



Chemical Management Handbook v 2.0

Foreword

As an internationally operating lifestyle company, we take the responsibility for our environment very seriously and are aware of our social responsibility. Therefore, sustainability is an inner attitude in our daily work. It is our commitment to constantly improve our business activities by making the interaction between people and the environment as responsible as possible.

We started our journey to Zero Discharge since 2016 with our own MRSL which was successfully integrated into our supply chain activities. As we need to strengthen our activities for achieving Zero Discharge, we adopt the widely accepted industry best practice ZDHC MRSL.


In partnering with us, we need the responsibility from our suppliers to ensure that all legal requirements concerning labor compliance, occupational health and safety, product safety and environmental safety are fully complied with.

This Chemical Management Handbook aims to provide some guidance for our partners to develop their own chemical management processes and system which helps to accomplish a better sustainable supply chain and compliance. This Chemical Management Handbook will be reviewed and updated from time to time depending on upcoming new requirements. Suppliers are welcome to interact with us to provide comments and suggestions. We always look forward to working together, sharing better information and practices in these corporate documents.

Yours sincerely,



Gernot Lenz
Chief Executive Officer



Suzanna Smith

Global Sourcing Director

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Acronyms and Abbreviations

BEPI	Business Environmental Performance Initiative (a.k.a. amfori BEPI)
BEPI SAQ	BEPI Self-assessment Questionnaire
CMO	Chemical Management Officer
CMR	Carcinogenic, Mutagenic or Toxic for Reproduction
CMS	Chemical Management System
DWR	Durable Water Repellent
ED	Endocrine / Hormonal Disruptors
GHS	Globally Harmonized System of Classification and Labelling of Chemical
GI	General Instructions
KPI	Key Performance Index
MRSLS	Manufacturing Restricted Substances List
MSDS	Material Safety Data Sheet
PBT	Persistent, bio accumulative and toxic
PPE	Personal Protective Equipment
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
RSL	Restricted Substances List
SDS	Safety Data Sheet
SOP	Standard Operating Procedure
SVHC	Substances with Very High Concern (as defined by REACH)
TSDS	Technical Safety Data Sheet
TTS	Tom Tailor Sourcing Offices

Overview

In textile and apparel industry, lots of chemicals are being consumed in processing and manufacturing of a product. Wet processing on textiles, garments and trims are especially highly dependent on chemicals.

While scientists and chemists are still working on researches, there are readily available literatures confirming some chemicals are hazardous and can be harmful for the environment, marine lives and human beings.

Though organizations, associations and other stakeholders have already been working on regulations for chemical thresholds, contaminations and residues still exist. Hence, a Chemical Management System/ Mechanism (CMS) across the supply chain must be continuously improved and fully implemented. Having a proper chemical management would result in a safer product, lesser health risks and workplace accidents, better environmental protection and conservation.

The baseline for building the chemical management tool is the Manufacturing Restricted Substances List (MRSL/RSL) which sets the minimum requirements for chemical input and output for suppliers, partners and processing facilities. It can be found in the Appendix of our chemical handbook.

Scope

TOM TAILOR wants to ensure compliance with laws and regulatory requirements, like, in markets where TOM TAILOR products are sold and produced/ sourced. TOM TAILOR looks forth to go beyond to DETOX its supply chain through eliminating hazardous chemicals.

The procedures set forth in the coming pages, therefore apply to all suppliers of products sold by TOM TAILOR, irrespective of their method of sourcing.

This includes suppliers, processing facilities and subcontractors of:

- Garments (including dye house, laundry, fabric mill)
- Home Textiles
- Shoes and Bags: the products supplied must comply with the requirements of CADs RSL. The link to the current version can be found in the Appendix.

That are handled by:

- Our Sourcing Offices (TTS)
- Sourcing agencies
- Importers
- Licence partners

And supplying to:

- TOM TAILOR lines

Definition of Hazardous Chemicals:

“Hazardous Chemicals” is a very broad and generic term. It means any substance, item, chemical, or agent that could cause harm to humans, animals, or the environment, either by itself or through interaction with other factors.

Hazardous chemicals are frequently used in the workplace as raw materials, solvents, cleaning agents, or catalysts, etc. These are normally classified per the risk they pose to health and property.

Possible hazards are:

- Health and Safety Hazards
- Physical Hazards
- Fire Hazards
- Explosive Hazards
- Systemic Effects
- Target Organ Effects

Regarding physical safety concerns, flammability, corrosion, explosion and reactivity properties should always be considered.

Keys for Chemical Management

The following are keys for a better chemical management for suppliers, and should be set as foundations for building suppliers' own chemical management system:

- Demonstrate management commitment through establishing “chemical policy”, it should be endorsed by an authorized official and communicated within the organisation
- Strictly comply to environmental regulations and in-house chemical policy, review and update them from time to time base on international, national, and/ or industrial standards
- Apply and maintain the proper license(s) and/ or permit(s) for the usage and storage of any hazardous substances onsite per respective regulations
- Put in place a Responsible Personnel (or Team) who must have good understanding and knowledge of chemicals; training and education program should be available to ensure everyone's knowledge on chemical management is kept up-to-date
- Only purchase the suitable chemicals and amounts required; reduce inventories and store only what is almost immediately needed
- Keep abreast of safe chemical and technology updates, maintain “Positive List” and substitute hazardous chemicals whenever possible, or adopt new technologies to replace chemical intensive processes
- Improve inter-facility and intra-facility delivery of chemicals to avoid leakages
- Minimize hazardous waste disposal, fully comply to international and/ or national standards
- Automate repetitive high risk tasks by machine if possible
- Increase operational safety for workers and the community, including but not limited to: ensure good ventilation at the workplace, provision of suitable PPE
- Conduct regular review/ audit to ensure the procedures are properly followed, corrective actions and revision to the procedures should be done where needed

In addition to adopting the above keys into one's chemical management system, it will be good to understand that in every system development, “Plan-Do-Check-Act” (PDCA) is a common approach for continuous improvement to ensure the management system is robust and sustainable. Hence, PDCA should be an important method reiterating the chemical management system implementation.

Initial Steps for Building Chemical Management System

Establish Management Commitment

The Supplier Management has to clearly define their commitment in regards to chemical management, and the scopes, goals and requirements should be well-defined and properly communicated within the organization.

In general, the scopes, goals and requirements are related to the interests of internal and external stakeholders. Senior management of the supplier must adhere to the commitment when creating policies, practices and procedures, also deliver and drive the same to all related units and workers, from top to the bottom.

Creating Standard Operating Procedures

Standard Operating Procedures (SOP) needs to be created to clearly define the responsibilities and tasks that are required from the responsible departments, teams, units and personnel.

Procedures on communications, process workflow, detailed handling and reporting, regular review and checking should be established and devised.

Creating Chemical Master List and Building Chemical Inventory

As an easy step for suppliers to start with their chemical management system, a preferred industrial practice is to create a Chemical Master List and a Chemical Inventory Record. Every single chemical must be registered and tracked. This database is useful for the PDCA of chemical management system subsequently.

From the Master List and Inventory List, supplier needs to record below key information of their chemicals (most of them can be found from the MSDS/ TDS):

- Type of chemicals (e.g. dye, pigment, detergent, softener, emulsifier, resin, etc.)
- Name of chemical (e.g. Bionic-Finish Eco)
- Name of chemical brand (e.g. Rudolf GmbH)
- Name of chemical supplier/ provider (e.g. ABC Chemical Supply Service Ltd.)
- Contact of chemical supplier/ provider (e.g. Name, email, telephone)
- CAS number for each active chemical ingredient (e.g. Benzene, CAS no.: 71-43-2)
- Known or potential hazards/ toxicity (e.g. carcinogenic, hormonal disruptor)
- Safety precautions and first aid measures

- Inventory of Incoming Chemicals (e.g. 500 Litre of Bionic Finish Eco received on 1st August, 2016)
- Inventory in Production Unit (e.g. 200 Litre of Bionic Finish Eco in fabric finishing unit on 1st July, 2016)
- Log on whether the chemical is: 1) Bluesign certified, 2) Oekotex certified, 3) third-party tested to confirm free of hazardous substances, and/ or 4) with chemical supplier's/ provider's self-declaration

In collecting the above information, a massive chemical database will be established. Subsequent chemical review together with necessary testing will help to find out and identify problematic chemicals. Further down to this, suppliers can apply the understanding of the chemicals to identify the level of risk and hazards for the related process. Decision can be subsequently made to phase out or replace the unwanted chemicals as next step.

Chemical Hazard Determination and Risk Assessment

It is the process of evaluating available scientific evidence in order to determine if a chemical is hazardous pursuant to commitment and/ or customers' requirements (e.g. MRSL).

This evaluation identifies the hazards of a chemical that may pose to the environment, and human being. (Please refer to "Definition of Hazardous Chemicals".)

Hazard determination sets the baseline for a further estimation and assessment of risk. Hazard refers to an inherent property of a substance that is capable of causing an adverse effect. Risk refers to the probability that an adverse effect will occur with specific exposure conditions. Thus, a substance will present the same hazard in all situations due to its innate chemical or physical properties and its actions on cells and tissues. However, considerable differences may exist in the risk posed by a substance, depending on how the substance is contained or handled, personal protective measures used, and other conditions that result in or limit exposure.

It is advised that supplier chemical management responsible team or personnel should always keep abreast of the latest regulatory updates (producing countries and importing countries), customer requirements, industrial standards/ best practices, and maintain communication with chemical suppliers to ensure maintenance of a proper benchmark for eliminating undesirable chemicals, and replacing them with better option available. The responsible team should set targets and implementation plan for such elimination, reduction of substitution of hazardous substances to ensure continuous improvement.

In working with chemical suppliers, below steps could be taken for increased assurance to MRSL compliance:

- Purchase from those who could provide Bluesign certificate (Blue/ Green)
- Purchase from those who could provide Oekotex certificate
- Purchase from those who could provide test reports of the particular chemicals on sourcing list
- Purchase from those who could provide a declaration (signed by recognized company official) on MRSL compliance (in the form of self-declaration, and chemical information list)

*Chemical suppliers should provide valid MSDS/ TSDS of the particular chemicals purchased, and local language version should be available too for operational use.

In sourcing chemicals, preferences should be given to those “Green chemicals” and those on “Positive Lists”.

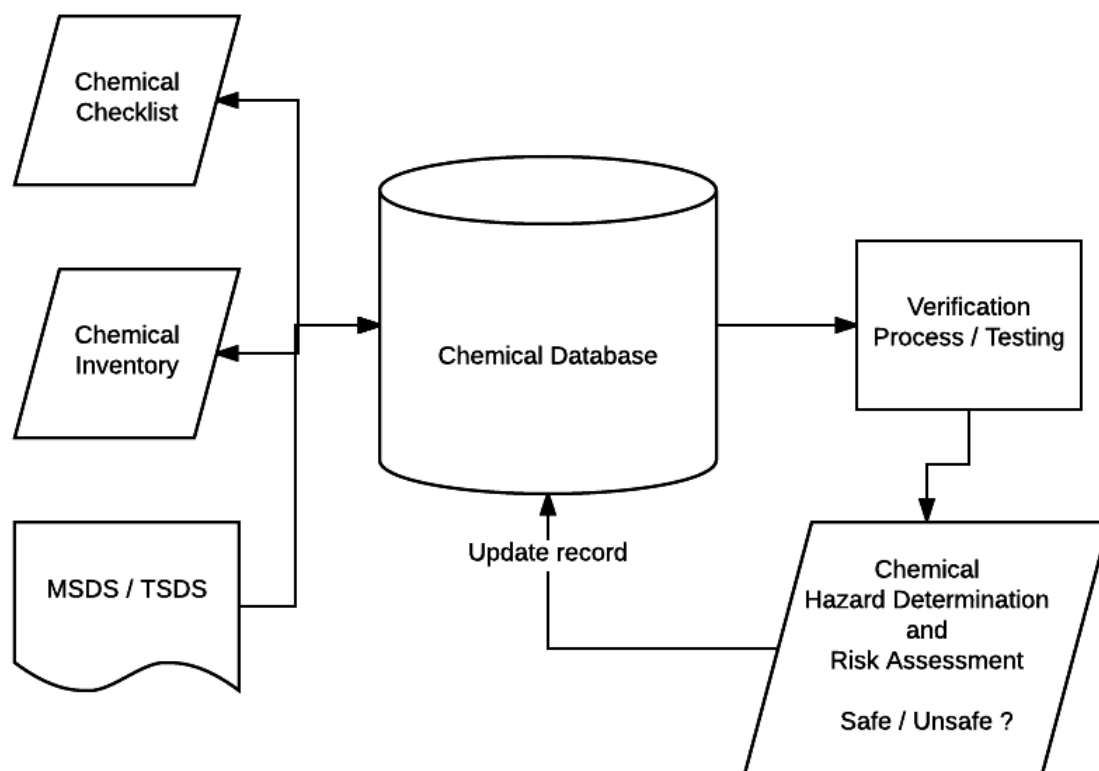


Fig. Sample workflow

Setting up Roles and Responsibilities

A fundamental chemical management system requires people to manage and execute. Top management or senior leadership must commit and ensure the availability of resources essential to establish, implement, maintain and improve the system from time to time. Resources include human resources, skills and knowledge, organizational infrastructure, technology and hardware, and financial resources.

Each organization may have its own infrastructure and organisation hierarchy setup to run the chemical management system. In general, the roles and responsibilities should at least cover –

Role	Responsibility
Chemical Management Officer (CMO)	<ul style="list-style-type: none"> • Reports to top management and senior leadership • Responsible for day-to-day management of chemical management system • Responsible for setting up goals and commitment for the organization, ensuring compliance to applicable requirements • Responsible for tracking progress, monitoring KPIs and goals to supply chain partners
Regulatory Compliance Officer (RCO)	<ul style="list-style-type: none"> • Ownership of building, maintaining and updating the local, national and international regulatory compliance requirements within the organization • Addressing new or changing compliance requirements to CMO that could affect the business and operation of the organization • Responsible for RSL and MRSL compliance and communication with supply chain partners
Technical Officer (TO)	<ul style="list-style-type: none"> • Responsible for production process and product chemical knowledge • Responsible for working together with RCO to communicate the necessary technical information with supply chain partners; and provide technical support to the organization • Responsible for chemical hazard determination and assessment • Responsible for exploring safer alternatives (e.g. chemicals, technology)

Chemical Management Work Practice

For chemical management work practices, we will need to establish documented procedures for different areas, and implement accordingly, but below are the keys.

Chemical Labelling

Chemical containers and packaging should allow for clear identification of chemical substances. Hazard and risk information needs to be delivered to people who will have contacts with the chemical. Internationally standardized labels (e.g. GHS), markings, symbols, warning statements are commonly used to serve above purpose.

Suppliers should ensure incoming chemicals are with proper labels on packaging upon receipt. Simplified labels with essential information in local language including chemical name, and warning sign should be used whenever smaller portions are to be disseminated or distributed for use in the factory premise.

Any unidentifiable chemicals found in the workplace should be cleared and properly handled to avoid contamination of the production floor.

The Basic Parts of A GHS-Compliant Label



1 → **n-Propyl Alcohol**
UN No. 1274
CAS No. 71-23-8

2 → **DANGER**

3 → Highly flammable liquid and vapor. Causes serious eye damage.
May cause drowsiness and dizziness.

4 → Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing fumes/mist/sprays/aerosols. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing.

5 → Fill Weight: 18.65 lbs. Lot Number: B56754434
Gross Weight: 20 lbs. Fill Date: 6/21/2013
Expiration Date: 6/21/2020
Acme Chemical Company • 711 Roadrunner St. • Chicago, IL 60601 USA • www.acmechem.com • 123-444-5567

6 → See SDS for further information.

- Product Identifier** - Should match the product identifier on the Safety Data Sheet.
- Signal Word** - Either use "Danger" (severe) or "Warning" (less severe).
- Hazard Statements** - A phrase assigned to a hazard class that describes the nature of the product's hazards.
- Precautionary Statements** - Describes recommended measures to minimize or prevent adverse effects resulting from exposure.
- Supplier Identification** - The name, address and telephone number of the manufacturer or supplier.
- Pictograms** - Graphical symbols intended to convey specific hazard information visually.

Sample label courtesy of Weber Packaging Solutions • www.weberpackaging.com

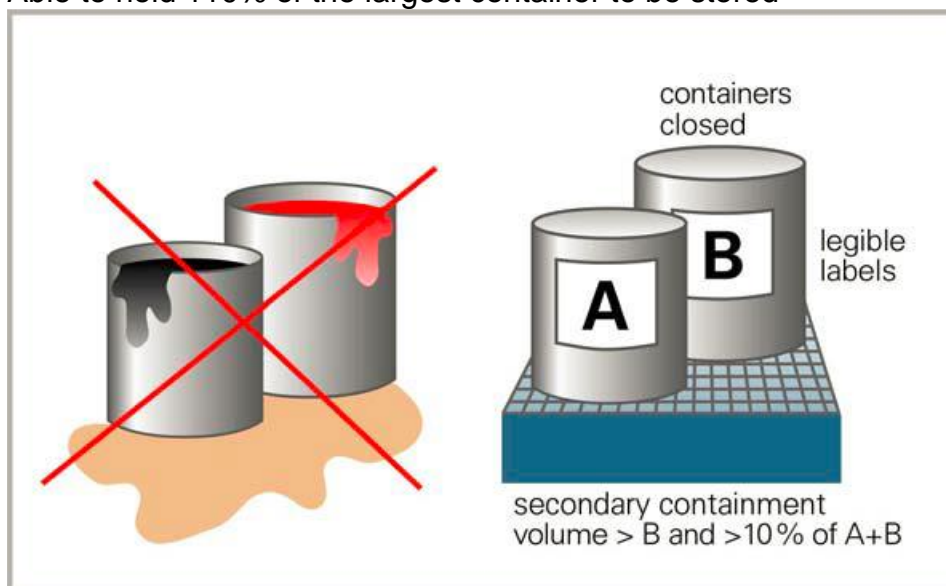


Secondary Containment

A secondary containment is one that is designed to catch hazardous materials if the container leaks or the chemical spills. Such containment is crucial to keep the chemicals contained so they do not contaminate soil, air or water.

The secondary containment can be in the form of absorbent material, special pallets, or barrels, and it should comply with the following:

- Chemically compatible with the materials to be stored in them
- Designed in accordance with the total volume of containers to be hold with respect to the principles for whichever is better: (may refer to US OSHA or other resources for more guidance)
 - At least 10% of the total volume chemicals to be stored
 - Able to hold 110% of the largest container to be stored



- Clean, leakage- and crack-free
- Discharges into the secondary containment must be cleaned immediately and properly disposed

Personal Protective Equipment

While it is critical to avoid hazards and risks at the first place when designing the workshop and adopting particular process workflow, PPE, as a last resort though, should always serve to protect employees from being hurt by an unexpected accident or expected incident in daily operations.

Information on the use of appropriate PPE should be found in the MSDS for each chemical. PPE must at least protect operators’:

- Eyes by wearing protective or safety eyeglasses or goggles
- Skins by wearing appropriate protective gloves, apron and shoes
- Respiratory system by wearing appropriate masks



For areas where chemicals are used, PPE usage warning signs and respective instructions should be posted to guide the proper usage, and respective PPE should be provided free for use by employees – regular maintenance and replacement of such PPE should be done to ensure the protection.

*****Caution*****

Suppliers should ensure work environment assessment in relation to occupational health and safety is conducted on a regular basis and when there are changes in the production process, so as to make sure the setup is safe to operators. If potential hazards are identified, suitable measures and PPEs should hence be provided as protection for employees.

In addition to work environmental assessment, suppliers should provide occupational health examinations for operators before/ during/ after they hold the position that involves dealing with chemicals. It is also advised that regular job rotation should be exercised for such operators.

Storage

With respect to the potential hazards that chemicals may bring, precautions must be taken in storing chemicals at the workplace.

Where appropriate, chemical storage/ warehouse is better set in an isolated building with restricted access. Such area must be encased with sound construction to stand from weather, well ventilated, free of obstruction, kept dry and clean.

Chemicals should be stored in accordance with their properties and compatibilities, e.g. acids should never be put together/ near alkaline, oxidants and flammable chemicals should be stored individually and/ or special rooms/ cupboard to ensure safety.

Signage (chemical names, warning and hazard labels, etc.) and MSDS should be available as identification for ease of segregation and onsite handling.

On the work floor, only daily usage amount of chemicals should be kept to avoid any accidents. Inventory log for tallying the amount getting in and out of the chemical storage/ warehouse should be kept for integrity checking.

If suppliers may have any aboveground/ underground tanks onsite for chemical storage, the rules above should apply as well, and regular integrity testing of such tanks should be conducted. They should also ensure any license or permit appropriate should be valid in place.

MSDS

For every chemical product, it should have its own MSDS/ TSDS/ SDS. Suppliers should obtain such information from the chemical suppliers/ dealers/ agencies for understanding thoroughly what chemicals are being used onsite, and what sort of measures need to be taken.

MSDS should include 16 items, namely:

1. Chemical product and chemical supplier/ agency information
2. Hazards identification
3. Composition/ information on ingredients
4. First aid measures
5. Firefighting measures
6. Accidental release measures
7. Handling and storage
8. Exposure controls/ personal protection
9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information
12. Ecological information
13. Disposal considerations
14. Transportation information
15. Regulatory information
16. Other information

Waste and Disposal

Many production processes generate waste. The disposal can be to air, water or soil. The hazards, risks and toxicity of disposed waste chemicals should be identified and measured.

In best practice, recycle or reuse the waste is ideal whenever possible. However, if recycle or reuse is not applicable, organization needs to make sure the waste and disposal will be treated before discharging or releasing to public. The waste should be properly handled by qualified service providers and the hazardous and toxic impact to human and environment must comply with the regulation and should be as low as possible.

Suppliers should establish waste handling procedures to include hazardous and non-hazardous waste with identifying the sources and way of handling accordingly to ensure all waste generated in the premise is handled properly.

Attention should be paid for effluent treatment if suppliers run any wet-processing units. For effluent discharge, legal compliance is a baseline, and suppliers should strive for excellence with adopting ZDHC Wastewater Guidelines.

<https://www.roadmaptozero.com/post/updated-zdhc-wastewater-guidelines-v1-1-released>

Training and Emergency Preparedness

Suppliers should ensure operators who deal with chemicals directly as part of their daily work are familiar with the risks and hazards such chemicals may bring to them, and hence follow accordingly on the proper work procedures and take protective/safety measures.

Orientation, regular training and daily briefing to such operators regarding health and safety requirement and measures, and work standards are important. The Chemical Management Team should include training as part of their work plan.

Emergency preparedness is as important to be at the core of the organisation setup through establishment of emergency procedures, hardware equipment installation and regular drills. Such emergency procedures should be registered to government authorities where appropriate and communicate with employees to ensure understanding and follow up.

Hardware equipment including firefighting equipment and spare water tanks for wastewater should be in place and well maintained to minimise impact in case.

With all these setup, it is crucial to ensure employees onsite understand well what to do in case of emergency. Hence, regular drills should be conducted with performance recorded for improvement planning.

Regular Review

Internal audits and management reviews should be conducted to check whether the daily operation is consistent with the policy and procedures set. This is a good way to identify loopholes and rooms for improvement to be made in terms of revision of the procedures, communications, training, etc.

Suppliers could also consider seeking for third party certification programmes to build up robust chemical management system.

amfori BEPI for Assessing Chemical Management Performance

amfori Business Environmental Performance Initiative (as BEPI in short) is an initiative that enables companies to respond to key environmental issues and trends and drive improvements in the supply chains via the tools provided.

TOM TAILOR as a member of amfori, has launched BEPI in the supply chain since August 2019, and this is applicable to all our suppliers and factories (production sites) (except license suppliers).

BEPI has covered a comprehensive scope of 11 Environmental Performance Areas (EPAs):



All our active Tier 1 suppliers/ factories are subjected to completion of the BEPI Self-assessment questionnaire (SAQ) which covers the above 11 EPAs and respective data collection for reflecting the environmental performances of such suppliers/ factories on a regular basis.

While the EPAs highlighted with a “star” is considered more relevant to our supply chain, average score of “Pollution Prevention and Chemicals” and “Wastewater/ Effluent” becomes the “Chem-Index” for our assessing the chemical management performance of our suppliers/ factories.

Our suppliers/ factories should hence follow this Chemical Handbook to drive changes and maintain a good management system for eventually achieving “Green” results:

Green	61-100	Considered good, or a strength
Yellow	41-60	As mediocre, and possibly a weakness
Red	0-40	As weakness

Please refer to these links for more information about BEPI:

- BEPI Platform: <https://platform.bepi-intl.org/> (Login required)
- amfori Resources Platform: <https://www.amfori.org/resources>

TOM TAILOR Contacts

In case of any questions, the following persons can be contacted:

Quality Department/ Laboratory

Ms. Yvonne Nauheimer, yvonne.nauheimer@tom-tailor.com

Ms. Antje Majnaric, antje.majnaric@tom-tailor.com

Ms. Heike Tober, heike.tober@tom-tailor.com

CSR Department

Ms. Claudia Landgraf, claudia.landgraf@tom-tailor.com

Ms. Tilky Wang, tilky.wang@tom-tailor.com

APPENDIX

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General Information

All chemical tests have to be organized by the supplier himself, and need to be done at accredited laboratories, SGS and Bureau Veritas.

All costs for tests have to be paid by suppliers.

TOM TAILOR reserves the right to ask for rechecks and random tests.

If a consignment of goods does not meet these requirements, TOM TAILOR will either reject the goods or they will be processed in Hamburg.

In both cases the respective costs incurred will be charged back to the supplier.

Test results have to be entered in PLM system and test report documents have to be uploaded as PDF file.

Partners without PLM System login account have to send all test reports to the QA testing department (heike.tober@tom-tailor.com; antje.majnaric@tom-tailor.com).

Chemical Test Package (CTP)

The **Chemical Test Package** is a random test and for certain selected styles by TOM TAILOR Laboratory. All limits for the parameters are mentioned in the TOM TAILOR Restricted Substances List (RSL).

Test application will be requested in PLM system for all necessary articles.

Legal Requirements

REACH, SVHC, POP Regulation

The European Union transposed the reform of the chemicals legislation by the European Regulation (EC) 1907/2006. This regulation is also known under the keyword “**REACH**” (Regulation for Registration, Evaluation, Authorisation and Restriction of Chemicals). Since 1st June 2007 the regulation has a direct effect in each member state of the European Union.

REACH aims at protecting health and environment through a safe handling with chemicals. For this reason it contains rules about the registration, evaluation, licence and limitation of chemicals (so-called “substances” in the regulation). The safe use of chemicals must be ensured, particularly with regard to the protection of human health and environment (ground, air, water) as certain key priorities of the REACH regulation.

Substances of very high concern (**SVHC**) are defined in Article 57 of Regulation (EC) No 1907/2006 (“the REACH Regulation”) and include substances which are Carcinogenic, Mutagenic or toxic to Reproduction (CMR), meeting the criteria for classification in category 1 or 2 in accordance with Directive 67/548/EEC, Persistent, Bioaccumulative and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) according to the criteria in Annex XIII of the REACH Regulation.

The supplied goods have to correspond to the prohibition and limitation of toxic substances as they are laid down in the Annex XVII of the Regulation(EG) 1907/2006, which can be downloaded from the following website, and which forms an essential part of this agreement:

<https://echa.europa.eu/substances-restricted-under-reach>

The supplied products are not allowed to include more than 0.1 % (this corresponds to 1000 mg/kg or 1000 ppm) of a substance of very high concern registered in the actual (date of delivery) **REACH-“Candidate-List”**, which can be downloaded from the following website:

http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

The mentioned weight limit of 0.1 % refers to the weight of the respective products. In case of a compound product, the weight of each separate component is relevant (ECJ, judgment of 10. September 2015, C-106/14), for example the weight of yarn, of inlays, buttons or zippers.

The products supplied must comply with the requirements of the **POP Regulation** (EC) No. 850/2004 applicable at the time of delivery. In particular, the limit values defined in Annexes I to V must be complied with. The current version of the POP Regulation can be found under the following link:

https://eur-lex.europa.eu/legal-content/DE/ALL/?uri=uriserv:OJ.L_.2019.169.01.0045.01.DEU

and

<https://eur-lex.europa.eu/legal-content/DE/TXT/PDF/?uri=CELEX:32020R0784&from=EN>.

The supplier is obliged to inform himself regularly about the current version of the POP Regulation.

TOM TAILOR RSL, MRSL and CADs RSL

The delivered products correspond in each item to applicable legal requirements and Restricted Substances List (RSL) of TOM TAILOR, the RSL is a part of each order and is enclosed.

Shoes and bags supplied must comply with the requirements of **CADs RSL**.
The present version can be found under the following link:

<https://www.cads-shoes.com/en/rs/>

The supplier is obliged to inform himself regularly about the current version of the CADs RSL.

In addition, only textile auxiliaries and colourants that comply with the limits of the **Manufacturing Restricted Substances List (MRSL)** of the Zero Discharge of Hazardous Chemicals Programme (ZDHC) in the version applicable at the time of delivery are used for the production of the goods supplied, which can be downloaded from

https://www.roadmaptozero.com/mrsl_online/

This contains the permissible pollutant concentrations for various substance groups in the chemicals used. We reserve the right to verify compliance with this requirement by submitting the chemical register and the confirmations of the chemical suppliers.

RSL

Please find following **Restricted Substances Lists (RSL)** for TOM TAILOR.

TOM TAILOR		RSL adults*		
Group	Substance	CAS-No.	Test Method	Test Limit each in mg/kg
Dyestuffs				
Dyes - Azo (Forming Restricted Amines)	please see Appendix A for detailed information (new aniline)	Appendix A	Textile: EN ISO 14362-1:2017, 4-aminoazobenzene confirmation: EN ISO 14362-3:2017 ; Leather: ISO 17234-1:2015, 4-aminoazobenzene confirmation: ISO-17234-2:2011	20
Dyes - Disperse (Sensitizing)	please see Appendix B for detailed information	Appendix B	DIN 54231	n.d. (detection limit 20)
Dyes - Carcinogenic or Equivalent Concern	please see Appendix C for detailed information	Appendix C	DIN 54231	each 20
Dyestuffs causing environmental problems (not allowed to be used during production process)	Component 1: C39H23ClCrN7O12S*2NA	405-665-4	DIN 54231	n.d. (5)
	Component 2: C46H30CrN10O20S*3NA	Not allocated		
Heavy Metals				
Total Heavy Metals	Cadmium (Cd)	7440-43-9	EN 16711-1	100
	Lead (Pb)	7439-92-1		90
	Mercury (Hg)	7439-97-6		0,5
Chromium (VI)	Chromium VI	18540-29-9	ISO 17075-1:2017 , artificial aging: 24h, 80C, 10% rF	leather: 3
				textile: 1
Nickel	Nickel release (direct and prolonged skin contact)		EN 12471 EN 12472 / EN 1811:2011+A1:2015	0,5 µg/cm2/ week
Extractable Heavy Metal Content	Antimony (Sb)	7440-36-0	Extraction with artificial sweat solution (ISO 105 E04 solution II), analysis with ICP/AAS. Cr (VI) with UV/VIS	30
	Arsenic (As)	7440-38-2		1
	Lead (Pb)	7439-92-1		1
	Cadmium (Cd)	7440-43-9		1
	Chromium (Cr)	7440-47-3		textile: 2 leather: 100
	Cobalt (Co)	7440-48-4		4
	Copper (Cu)	7440-50-8		25
	Nickel (Ni)	7440-02-0		4
	Mercury (Hg)	7439-97-6		n.d. (detection limit 0,02)
Heavy Metals in Packaging	Cadmium (Cd)	7440-43-9	In-House method; analysis by ICP; CrVI by alkaline extraction	sum 100
	Lead (Pb)	7439-92-1		
	Mercury (Hg)	7439-97-6		
	Chromium VI	18540-29-9		

TOM TAILOR		RSL adults*		
Group	Substance	CAS-No.	Test Method	Test Limit each in mg/kg
Organic Substances				
Polycyclic Aromatic Hydrocarbons (PAHs)	please see Appendix D for detailed information	Appendix D	AIFS GD 2014-01 PAK, GC-MS analysis	BaP, BeP, BaA, CHR, BbF, BkF, BkF, DBA, IPY, BPE: each 0,5; NAP 2; sum of ANA, ANY, ANT, FLU, PHE, FLT, PYR: 10; sum of 18 PAHs: 10
Siloxane	Octamethylcyclotetrasiloxane D4	556-67-2	Extraction with solvent, GC-MS	1000
	Decamethylcyclopentasiloxane D5	541-02-6		
	Dodecamethylcyclohexasiloxane D6	540-97-6		
Organotin Compounds	Tributyltin, Tricyclohexyltin, Trimethyltin, Trioctyltin, Triphenyltin, Tripropyltin	Appendix E	ISO/TS 16179	each 1
	Dibutyltin, Dimethyltin, Dioctylzinn, Diphenyltin, Monobutyltin, Monomethyltin, Monoctyltin, Monophenyltin, Tetraethyltin, Tetrabutyltin			each 2
Phthalates	please see Appendix F for detailed information	Appendix F	ISO 14389, GC-MS analysis	sum 1000
Spinning Solvents	Dimethylformamide (DMF)	68-12-2	headspace GC-MS	each 500
	Dimethylacetamide (DMAC)	127-19-5		
	N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (NMP)	872-50-4		
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	Nonylphenol (NP), mixed isomers	various	Textile: ISO 18254-1 Leather: ISO 18218-1:2015; Extraction with solvent, GC-MS or LC-MS	10
	Octylphenol (OP), mixed isomers			10
	Octylphenol ethoxylates (OPEO)			sum 100
	Nonylphenol ethoxylates (NPEO)			1000
	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)			1000
	4-tert-Butyl-Phenol	98-54-4		1000
Perfluorinated and Polyfluorinated Chemicals (PFCs)	Perfluorooctane sulphonates (PFOS) and related substances	various	extraction with solvent, LC-MS	1µg/m ²
	Perfluorooctanoic acid (PFOA) and related substances			0,025
Formaldehyde	Formaldehyde	50-00-0	textile: ISO 14184-1 leather: ISO 17226-2	75

RESTRICTED SUBSTANCES LIST
(RSL) adults

TOM TAILOR EST. 1962		RSL adults*		
Group	Substance	CAS-No.	Test Method	Test Limit each in mg/kg
Benzene	Benzene	74-43-2	VDA 278	5
Quinoline	Quinoline	91-22-5	Extraction with THF and HPLC/MS	50
Biocides	Dimethylfumarate (DMFu)	624-49-7	extraction with organic solvent, GC-MS or LC-MS	0,1
	Tridosan	3380-34-5		n.d. (detection limit 0,5)
	2-(Thiocyanomethylthio)-Benzothiazol TCMTB	21564-17-0		leather: 500
	4-Chlor-3-Methylphenol	59-50-7		leather: 600
	2-Phenylphenol (OPP)	90-43-7		leather: 1000
	2-Octylisothiazol-3(2H)-on	26530-20-1 OIT		textile: 100 leather: 250
Chlorinated phenols	please see Appendix G for detailed information	Appendix G	Textile / Leather: LFGB § 64 BVL B82.02.8, GC-ECD analysis; Leather: ISO 17070; Polyester / Polyester-blend / printed fabric: Modified § 64 LFGB BVL B82.02.8 with alkaline digestion	each 0,5
PVC	Polyvinylchloride	9002-86-2	Beilstein test; FTIR (if Beilstein test positive)	negative
Chlorinated Organic Carriers (COC)	chlorinated toluene and benzene (please see Appendix H for detailed information)	Appendix H	DIN 54232; GC-MS analysis	sum 1
Glycols	please see Appendix I for detailed information	Appendix I	In house method, GC-MS analysis	n.d. (detection limit 10)
Fat Liquoring Agents	Short Chain Chlorinated Paraffin (SCCP) (C10 - C13)	85535-84-8	EN ISO 18219 (modified)	250
	Medium Chain Chlorinated Paraffin (MCCP)	85535-85-9		1000
soluble Proteins	soluble Proteine (from Natural rubber)		DIN EN 455-3 (modified) Lowry method	n.d. (detection limit 20 in sum)
Flame Retardants	please see Appendix J for detailed information	Appendix J	Requested if sample treated with flame retardants In-house method: GC-MS/GC-NPD/MS/LC-MS analysis	n.d. (detection limit 10)

TOM TAILOR		RSL adults*		
Group	Substance	CAS-No.	Test Method	Test Limit each in mg/kg
Volatile Organic Compounds (VOC)	please see Appendix K for detailed information	Appendix K	for general VOC screening: GC/MS headspace 45 minutes at 120 degrees C ; for DMAC: DIN CEN ISO/TS 16189:2013	sum 100
Pesticides	please see Appendix L for detailed information	Appendix L	in-house (solvent extract) by GC-MS analysis	Total concentration of Pesticides < 1
Asbestos	Actinolite	77536-66-4	Polarized light microscopy for qualitative analysis	negative
	Amosit	12172-73-5		
	Anthophyllit	77536-67-5		
	Chrysotil	12001-29-5		
	Krokydolith	12001-28-4		
	Tremolit	77536-68-6		
Polychlorinated and Halogenated Biphenyls, Naphthalenes and Terphenyls	Halogenated biphenyls, including Trichlorinated or higher chlorinated Biphenyls (PCB)	Appendix M	PCB: Test method: DIN 38407 (part 2) group F, analysis by GC- EC/GC-MSD (detection limit of each: 0,01 mg/kg) PCT: Test method: In-house method, analysis by GC-ECD (detection limit of each: 1 ppm) Ugilec 141, ugilec 121	n.d. (please see test method for detection limit)
	Halogenated naphthalenes, including Polychlorinated naphthalenes (PCN)			
	Halogenated terphenols, including Polichlorinated terphenyl (PCT)			
Dioxins and Furans	please see Appendix N for detailed information	Appendix N	in-house	n.d. (sum 1)
ph value			Textile: ISO 3071 Leather: ISO 4045	4 - 7,5
Determination of Odours	No odour from mould, high boiling fraction of petrol, fish, aromatic hydrocarbons or perfume.		Sensoric determination of odours: SNV 195 651	3 (tolerable odour) or below
only for UV Absorbers, Stabilizers	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one; 3- benzylidene camphor; 3-BC	15087-24-8	Extraction, GC-MS	1000

TOM TAILOR		RSL Babys, Kids*		
Group	Substance	CAS-No.	Test Method	Test Limit each in mg/kg
Dyestuffs				
Dyes – Azo (Forming Restricted Amines)	please see Appendix A for detailed information (new aniline)	Appendix A	Textile: EN ISO 14362-1:2017, 4-aminoazobenzene confirmation: EN ISO 14362-3:2017 ; Leather: ISO 17234-1:2015, 4-aminoazobenzene confirmation: ISO-17234-2:2011	20
Dyes – Disperse (Sensitizing)	please see Appendix B for detailed information	Appendix B	DIN 54231	n.d. (detection limit 20)
Dyes – Carcinogenic or Equivalent Concern	please see Appendix C for detailed information	Appendix C	DIN 54231	each 20
Dyestuffs causing environmental problems (not allowed to be used during production process)	Component 1: C39H23ClCrN7O12S•2NA	405-665-4	DIN 54231	n.d. (detection limit 5)
	Component 2: C46H30CrN10O20S2•3NA	Not allocated		
Heavy Metals				
Total Heavy Metals	Cadmium (Cd)	7440-43-9	EN 16711-1	40
	Lead (Pb)	7439-92-1		40
	Mercury (Hg)	7439-97-6		0,5
Chromium (VI)	Chromium VI	18540-29-9	ISO 17075-1:2017 , artificial aging: 24h, 80C, 10% rF	leather: 3
				textile: 1
Nickel	Nickel release (direct and prolonged skin contact)		EN 12471 EN 12472 / EN 1811:2011+A1:2015	0,5 µg/cm2/ week
Extractable Heavy Metal Content	Antimony (Sb)	7440-36-0	Extraction with artificial sweat solution (ISO 105 E04 solution II), analysis with ICP/AAS. Cr (VI) with UV/VIS	30
	Arsenic (As)	7440-38-2		1
	Lead (Pb)	7439-92-1		1
	Cadmium (Cd)	7440-43-9		1
	Chromium (Cr)	7440-47-3		textile: 2 leather: 100
	Cobalt (Co)	7440-48-4		4
	Copper (Cu)	7440-50-8		25
	Nickel (Ni)	7440-02-0		4
	Mercury (Hg)	7439-97-6		n.d. (detection limit 0,02)
Heavy Metals in Packaging	Cadmium (Cd)	7440-43-9	In-House method; analysis by ICP; CrVI by alkaline extraction	sum 100
	Lead (Pb)	7439-92-1		
	Mercury (Hg)	7439-97-6		
	Chromium VI	18540-29-9		

TOM TAILOR		RSL Babys, Kids*		
Group	Substance	CAS-No.	Test Method	Test Limit each in mg/kg
Organic Substances				
Polycyclic Aromatic Hydrocarbons (PAHs)	please see Appendix D for detailed information	Appendix D	APS GD 2014-01 PAK, GC-MS analysis	BaP, BeP, BaA, CHR, BbF, BfF, BkF, DBA, IPY, BPE: each 0,5; NAP 2; sum of ANA, ANY, ANT, FLU, PHE, FLT, PYR: 10 ; sum of 18 PAHs: 10
Siloxane	Octamethylcyclotetrasiloxane D4	556-67-2	Extraction with solvent, GC-MS	1000
	Decamethylcyclopentasiloxane D5	541-02-6		
	Dodecamethylcyclohexasiloxane D6	540-97-6		
Organotin Compounds	Tributyltin, Tricyclohexyltin, Trimethyltin, Trioctyltin, Triphenyltin, Tripropyltin	Appendix E	ISO/TS 16179	each 1
	Dibutyltin, Dimethyltin, Dioctylzinn, Diphenyltin, Monobutyltin, Monomethyltin, Monoctyltin, Monophenyltin, Tetraethyltin, Tetrabutyltin			each 2
Phthalates	please see Appendix F for detailed information	Appendix F	ISO 14389, GC-MS analysis	sum 300
Spinning Solvents	Dimethylformamide (DMF)	68-12-2	headspace GC-MS	each 500
	Dimethylacetamide (DMAC)	127-19-5		
	N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (NMP)	872-50-4		
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	Nonylphenol (NP), mixed isomers	various		10
	Octylphenol (OP), mixed isomers			10
	Octylphenol ethoxylates (OPEO)			sum 100
	Nonylphenol ethoxylates (NPEO)			
	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)			1000
	4-tert-Butyl-Phenol	98-54-4		1000
Perfluorinated and Polyfluorinated Chemicals (PFCs)	Perfluorooctane sulphonates (PFOS) and related substances	various	extraction with solvent, LC-MS	1µg/m ²
	Perfluorooctanoic acid (PFOA) and related substances			0,025
Formaldehyde	Formaldehyde	50-00-0	textile: ISO 14184-1 leather: ISO 17226-2	16

TOM TAILOR		RSL Babys, Kids*		
Group	Substance	CAS-No.	Test Method	Test Limit each in mg/kg
Benzene	Benzene	74-43-2	VDA 278	5
Quinoline	Quinoline	91-22-5	Extraction with THF and HPLC/MS	50
Biocides	Dimethylfumarate (DMFu)	624-49-7	extraction with organic solvent, GC-MS or LC-MS	0,1
	Triclosan	3380-34-5		n.d. (detection limit 0,5)
	2-(Thiocyanomethylthio)-Benzothiazol TCMTB	21564-17-0		leather: 500
	4-Chlor-3-Methylphenol	59-50-7		leather: 600
	2-Phenylphenol (OPP)	90-43-7		leather: 1000
	2-Octylisothiazol-3(2H)-on	26530-20-1 OIT		textile: 100 leather: 250
Chlorinated phenols	Tetrachlorophenol (TeCP)	Appendix G	Textile / Leather: LFGB § 64 BVL B82.02.8, GC-ECD analysis; Leather: ISO 17070; Polyester / Polyester-blend / printed fabric: Modified § 64 LFGB BVL B82.02.8 with alkaline digestion	0,05
	Pentachlorophenol (PCP)			0,05
	TriCP			0,05
	MCP			sum of MCP, DCP 0,25
	DCP			
PVC	Polyvinylchloride	9002-86-2	Beilstein test FTIR (if Beilstein test positive)	negative
Chlorinated Organic Carriers (COC)	chlorinated toluene and benzene (please see Appendix H for detailed information)	Appendix H	DIN 54232; GC-MS analysis	sum 1
Glycols	please see Appendix I for detailed information	Appendix I	In house method, GC-MS analysis	n.d. (detection limit 10)
Fat Liqueuring Agents	Short Chain Chlorinated Paraffin (SCCP) (C10 - C13)	85535-84-8	EN ISO 18219 (modified)	n.d. (detection limit 50)
	Medium Chain Chlorinated Paraffin (MCCP)	85535-85-9		
soluble Proteins	soluble Proteine (from Natural rubber)		DIN EN 455-3 (modified) Lowry method	n.d (detection limit 20 in sum)
Flame Retardants	please see Appendix J for detailed information	Appendix J	Requested if sample treated with flame retardants In-house method: GC-MS/GC-NPD/MS/LC-MS analysis	n.d. (detection limit 10)

TOM TAILOR		RSL Babys, Kids*		
Group	Substance	CAS-No.	Test Method	Test Limit each in mg/kg
Volatile Organic Compounds (VOC)	please see Appendix K for detailed information	Appendix K	for general VOC screening: GC/MS headspace 45 minutes at 120 degrees C; for DMAC: DIN CEN ISO/TS 16189:2013	sum 100
Pesticides	please see Appendix L for detailed information	Appendix L	in-house (solvent extract) by GC-MS analysis	Total concentration of Pesticides < 1
Asbestos	Actinolite	77536-66-4	Polarized light microscopy for qualitative analysis	negative
	Amosit	12172-73-5		
	Anthophyllit	77536-67-5		
	Chrysotil	12001-29-5		
	Krokydolith	12001-28-4		
	Tremolit	77536-68-6		
Polychlorinated and Halogenated Biphenyls, Naphthalenes and Terphenyls	Halogenated biphenyls, including Trichlorinated or higher chlorinated Biphenyls (PCB)	Appendix M	PCB: Test method: DIN 38407 (part 2) group F, analysis by GC-EC/GC-MSD (detection limit of each: 0,01 mg/kg) PCT: Test method: In-house method, analysis by GC-ECD (detection limit of each: 1 ppm) Ugilec 141, ugilec 121	n.d. (please see test method for detection limit)
	Halogenated naphthalenes, including Polychlorinated naphthalenes (PCN)			
	Halogenated terphenols, including Polichlorinated terphenyl (PCT)			
Dioxins and Furans	please see Appendix N for detailed information	Appendix N	in-house	n.d. (sum 1)
ph value			Textile: ISO 3071 Leather: ISO 4045	4 - 7,5
Determination of Odours	No odour from mould, high boiling fraction of petrol, fish, aromatic hydrocarbons or perfume.		Sensoric determination of odours: SNV 195 651	3 (tolerable odour) or below
only for UV Absorbers, Stabilizers	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one; 3-benzylidene camphor; 3-BC	15087-24-8	Extraction, GC-MS	1000

Appendix A: Azo dyes, list of carcinogenic Amines	
Substances	CAS-No
Biphenyl-4-ylamin, 4-aminobiphenyl xenylamine	92-67-1
Benzidine	92-87-5
4-chloro-o-toluidine	95-69-2
2-naphthylamine	91-59-8
o-aminoazotoluene, 4-amino-2,3-dimethylazobenzene 4-o-tolylazotoluidine	97-56-3
5-nitro-o-toluidine	99-55-8
4-chloroaniline	106-47-8
4-methoxy-m-phenylenediamine	615-05-4
4,4'-methylenedianiline, 4,4'-diaminodiphenylmethane	101-77-9
3,3'-dichlorobenzidine	
3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1
3,3-dimethoxybenzidine o-dianisidine	119-90-4
3,3-dimethylbenzidine, 4,4'-bi-o-toluidine	119-93-7
4,4'-methylenedi-o-toluidine	838-88-0
6-methoxy-m-toluidine p-cresidine	120-71-8
4,4'-methylene-bis-(2-chloro-aniline) 2,2'-dichloro-4,4'-ethylenedianiline	101-14-4
4,4'-oxydianiline	101-80-4
4,4'-thiodianiline	139-65-1
o-toluidine, 2-aminotoluene	95-53-4
4-methyl-m-phenylenediamine	95-80-7
2,4,5-trimethylaniline	137-17-7
o-nitrosidine (2-methoxyanilin)	90-04-0
4-amino azobenzene	60-09-3
2,4-xylidine	95-68-1
2,6-xylidine	87-62-7
aniline	62-53-3

Appendix B: Disperse Dyes, list of allergenic disperse dyes	
Substances	CAS-No
C.I. Disperse Blue 1	2475-45-8
C.I. Disperse Blue 3	2475-46-9
C.I. Disperse Blue 7	3179-90-6
C.I. Disperse Blue 26	3860-63-7
C.I. Disperse Blue 35	12222-75-2
C.I. Disperse Blue 102	12222-97-8
C.I. Disperse Blue 106	12223-01-7
C.I. Disperse Blue 124	61951-51-7
C.I. Disperse Polyester Dark Blue 35	56524-77-7
C.I. Disperse Brown 1	23355-64-8
C.I. Disperse Orange 1	2581-69-3
C.I. Disperse Orange 3	730-40-5
C.I. Disperse Orange 11	82-28-0
C.I. Disperse Orange 37/59/76	12223-33-5 / 13301-61-6
C.I. Disperse Orange 149	85136-74-9
C.I. Disperse Red 1	2872-52-8
C.I. Disperse Red 11	2872-48-2
C.I. Disperse Red 17	3179-89-3
C.I. Disperse Yellow 1	119-15-3
C.I. Disperse Yellow 3	2832-40-8
C.I. Disperse Yellow 9	6373-73-5
C.I. Disperse Yellow 23	6250-23-3
C.I. Disperse Yellow 39	12236-29-2
C.I. Disperse Yellow 49	54824-37-2

Appendix C: List of carcinogenic dyes or Equivalent Concern	
Substances	CAS-No
C.I. Acid Red 26	3761-53-3
C.I. Acid Violet 49	1694-09-3
C.I. Acid Red 114	6459-94-5
C.I. Basic Blue 26	2580-56-5
C.I. Basic Green 4 (malachite green chloride)	569-64-2
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8
C.I. Basic Green 4 (malachite green)	10309-95-2
C.I. Basic Red 9	569-61-9
C.I. Basic Violet 1	8004-87-3
C.I. Basic Violet 3	548-62-9
C.I. Basic Violet 14	632-99-5
C.I. Direct Black 38	1937-37-7
C.I. Direct Blue 6	2602-46-2
C.I. Direct Blue 15	2429-74-5
C.I. Direct Blue 218	28407-37-6
C.I. Direct Brown 95	16071-86-6
C.I. Direct Red 28	573-58-0
C.I. Pigment Red 104 (contains lead)	12656-85-8
C.I. Pigment Yellow 34 (contains lead)	1344-37-2
C.I. Solvent Yellow 1	60-09-3
C.I. Solvent Yellow 2	60-11-7
C.I. Solvent Yellow 3	97-56-3
C.I. Solvent Yellow 14	842-07-9

Appendix D: List of PAHs	
Substances	CAS-No
Benzo[a]anthracen	56-55-3
Benzo[a]pyren	50-32-8
Benzo[b]fluoranthene	205-99-2
Benzo[e]pyren	192-97-2
Benzo[k]fluoranthene	205-82-3
Benzo[k]fluoranthene	207-08-9
Chrysen	218-01-9
Dibenzo[a,h]anthracen	53-70-3
1-Methylpyrene	2381-21-7
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benzo[ghi]perylene	191-24-2
Cyclopenta[1,2,3-cd]pyrene	27208-37-3
Dibenzo[a,e]pyrene	192-65-4
Dibenzo[a,h]pyrene	189-64-0
Dibenzo[a,i]pyrene	189-55-9
Dibenzo[a,j]pyrene	191-30-0
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno[1,2,3-cd]pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0

TOM TAILOR SUBSTANCES AND CAS NUMBERS*

Appendix E: List of tin organic compounds	
Substances	CAS-No
Dibutyltin	1002-53-5
Dimethyltin	753-73-1
Diocetyl tin	15231-44-4, 3542-36-7
Diphenyltin	1011-95-6
Monobutyltin	78763-54-9
Monomethyltin	23001-26-5
Monooctyltin	3091-25-6
Monophenyltin	2406-68-0
Tetraethyltin	597-64-8
Tetrabutyltin	1461-25-2
Tributyltin	56573-85-4
Tricyclohexyltin	3091-32-5
Trimethyltin	1066-45-1
Triodotyltin	2587-76-0
Triphenyltin	892-20-6
Tripropyltin	2279-76-7

Appendix F: List of the Phthalates	
Substances	CAS-No
1,2-Benzenedicarboxylic acid-dihexylester branched & linear	68515-50-4
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
Bis-[2-methoxy-ethyl] phthalate (BMEP)	117-82-8
Butyl-benzyl phthalate (BBP)	85-68-7
Di-(7-C11 alkyl) phthalate Linear and branched (DHNUP)	68515-42-4
Di(2-ethyl-hexyl) phthalate (DEHP)	117-81-7
Di(C6-C8 alkyl) phthalate Branched (DIHP)	71888-89-6
Di-butyl phthalate (DBP)	84-74-2
Di-C6-C10 alkyl ester, 1,2-benzenedicarboxylic acid, mixed decyls	68648-93-1
Di-cyclohexyl phthalate (DCHP)	84-61-7
Diethyl phthalate (DEP)	84-66-2
Di-iso-butyl phthalate (DIBP)	84-69-5
Di-iso-Decyl Phthalate (DIDP)	26761-40-0, 68515-49-1
Di-iso-hexylphthalate	71850-09-4
Di-iso-nonyl phthalate (DINP)	28553-12-0
Di-iso-octyl phthalate (DIOP)	27554-26-3
Di-iso-pentyl phthalate (DIPP)	605-50-5
Dimethyl phthalate (DMP)	131-11-3
Di-n-hexyl phthalate (DHP)	84-75-3
Di-n-octyl phthalate (DNOP)	117-84-0
Dinonyl phthalate (DNP)	84-76-4
Di-n-propyl phthalate (DPRP)	131-16-8
Di-pentyl phthalate (DPP)	131-19-0
N-pentyl-iso-pentyl phthalate (PIPP)	776297-69-9

Appendix G: List of Chlorinated phenols	
Substances	CAS-No
2-chlorophenol	95-57-8
3-chlorophenol	108-43-0
4-chlorophenol	106-48-9
2,3-dichlorophenol	576-24-9
2,4-dichlorophenol	120-83-2
2,5-dichlorophenol	583-78-8
2,6-dichlorophenol	87-65-0
3,4-dichlorophenol	95-77-2
3,5-dichlorophenol	591-35-5
Pentachlorophenol (PCP)	87-86-5
2,3,4,5-tetrachlorophenol	4901-51-3
2,3,4,6-tetrachlorophenol	58-90-2
2,3,5,6-tetrachlorophenol	935-95-5
2,3,4-trichlorophenol	15950-66-0
2,3,5-trichlorophenol	933-78-8
2,3,6-trichlorophenol	933-75-5
2,4,5-trichlorophenol	95-95-4
2,4,6-trichlorophenol	88-06-2
3,4,5-trichlorophenol	609-19-8

Appendix H: List of chlorinated Benzenes and Toluenes (COC)	
Substances	CAS-No
o,o', 2,4-trichlorotoluene	94-99-5
o,o', 2,6-trichlorotoluene	2014-83-7
o,o', 3,4-trichlorotoluene	102-47-6
alpha, alpha, 2,6-tetrachlorotoluene	81-19-6
alpha, alpha, alpha, 2-tetrachlorotoluene	2136-89-2
alpha, alpha, alpha, 4-tetrachlorotoluene	5216-25-1
Benzotrichloride	98-07-7
Chlorobenzene	108-90-7
2-chlorotoluene	95-49-8
3-chlorotoluene	108-41-8
4-chlorotoluene	106-43-4
1,2-Dichlorobenzene	95-50-1
1,3-Dichlorobenzene	541-73-1
1,4-Dichlorobenzene	106-46-7
2,3-dichlorotoluene	32768-54-0
2,4-dichlorotoluene	95-73-8
2,5-dichlorotoluene	19398-61-9
2,6-dichlorotoluene	118-69-4
3,4-dichlorotoluene	95-75-0
3,5-dichlorotoluene	25186-47-4
Hexachlorobenzene	118-74-1
Pentachlorobenzene	608-93-5
2,3,4,5,6-pentachlorotoluene	877-11-2
Tetrachlorobenzene	12408-10-5
1,2,3,4-tetrachlorobenzene	634-66-2
1,2,3,5-tetrachlorobenzene	634-90-2
1,2,4,5-tetrachlorobenzene	95-94-3
1,2,3-Trichlorobenzene	87-61-6
1,2,4-trichlorobenzene	120-82-1
1,3,5-Trichlorobenzene	108-70-3
2,3,6-trichlorotoluene	2077-46-5
2,4,5-trichlorotoluene	6639-30-1
added to Appendix H Benzylchloride	100-44-7

Appendix I: List of Glycol Ethers	
Substances	CAS-No
2-ethoxyethanol	110-80-5
2-ethoxyethyl acetate	111-15-9
2-methoxyethanol	109-86-4
2-methoxyethylacetate	110-49-6
2-methoxypropylacetate	70657-70-4
Bis(2-methoxyethyl)-ether	111-96-6
Ethylene glycol dimethyl ether	110-71-4
Triethylene glycol dimethyl ether	112-49-2

Appendix J: List of Flame Retardants	
Substance	CAS No.
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9
Boric Acid	10043-35-3, 11113-50-1
Decabromodiphenyl ether (DecaBDE)	1163-19-5
Hexabromocyclododecane (HBCDD)	3194-55-6
Octabromodiphenyl ether (OctaBDE)	32536-52-0
Pentabromodiphenyl ether (PentaBDE)	32534-81-9
Polybromobiphenyls (PBB)	59536-65-1
Tetrabromobiphenyl A (TBBPA)	79-94-7
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8
Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8
Tris(2,3-dibromopropyl)-phosphate (TRIS)	126-72-7

* valid for Apparel

RESTRICTED SUBSTANCES LIST
(RSL) APPENDIX

TOM TAILOR **SUBSTANCES AND CAS NUMBERS***

Appendix K: Volatile Organic Compounds (VOC)

Substances	CAS-No
Chloroform	67-66-3
Methylenchloride	75-09-2
cis-1,2-Dichloroethylene	156-59-2
trans-1,2-Dichloroethylene	156-60-5
1,2-Dichloroethane	107-06-2
1,1-Dichloroethane	75-34-3
1,1-Dichloroethylene	75-35-4
Pentachloroethane	76-01-7
Tetrachloroethylene	127-18-4
1,1,1,2-Tetrachloroethane	630-20-6
1,1,2,2-Tetrachloroethane	79-34-5
Tetrachloroethane	56-23-5
Trichloroethylene	79-01-6
1,1,2-Trichloroethane	79-00-5
1,1,1-trichloroethane	71-55-6
2-ethoxyethanol	110-80-5
2-ethoxyethyl acetate	111-15-9
2-methoxyethanol	109-86-4
2-methoxyethyl acetate	110-49-6
2-methoxypropyl acetate	70657-70-4
Bis(2-methoxyethyl) ether	111-96-5
Acetophenone	98-86-2
Acrylamid	79-06-1
Benzene	71-43-2
Cyclohexanone	108-94-1
Ethylbenzene	100-41-4
Formamide	75-12-7
m-Cresol	108-39-4
Methyl ethyl ketone	78-93-3
Moschusylol	81-15-2
o-Cresol	95-48-7
p-Cresol	106-44-5
2-phenyl-2-propanole	617-94-7
Styrene	100-42-5
Toluene	108-88-3
1,2,3-trichloropropane	96-18-4
Xylene	1330-20-7

Appendix L: List of Pesticides

Substance	CAS No.	Substance	CAS No.	Substance	CAS No.
2,4,5-T	93-76-5	Dieldrin	50-57-1	Monocrotophos	6923-22-4
2,4-D	94-75-7	Dimethoate	60-51-6	Parathion	56-38-2
Azinophosmethyl	86-50-0	Dinoseb and salts	88-85-7	Parathion-methyl	298-00-0
Azinophosethyl	2642-71-9	Endosulfane α-	115-29-7	Phosdrin/Mevinphos	7786-34-7
Aldrin	309-00-2	Endosulfane β-	33213-65-9	Propethamphos	31218-83-4
Bromophos-ethyl	4824-78-6	Endrine	72-20-8	Profenophos	41198-08-7
Captan	2425-06-1	Esfenvalerate	66230-04-4	Quinalphos	13593-03-8
Carbaryl	63-25-2	Fenvalerate	51630-58-1	Toxaphene	8001-35-2
Chlordane	57-74-9	Heptachlor	76-44-8	Trifluralin	1582-09-8
Chlordimeform	6164983	Heptachlorepoixide	1024-57-3	Isodrine	465-73-6
Chlorfenvinphos	470-90-6	Hexachlorobenzene	118-74-1	Kelevane	4234-79-1
Coumaphos	56-72-4	Hexachlorocyclohexane α-	319-84-6	Kepone	143-50-0
Cyfluthrin	68359-37-5	Hexachlorocyclohexane β-	319-85-7	Perthane	72-56-0
Cyhalothrin	91465-08-6	Hexachlorocyclohexane δ-	319-86-8	Strobane	8001-50-1
Cyprmethrin	52315-07-8	Lindane	58-89-9	Telodrine	297-78-9
DEF	78-48-8	Malathion	121-75-5	2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds	93-72-1
Deltamethrin	52918-63-5	MCPA	94-74-6	Hexachlorocyclohexane (HCH, all isomers) except gamma hexachloro-Cyclohexane	608-73-1
DDD	53-19-0, 72-64-8	MCPB	94-81-6	Quintozene	82-68-8
DDE	3424-82-6 72-55-9	Mecoprop	93-65-2	Halogenated terphenols	various
Diazinon	333-41-5	Metamidophos	10265-92-6	Halogenated naphthalenes	various
Dichlorprop	120-36-2	Methoxydior	72-43-5	Halogenated dianilines	various
Dicrotophos	141-66-2	Mirex	2385-85-5	Halogenated diphenyl	various
Dichloro-diphenyl-trichloro ethane DDT	50-29-3 789-02-6	Hexabromobiphenyl	36355-0-18	Endosulfan	959-98-8
Monomethyl-dibromo-diphenyl methane	99688-47-8	Monomethyl-dichloro-diphenyl methane	81161-70-8	Monomethyl-tetrachloro-diphenyl methane	76253-60-6

RESTRICTED SUBSTANCES LIST
(RSL) APPENDIX

TOM TAILOR SUBSTANCES AND CAS NUMBERS*

Appendix M: Polychlorinated Biphenyls (PCB), Naphthalenes (PCN) and Terphenyls (PCT) such as	
Substance	CAS No.
PCB	1336-36-3
PCT	61788-33-8

Appendix N: List of Dioxins and Furans:					
Substance	CAS No.	Substance	CAS No.	Substance	CAS No.
Group 1: 2,3,7,8-Tetrachlorid-benzo-p-dioxin	1746-01-6	Group 2: 1,2,3,4,7,8-Hexachloridbenzo-p-dioxin	39227-28-6		
1,2,3,7,8-Penta-chloridbenzo-p-dioxin	40321-76-4	1,2,3,7,8,9-Hexachloridbenzo-p-dioxin	19408-74-3		
2,3,7,8-Tetrachlor-di-benzofuran	51207-31-9	1,2,3,7,8,9-Hexachloridbenzo-p-dioxin	57653-85-7		
2,3,4,7,8-Pentachloridbenzofuran	57117-31-4	1,2,3,6,7,8-Hexachloridbenzo-p-dioxin	57117-41-6		
		1,2,3,7,8-Pentachloridben furan	70648-26-9		
		1,2,3,4,7,8-Hexachloridbenzofura n	72918-21-9		
		1,2,3,7,8,9-Hexachloridbenzofura n	57117-44-9		
		1,2,3,6,7,8,-Hexachloridbenzofura n	60851-34-5		
Group 3: 1,2,3,4,6,7,8-Heptachlorodi benzo-p-dioxin	60851-34-5	Group 4: 2,3,7,8-Tetrabromodibenzo-p-dioxin	50585-41-6	Group 5: 1,2,3,4,7,8-Hexabromodibenz o-p-dioxin	11099-44-5
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	35822-46-9	1,2,3,7,8-Pentabromodibenzo-p-dioxin	10933-34-8	1,2,3,7,8,9-Hexadibromodibe nzo-p-dioxin	11099-46-7
1,2,3,4,6,7,8-Heptachlorodibenzofuran	3268-87-9	2,3,7,8-Tetrabromodibenzofur an	6733-57-7	1,2,3,6,7,8-Hexadibromodibe nzo-p-dioxin	11099-45-6
1,2,3,4,7,8,9-Heptachlorodibenzofuran	67562-39-4	2,3,4,7,8-Pentabromodibenzofur an	131166-92-2	1,2,3,7,8-Pentabromodiben zofuran	107555-93-1
1,2,3,4,6,7,8,9-Octachloridbenzofuran	55673-89-7				
	39001-02-0				

COMMITMENT TO COMPLYING WITH TOM TAILOR CHEMICAL MANAGEMENT PROGRAMME

I hereby confirm that:

1. We have received, read and thoroughly understood the **TOM TAILOR Chemical Management Handbook, Version 2.0 (August 2020)**, including Chemical Management System setup guidance, and the latest version of REACH, POP requirements and MRSL/ RSL.
2. We acknowledge that compliance with the TOM TAILOR Chemical Management programme is a contractual obligation and undertaking, accordingly, to meet the Chemical requirements in all orders involving production, marketing and/ or distribution placed by any of the format of the TOM TAILOR.
3. We undertake to disclose and formally demand TOM TAILOR Chemical Management requirement implications to the whole supply chain of production including but not limited to production facilities, sub-contractors, sub-processors and wet processing units, etc. relevant entities.
4. The TOM TAILOR:
 - a. Reserves the right to check: 1) compliance with TOM TAILOR Chemical Management requirement regarding any goods supplied, by any method, at any time, and/ or at any stage of the production, marketing or distribution processes, and 2) the appropriate disclosure of Chemical Management.
 - b. Reserves the right to cancel any order for any goods where non-compliance with TOM TAILOR Chemical Management Programme/ requirement regarding any test and/ or inspection carried out pursuant to the printout has been established.
 - c. Reserves the right to cancel or destroy, or to order destruction of the goods subject to the cancelled order, subject to the fact that the cancellation of the relevant order shall entail the non-existence of the obligation to pay any sum whatsoever for the goods failing to comply with TOM TAILOR Chemical Management Programme/ requirement.
 - d. Holds the Supplier as solely responsible for any and all damages caused by the goods failing to comply with TOM TAILOR Chemical Management Programme/ requirement.
 - e. Reserves the right to stop business with the Supplier whenever the cases of non-compliance to the TOM TAILOR Chemical Management Programme/ requirement occurs more than 3 times in a year.

Place, Date:

Name and position of the signatory in bold letters:

Name of the Company in bold letters:

Signature, Company stamp: