT GREY BT HC	MINERSTAR IRIS GOLD
GOLD BINDER NFO	MINERPRINT NAVY BLUE 5RF HC	MINERSTAR IRIS RED



MINERSTAR NEUTRAL I  
MINERSTAR SILVER  
MINERSTAR TURQUOISE  
MINERSTAR VIOLET  
NEUTRAL PASTE MI  
PACK PRINT  
PACK PRINT NFI  
PASTE BICOLORED  
PASTE FLOCK NFO  
PASTE GL  
PASTE GLT  
PASTE METAL M  
PASTE SC  
PASTE WST S SOFT  
PERLAMIN COPPER MA  
PERLAMIN GOLD R  
PERLAMIN MA  
PERLAMIN MT  
PERLAMIN RP

PRINTOFIN SUPRA  
RESIN A  
RESIN RD  
SINERGIL BT N  
SINERGIL N 30  
SOFT LACQUER NFI  
SOFT PASTE CMX  
SOFT PASTE NFO  
SOFT PASTE NS  
SOFT PASTE SD  
SOFT WHITE C  
SOFTENER A 95  
SOFTENER S  
SUBLIPRIMER L LIQ  
SUBLIPRIMER M  
SUPERGLOSS M  
THICKENER E  
THICKENER SF N  
THINNER

TRANSPARENT FDE  
WHITE 24  
WHITE 24049  
WHITE 45 I  
WHITE 51  
WHITE 60  
WHITE ACT  
WHITE CA R  
WHITE CB  
WHITE EGN  
WHITE ELX  
WHITE FM  
WHITE LT  
WHITE NFO  
WHITE PFN  
WHITE SB  
WHITE SC

## Screen Printing

BACKGROUND ELASTIC  
BASE FPW  
BLACK PA ND  
BLUE PA ND  
CATALYST AT5  
COVERING AGENT ELASTIL FG  
COVERING AGENT 110  
COVERING AGENT SR ND  
COVERING AGENT SR301  
DISCHARGE BASE ECO  
DISCHARGE ECO  
DISCHARGE FPW  
DISCHARGE SRL  
DISCHARGE WHITE SR  
EMULSION SR KF  
GOLD YELLOW PA ND  
GREEN PA ND  
MARBORO RED PA ND  
MINERSIL BLACK  
MINERSIL CAT B  
MINERSIL FOAM  
MINERSIL GREEN FLUO  
MINERSIL ORANGE FLUO  
MINERSIL PINK FLUO

MINERSIL RED FLUO  
MINERSIL TR A  
MINERSIL WHITE A  
MINERSIL YELLOW FLUO  
NEUTRAL PLAST  
PINK PA ND  
PLAST BASE EL  
PLAST BASE G  
PLAST BASE HT  
PLAST BASE TR  
PLAST BLUE PK  
PLAST COVERING  
PLAST DROP  
PLAST ECOWHITE  
PLAST GREEN EXTRA  
PLAST LUBRILAC  
PLAST PEARL  
PLAST RED PK  
PLAST WHITE AG  
PLAST WHITE EL  
PLAST WHITE FLASH  
PLAST WHITE LF  
PLAST YELLOW PK  
PLASTFOAM

REDUCING AGENT Z  
RUBY RED PA ND  
SOFT DISCHARGE  
SOFT PASTE 110  
SOFT PASTE AT5  
SOFT PASTE LBR  
TRANSPARENT ELASTIL FGI  
TRANSPARENT CRACKING SR  
TRANSPARENT SRI 301  
TRANSPARENT SR ND  
VIOLET PA ND  
WHITE 110  
WHITE CRACKING SR  
WHITE ELASTIC EXTRA  
WHITE ELASTIL FG  
WHITE FLEX  
WHITE FPW  
WHITE SR 301  
WHITE SR KF  
WHITE SR ND  
WHITE SR ND EXTRA  
WHITE SUPERFLEX M  
YELLOW PA ND



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