



## commitment to the Zero Discharge of Hazardous Chemicals (ZDHC)

### Manufacturing Restricted Substance List.

In the Zero Discharge of Hazardous Chemicals (ZDHC) joint Roadmap, Version 1.1 Dec 2015, 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 substance 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.

Restricted substances and group of substances according to MRSL of ZDHC (details on chemical and individual limits see MRSL) are

- Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)
- Chlorobenzenes & chlorotoluenes
- Chlorophenols
- Dyes – Azo (Forming Restricted Amines)<sup>1</sup>
- Dyes – Navy Blue colorant.
- Dyes – Carcinogenic or Equivalent Concern
- Dyes – Disperse (Sensitizing)<sup>1</sup>
- Flame Retardants <sup>1</sup>
- Glycols <sup>1</sup>
- Halogenated Solvents
- Organotin Compounds
- Polycyclic Aromatic hydrocarbons (PAHs)



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- Perfluorinated and polyfluorinated Chemicals (PFCs)
- Phthalates – including all other esters of other – phthalic acid
- Total heavy metals
- Volatile Organic Compound (VOC)<sup>1</sup>

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 contain any

Of the substances or group of substances (i) as internationally added raw materials or (ii) as impurities above the limit specified in the MRSL 2 (current version:1.1 Dec 2015) of ZDHC. 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 Shuncheer enterprise Corporation. World 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 the MRSL 2 (current version:1.1 Dec 2015)

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SHUN CHEER ENTERPRISE CORPORATION

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## SHUNCHEER POSITIVE LIST: TOWARDS ZDHC MRSL

### PRETREATMENT AUXILIARIES

SHUNSOL SCL	SHNTEX WBC
SHUNSOL APC	SHUNTEX DBC
SHUNSOL NW	SHUNTEX UFB
SHUNSOL JDSA	SHUNSOFT LUB
SHUNSOL DRA	SHUNSOFT BF
SHUNSOL XTD	SHUNTEX CHT

### DYEING AUXILIARIES

SHUNTEX DES	SHNTSOFT BF
SHUNTEX DES N	SHUNTEX FLO
SHUNTEX XPA	SHUNTEX RSL
SHUNTEX DBC	SHUNTEX XMA
SHUNFIX EC	SHUNTEX EMA
SHUNTEX RS	SHUNFIX RDC
SHUNTON PE	SHUNTON LPF

### SOFTENER FINISHING AUXILIARIES

SHUNSOFT AWS	SHNTSOFT HSF
SHUNSOFT AEFS	SHUNSOFT LWS
SHUNSOFT NCL	SHUNFIX HCS
SHUNSOFT ALM	SHUNTEX DCO
SHUNSOFT ASM	SHUNSOL MPO
SHUNSOFT ASF	SHUNSOL RPO