



Testing Services for Chemical & Colorant Manufacturers

ASSESS YOUR CHEMICAL RISKS AND BE SURE!!

- Screening of chemical and colorant formulations for the ZDHC MRSL
- Testing for GOTS criteria for input chemicals
- Safety Data Sheet (SDS) Authoring
- Substance Identification and Sameness Studies for REACH Registration
- Identification of organic compounds and Method Validation Studies

Dyes, Pigments and Textile Chemical Formulations need to conform to chemical restriction criteria of various eco-labels, legislation and global Brands & Retailers.

NimkarTek is your trusted partner to help you assess the risks in your chemical formulations and ensure that these challenges are met.

NimkarTek Detox Laboratory provides you following services:

1. Screening of chemical and colorant formulations for the ZDHC MRSL

The Zero Discharge of Hazardous Chemicals (ZDHC) Group of apparel & footwear brands have developed a 'Manufacturing Restricted Substances List' or MRSL which details 16 Chemical Groups and their analytes that are restricted from usage in input colorant and chemical formulations. Limit values for unintentional contaminations of these analytes must be complied with by chemical suppliers.

NimkarTek offers testing of following parameters for MRSL:

NP, OP, NPEO, OPEO

Heavy metals

Chlorophenols

Phthalates

PAHs

VOCs

Chlorobenzenes and Chlorotoluenes

Aryl amines from Azo dyes

SCCPs

Formaldehyde

2. Testing for GOTS criteria for input chemicals

The Global Organic Textile Standard (GOTS) standard lists chemical inputs that may (potentially) be used in conventional textile processing but that are explicitly banned or restricted for environmental and/or toxicological reasons in all processing stages of GOTS Goods.

NimkarTek offers testing of following parameters for GOTS certification of input chemicals:

Chlorobenzenes

Chlorophenols

Heavy metals

Phthalates

PAHs

SCCPs

AOX

Surfactants (NP, OP, NPEO, OPEO)

Aryl amines from Azo dyes

Algal growth inhibition (EC_{50})

Formaldehyde

COD

BOD

Ready and Inherent Biodegradability



Microwave Digestor



LC-MS



GC-MS



ICP-OES

NimkarTek Detox Laboratory provides you following services:

3. Safety Data Sheet (SDS) Authoring

SDS is a document that informs users about potential hazards in a chemical and instructions for safe handling and disposal. The Globally Harmonized System (GHS) and the EU Classification, Labelling and Packaging (CLP) has prescribed specific criteria for hazard classification and communication in an SDS.

NimkarTek provides SDS Authoring services as per GHS/CLP guidelines to ensure that your SDS is complete in all respects and meets global requirements for hazard communication.

NimkarTek Authoring Methodology



4. Substance Identification and Sameness Studies for REACH Registration

Registration of substances or mixtures for REACH is mandatory for exporters of chemicals of > 1 ton per annum to the EU Member States. This involves studying and reporting the composition, impurity profile and spectral and chromatographic data supporting the structure of the substance and establishing sameness to determine the most appropriate SIEF (Substance Information Exchange Forum) under REACH.

NimkarTek will:

- i. Perform analytical testing (in-house as well as part out-sourcing)
- ii. Analyze and interpret data
- iii. Prepare a mini dossier (as per Annex VI, Section 2 of REACH) which can be submitted to REACH authorities or your Only Representative (OR)

5. Identification of organic compounds and Method Validation Studies

Using our GC-MS, GC-Headspace and LC-MS equipment, we can provide identification and quantification of organic compounds in your formulation. Wherever required, method development studies can be undertaken for research purposes.

We are an ISO/IEC 17025:2005 accredited laboratory



About NimkarTek

NimkarTek provides holistic solutions in chemical management to all stakeholders in the textile, apparel, footwear and leather supply chain. We have pioneered an online training platform 'NOTES' that has helped to train more than 5000 people in 35 countries across the world on restricted substances and chemical management topics. We provide consultancy to Brands & their supply chain partners on implementation of Chemical Management Strategies. Our 'Detox Laboratory' helps garment exporters, fabric mills, garment laundries, printers and chemical manufacturers to assess and mitigate their chemical risks and conform to Brand and legal requirements.

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