

Session VI: Regulatory Compliance

Sustainable Manufacturing Approaches



Dr. Siva Rama Kumar Pariti

Senior Technical Marketing Officer, Sustainable Textile Solutions

Dr. Pariti obtained his B.Sc. (Tech.), M.Sc. (Tech.) and Ph.D. (Tech.) from UDCT in the field of Intermediates and Dyestuff Technology. He has been working with Sustainable Textile Solutions (STS) and Dystar Group for 10 years and is a member of their Senior Management Team. Dr. Siva's field experience is unparalleled. He engages with industries' stakeholders and has a track record of developing practical solutions to complex challenges. He is member, Advisory Board for ZDHC Academy and is an approved ZDHC Training Provider. He is also an approved Chemical Specialist Verifier and Trainer for Higg FEM 3.0. Dr. Pariti has conducted various Higg FEM 3.0 verifications.

Abstract

The current global concerns about environmental and increasingly demanding sustainability issues are irrevocably affecting the colorant manufacturing sector. Emission requirements are becoming stricter. The restricted chemicals list is growing and their permissible limits are becoming more stringent. Manufacturing firms, therefore, have to address various issues including input chemical selection, process optimisation, in process control, environmental degradation and resource scarcity. There are growing regulatory, commercial, and societal expectations that manufacturers need to understand and address in their supply chains. Most of these issues exist in a complex supply network beyond first-tier suppliers, so tackling these is challenging. Companies are also striving to become more transparent, improve sustainability and strengthen supply networks in order to reduce business risks – to brands, markets, supply chains, and operations.

The number of entities having their own list of restricted chemicals and a plan for phasing these out is increasing. Manufacturers need to ensure that these restricted chemicals are not being used or present in the formulation beyond a certain limit. Various methodologies are available to monitor and meet the constantly changing regulatory, retailer and NGO requirements.

This presentation will discuss methodologies and frameworks available to manufacturers such as lifecycle thinking, exposure assessment, technical/functional assessment, economic assessment, social impact assessment, biodegradability and recyclability assessments etc.