



Chemical Management Audit & Verification Services

TÜV Rheinland's end-to-end solutions help textiles and apparel businesses deal with the industry's biggest and most complex challenge

The textiles and apparel business has never been more challenging, especially when it comes to managing chemicals. It impacts the industry at every level – from factories to retailers sourcing products from hundreds, and sometimes thousands of suppliers. And, in today's informed and highly regulated markets, the consequences of making a mistake can be unimaginably expensive.

HOLISTIC CHEMICAL MANAGEMENT

TÜV Rheinland is different because we cover all sides of the discussion – from chemicals testing to production process analysis, regulatory compliance, customer and consumer requirements.

Designed with the industry's most recognized standards in mind – the Sustainable Apparel Coalition's (SAC) Higg Index and the Business Environmental Performance Initiative (BEPI) – TÜV Rheinland's Chemical Management Audit & Verification Services assesses:

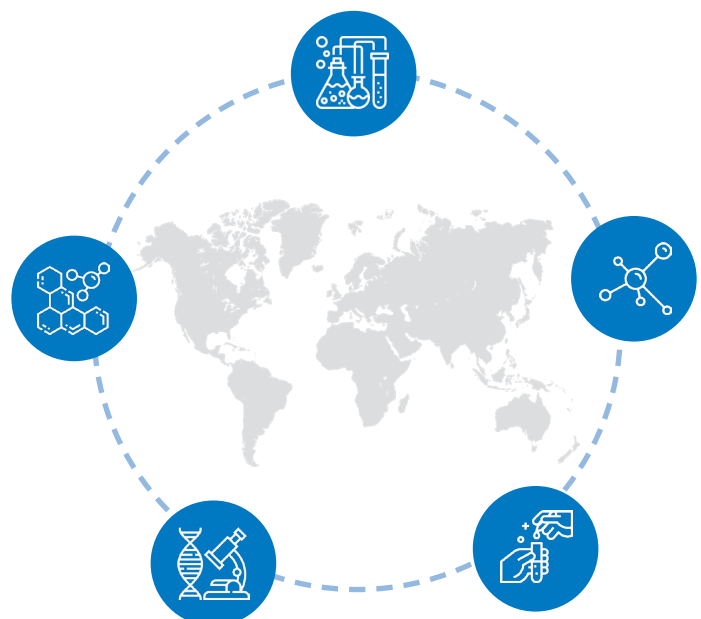
- Chemical and raw materials procurement
- Chemical and raw materials storage
- Chemical usage and production process management
- Quality management of semi-finished and final products
- Pollutant control and disposal
- Chemical management policies and compliance procedures
- Employee training and communication
- Compliance with MRSL & RSL requirement and Positive Chemistry List

We begin by determining whether a Chemical Management Policy is in place and being followed. Next, we find out if it complies with market

regulations and is flexible enough to accommodate customer requirements, which are often much higher. TÜV Rheinland experts verify how the chemicals are stored and used, covering everything from temperatures to mix ratios and dilution directions, which can have harmful side-effects if not followed precisely. Even measuring scoops and buckets are inspected to avoid mixing chemicals and accidentally creating harmful effects.

It is intense, but it can also be fast, taking as little as two days for factories with 1,000 employees or less, and three days for facilities with more than 1,000. It all adds up to one of the industry's most comprehensive and effective customer Audit & Verification solutions.

GLOBAL COMPETENCIES FOR SAC HIGG FEM AND BEPI



CASE STUDY

Sniffing out sub-standard shoes

When a major EU retailer found 30% of its shoe shipments were being stopped at ports due to high VOC levels, the three-day ventilation process created expensive delays. It also highlighted possible health risks at the production facility and potential reputation damage.



The retailer took action by engaging TÜV Rheinland to conduct a 1-Day Quick Scan Audit involving chemical mapping, procurement evaluation and traceability. The findings were used to determine which chemicals and processes were at fault, and to develop a methodology to prevent recurrence. Areas for follow-up audits to ensure policy compliance were also pinpointed.

SUSTAINABLE APPAREL COALITION (SAC) HIGG INDEX



Many apparel, footwear and textile industry buyers and manufacturers around the world rely on the Sustainable Apparel Coalition's (SAC) Higg Index – with its seven-point Facility Environmental Module (FEM) – to assess the status of chemical management practices in their supply chain, and guide them on making improvements.

TÜV Rheinland's SAC Higg FEM chemical specialist verifiers validate the factory's self-assessment scores to help with benchmarking and measuring progress, using the SAC's own methodology to verify self-assessment scores and issue an Performance Improvement Plan (PIP).

As a contributing member of the SAC, we are heavily involved with public training and assessment activities related to the Higg FEM, empowering businesses

to make meaningful improvements that protect the well-being of factory workers, local communities, consumers and the environment.

BUSINESS ENVIRONMENTAL PERFORMANCE INITIATIVE (BEPI)



Another major chemical management standard is the amfori* Business Environmental Performance Initiative (BEPI). This practical framework covers 11 separate environmental performance areas, ranging from energy use and greenhouse gases to chemical management.

A clear four-step approach enables companies to drive continuous improvement through supply chain mapping and analysis, improvement work and progress monitoring. TÜV Rheinland's BEPI-qualified auditors help to navigate this comprehensive process swiftly and smoothly.

FOUR STEPS TO SUCCESS

4) UPLOAD
SAC uploads verification report

3) SCORE
Calculate the Higg score, report verification results and send to SAC

2) OBSERVE
Conduct onsite observation/ verification and compare that with documents provided

1) DOCUMENT
Prepare a list and review the documents

SAC Higg FEM

4) PROGRESS MONITORING
Measure and encourage progress with producers

3) IMPROVEMENT
Leverage analysis to make informed decisions

2) SUPPLY CHAIN ANALYSIS
Examine all 11 environmental performance areas and focus on the most important issues

1) SUPPLY CHAIN MAPPING
Reach out to everyone in the supply chain

BEPI

CAPTURE A SHARE OF CLEANER MARKETS

As a world-leading independent provider of technical services for testing, inspection, certification, and public training, we have been helping clients to succeed for over 140 years. Today, that includes working with the entire supply chain to eliminate hazardous chemicals in products and production processes and meet sustainability goals.

Contact TÜV Rheinland today to find out how you can audit and control your chemical footprint, and capture your fair share of the growing market for cleaner and greener textiles, clothing and footwear.

* amfori was formerly known as the Foreign Trade Association (FTA), which was itself founded in 1919 as the World Traders Club of Los Angeles.