



Brief introduction of ZDHC Programme for Apparel & Footwear

2014 MANUFACTURING
RESTRICTED
SUBSTANCES
LIST | JOINT ROADMAP
DELIVERABLE

Ø ZDHC
ZERO DISCHARGE
OF HAZARDOUS
CHEMICALS PROGRAMME

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ZDHC Programme

In 2011, the **Zero Discharge of Hazardous Chemicals (ZDHC) Programme** formed to catalyse positive change in the discharge of hazardous chemicals across the product life cycle. Given the challenge of driving industry change, we will only succeed in achieving the vision and goals of the ZDHC Joint Roadmap if we work together.

The ZDHC Joint Roadmap

The **ZDHC Joint Roadmap** is an ambitious programme that envisions an apparel and footwear industry that delivers high quality products, using safe chemistries, operating in ways that keep communities free from unintended, downstream environmental impacts. The ZDHC Programme and its multi-stakeholder group of partners will transform the global apparel and footwear industry by improving environmental performance and chemical safety; thereby delivering a safer and cleaner environment as we work towards zero discharge of hazardous chemicals in the life cycle of all products by 2020.

GREEN PRODUCT



ZDHC 2020 Goals

The ZDHC Programme is working towards achieving the following goals by 2020:

1. Elimination or substitution of hazardous chemicals in our members' products and their manufacture
2. Development of a transparent process to screen and eliminate hazardous chemicals in the apparel and footwear industry
3. Tools training and capacity building programmes in place to support the entire supply chain
4. Development of common, harmonised assessment tools to be used throughout the industry and clear guidelines on best practices available for all supply chain stakeholders
5. Development of a system of disclosure created in partnership with the supply chain, that allows communities and consumers to access information about potential exposures to chemicals
6. The entire system of suppliers, brands, governments, and NGOs is engaged and participating, innovating, and fulfilling their respective responsibilities to ensure the safe use of chemicals
7. Development of a transparent and continuous stakeholder engagement process, that helps build trust and ensures strong alignment amongst all parties.



Manufacturing Restricted Substances List (MRSL)

1	Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	NP, OP, NPEO, OPEO
2	Chlorobenzenes and Chlorotoluenes	TeCP, PCP
3	Chlorophenols	Refer to MRSL
4	Dyes – Azo (Forming Restricted Amines)	Refer to MRSL
5	Dyes – Navy Blue Colourant	Refer to MRSL
6	Dyes – Carcinogenic or Equivalent Concern	Refer to MRSL
7	Dyes – Disperse (Sensitizing)	Refer to MRSL
8	Flame Retardants	TCEP, DecaBDE, TRIS, PentaBDE, OctaBDE, BIS, TEPA, PBB, TBBPA, BBMP, TDCP, SCCP
9	Glycols	Refer to MRSL
10	Halogenated Solvents	Refer to MRSL
11	Organotin Compounds	DBT, DMT, MBT, MOT, DOT,, TCyHT, TOT, TPT, TBT, TMT, TPhT, TebT
12	Polycyclic Aromatic Hydrocarbons (PAHs)	Refer to MRSL
13	Perfluorinated and Polyfluorinated Chemicals (PFCs)	PFOS, PFOA
14	Phthalates - including all other esters of ortho-phthalic acid	DEHP, DMEP, DNOP, DIDP, DINP, DnHP, DBP, BBP, DNP, DEP, DPRP, DIBP, DCHP, DIOP, DHNUP, DIHP
15	Total Heavy Metals	As, Cd, Hg, Pb, CrVI
16	Volatile Organic Compounds (VOC)	Refer to MRSL

HCT Solution:

HCT can help apparel and footwear enterprises to achieve the goal of zero Discharge of Hazardous Chemicals by providing one-stop testing services and analytical scheme for hazardous substances listed in the MRSL, also, to achieve this goal, enterprises need to:

1. Strictly control the use of hazardous chemicals in the production process, establish a schedule for reducing the use of hazardous substances;
2. Create a chemical management system and a database containing clearly information about the chemicals;
3. Build a well communication channel with the suppliers and develop an alternative solution for the restricted substances together.