



# SUPPLIER HANDBOOK CHEMICAL MANAGEMENT



Version 3.0 I February 2019



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# WHAT IS DETOX?

The Greenpeace Detox campaign challenges top brands to make amends by working with their suppliers to eliminate all hazardous chemicals across their entire supply chain. Tchibo has publicly committed itself to eliminate a priority list of hazardous chemicals from textile supply chains until 2020 and to gain transparency over the use and discharge of chemicals. The goal is to protect water resources and improve environmental and human health both work and at in surrounding communities.

# DID YOU KNOW?

20%

of industrial water pollution comes from textile dyeing and finishing! (World Bank)

This massive water pollution has been the origin of the Greenpeace Detox Campaign. In order to drive change, Greenpeace appeals to the responsibility of international textile brands and demands a commitment to eliminate hazardous chemicals!

View I Download: Tchibo Detox Commitment 2014

View I Download: Tchibo Detox Progress Report 2018

# ZDHC Membership

Tchibo believes that only collective action can transform an industry. In 2018, Tchibo became a signatory brand member of the 'Zero Discharge Hazardous Chemicals' Initiative (ZDHC). We see a number of opportunities in this alliance: firstly, it allows for an industry-wide agreement on a minimum level of engagement in the supply chains.



### About ZDHC

The ZDHC Foundation oversees implementation of the Roadmap to Zero Programme and is a global industry collaboration of currently 125 contributors (28 brands, 80 value chain affiliates. and 17 associates). The vision is widespread implementation of sustainable chemistry, driving innovations and best practices in the textile, leather footwear apparel, and industries. collaborative Through engagement, standard setting and large-scale implementation ZDHC advances the industry towards zero discharge of hazardous chemicals.

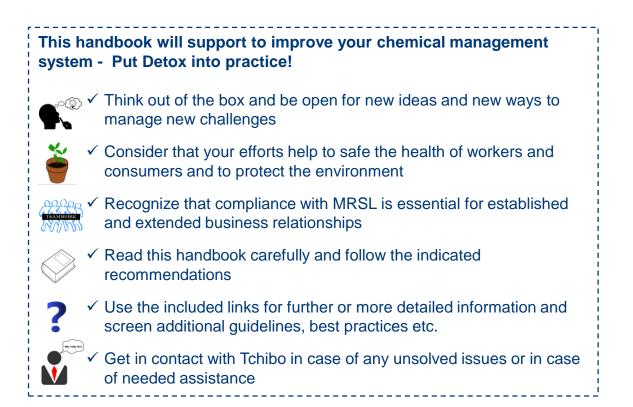
Find more information on https://www.roadmaptozero.com/



These <u>11 priority chemical groups</u> are used extensively in the textile industry and in the focus of the Greenpeace Detox Campaign. Once released, many of them accumulate in the environment, which means they are defined as persistent. Some substances are bioaccumulative, meaning they can accumulate in the blood, organs and tissues of living organisms and damage health. Also most of them are toxic and harm living organisms. That is why these chemicals should be avoided.

	Substance Group	Occurrence in product/ process
1	Alkylphenolethoxylates (AP and APEO)	Pigment printing, washing and scouring (e.g.pre- treatment, Anti backstaining of denim, greasy wool), Coatings, Silk treatment (de-gumming)
2	Per- and polyfluorinated chemicals (PFCs)	Water- and/or dirt- and/or grease-repellant finished products
3	Phthalates	Flexible plastic components (e.g., PVC), Print pastes, Adhesives, Plastic buttons, Plastic sleevings, Polymeric coatings
4	Brominated and chlorinated flame retardants	Flame retardant finishing
5	Cleavable aryl amines from Azo dyes	Dyeing and printing of all other fibres, PU- materials
6	Organotin compounds	Odour blocking/ anti-bacterial finishing, textile printing, finishing and coating, plastics/rubber, metallic glitter, polyurethane products and heat transfer material (transfer prints label)
7	Chlorobenzenes	Polyester or wool/polyester fibres (dyeing), rubber carpet back, shoe polish, glue, lacquer
8	Chlorinated solvents	Spot cleaning agent in manufacturing, solvent, degreasing or cleaning operations (leather/ textile/ fur/ rubber/ plastic, printing, Finishing)
9	Chlorophenols	Preservatives or pesticides for growing cotton and when storing/transporting fabrics (anti-mold/ insect). Preservative in print pastes.
10	Short chain Chloroparaffines (SCCP)	Plastiziser in plastics, fat liquoring of leather and fur, flame retardants
11	Heavy metals	Leather tanninng, wool/silk/ PA dyeing, Textile prints, colours and paints (e.g. surface paints on zippers and buttons), synthetic materials





Please share this handbook with all your business partners, especially with all the ones conducting wet processes!



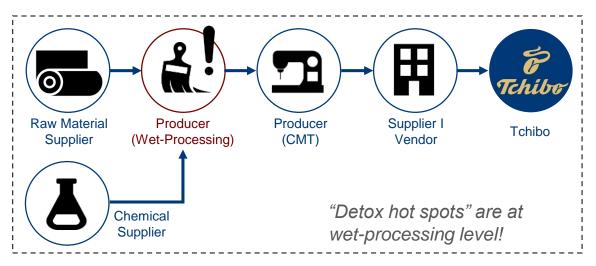
# **2]** Tchibo Requirements



# Transparency I Supply Chain Disclosure

# WHY DO WE NEED TRANSPARENCY?

The Detox commitment includes transparency on the use and discharge of all hazardous chemicals with textile production. The chemical-intensive process steps usually take place in the deeper supply chain at wet-processing level. That is why full transparency of all suppliers and production processes is the basis to take action and improve chemical management.



## **TCHIBO REQUIRES.....**

- 1. Information on all wet-processing units (WPU) that are involved in the production of Tchibo products including name, address, contact information and process steps
- 2. A valid **waste water test** for each wet-processing unit (see page 19 for *further details*)
- **3. Upload** of the waste water test to ZDHC Gateway Platform (see page 20 for further details)

By Tchibo joining the ZDHC, all WPUs producing for Tchibo will get **free access** to ZDHC Gateway. The platfom includes two modules:



### **Wastewater Module**

a global online platform to register and share verified wastewater test data for the entire textile industry

### Chemical Module

an advanced search engine for formulations that are conforming to ZDHC's MRSL





# **RSL I MRSL Compliance**

For the implementation of the Detox requirements throughout the supply chains, Tchibo has updated and refined its product and production standards:



### **RSL – Restricted Substances List**

RSL contains chemicals which are either completely prohibited or restricted above certain threshold levels in final products!



### MRSL – Manufacturing Restricted Substances List

MRSL contains chemicals which are either completely prohibited or are restricted above certain threshold levels in production processes!

Hazardous substances endanger the health of workers and consumers and have harmful environmental effects.

- ➔ Both lists provide an overview of substances that must not be used or detected or which must be within the defined limits.
- ➔ In case a Restricted Substance has been detected, it has to be replaced in production or need to be strictly controlled in chemical preparations, processes and on the final product.
- ➔ Every actor who is involved in the production of products for Tchibo needs to be informed about the RSL/MRSL and is responsible to safeguard compliance with the requirements of RSL/MRSL.

### INDUSTRIE STANDARDS

The ZDHC MRSL is considered as the industry benchmark for restricted substances in textile and leather chemicals. Currently Tchibo MRSL restricts some substances beyond the ZDHC MRSL to encourage a progressive level of environmental safety. Being now a member of the ZDHC Tchibo works towards a joint industry approach and as of 2020 Tchibo aims to adopt the ZDHC MRSL list for its entire supply chain.



View I Download: ZDHC MRSL



Current

Version = 4.0

Status: banned \*\*\*\*

**RSL I MRSL Compliance** 

# HOW TO READ THE TCHIBO MRSL?

Substance name

uding all isomers (No intenti

Substance group

kylphenol (AP) and Alkylphenol Et

......

TCHIBO Manufacturing Restricted Substances List (MRSL V4.0) - Implementation Guidance

Method: Input: Chemical Formulation

> 500 ppm (LCMS), (GCMS)

> > 250 ppm

Method: Output: Waste Water

eference to DIN EN ISO 18857 wed by Liquid Chromatography contrometry (LC-MS) Analysis Method Output: Sludge

on DIN EN ISO 18857

Substance that go beyond the ZDHC MRSL are highlighted in grey. These are additional substances that are either regulated by law or by the Tchibo requirements. Updated information will be provided, if new substances are added to the list to start elimination.

> Concentration limits for contaminations/ unwanted impurities in chemical inputs have been harmonized with values in ZDHC MRSL/ German Partnership for sustainable textiles MRSL.

CAS No.

The status of elimination defines the date after which the priority substances must not be used in production of Tchibo articles any more.

**Methods for waste water and sludge analysis are listed without detection limits,** as further knowledge has to be gained by Tchibo, before detection limits and tolerance values for contaminations in waste water and sludge can be defined.

**Compliance with foundational limits defined in ZDHC waste water guidelines** is a first step towards zero discharge of hazardous chemicals. (https://www.roadmaptozero.com/programme/wastewater-quality/)

In case residues of priority substances have been detected in discharges or products, a root cause analysis must be initiated to find the source of the contamination. Based on the results measures shall be defined to eliminate the priority substances from the production.



View I Download: Tchibo MRSL Implementation Guidance



**RSLIMRSL** Compliance

# HOW TO ENSURE MRSL COMPLIANCE?

INTERNAL COMMUNICATION FLOW

**Inform all involved departments** of your company (e.g. procurement, quality assurance, colour lab, production etc.) **about the RSL/MRSL** requirements

**Establish a communication flow** which ensures that all departments/ responsible persons are **informed and updated about RSL/MRSL requirements** 

### EXTERNAL COMMUNICATION FLOW

**Communicate the Tchibo RSL/MRSL** to material and chemical suppliers as well as commission units and ask for recognition and confirmation of adherence

**Develop communication procedures with Tchibo** regarding Detox cases such as: Restricted Substance(s) have been identified, product specifications cannot be realized, limits cannot be achieved.

### CHEMICAL SOURCING ACCORDING TO MRSL

Only use and purchase chemicals that are compliant with MRSL requirements. **Evaluate data** from SDS to ensure Tchibo MRSL compliance.

Ask your chemical suppliers for **supporting secondary documents to proof conformity** with the Tchibo MRSL. These documents comprise

- ✓ test reports
- ✓ certificates or
- ✓ at least declarations (stating the chemical main component, CAS number, presence and quantity of substances mentioned in the Tchibo RSL/MRSL for each chemical preparation, which is indicated with full trade name)

Letter of Confirmation

This is to confirm that the following chemical product:

NAME OF THE CHEMICAL

qualifies for the dyeing, printing and finishing of textiles in compliance with the Tchibo MRSL V3.0 provided that it is properly applied according to the technical recommendations.

Company name Signature

Implement testing procedures to close data lacks and Avoid the usage of chemical preparations with insufficient data

■ Use ZDHC Gateway Chemical Module which allows to check and share chemical product conformance information. Chemical inventory conformance towards ZDHC MRSL can be verified by an InCheck Report





Maintaining an inventory of the chemicals used and stored in factories is necessary in order to keep track. There are two kinds of inventories:



# **Material Inventory List**

is a list of all materials and semi-finished components used and stored onsite with relevant information concerning their risks and components.



### **Chemical Inventory List**

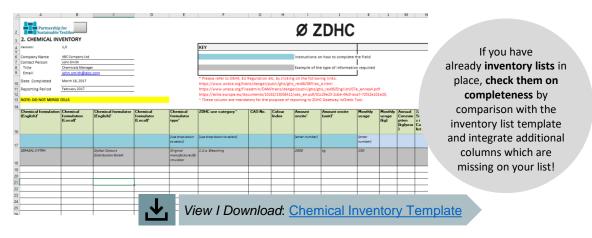
is a list of all chemicals and chemical mixtures used and stored on-site with relevant information concerning their risks and components

A **chemical inventory** is the core element of a functional chemical management system, which can help you to identify and organize all chemical related issues in your production, from the calculation of chemical consumption to the verification of client's and legal requirements for restricted hazardous substances on final products. WHAT TO DO?

	<ul> <li>STEP 1: Set up an inventory of the chemicals used and stored in the factory. The inventory list shall at least contain the following information:</li> <li>Trade name of chemical product</li> <li>Supplier name</li> <li>Manufacturer name</li> <li>Classification: Substance or mixture</li> <li>Chemical composition (main ingredient)</li> <li>CAS number</li> <li>C.I. No for colourants</li> <li>SDS availability</li> <li>Norm of SDS</li> <li>GHS classification</li> <li>Field of application in production</li> <li>Annual consumption</li> <li>Physical form of the chemical product</li> <li>Available toxicological data</li> </ul> To complete an inventory list you have to collect documents from the chemical producer such as Safety Data Sheets (SDS), producer declarations, test reports etc.	V
С	<ul> <li>STEP 2: Update the inventory continuously</li> <li>✓ Add new chemicals</li> <li>✓ Remove expired and obsolete chemicals from the inventory</li> </ul>	Ø
g zpнc Gateway™	<ul> <li>STEP 3: USE ZDHC GATEWAY CHEMICAL MODULE</li> <li>✓ Use the ZDHC Gateway Chemical Module and generate the ZDHC InCheck Report which provides a benchmark score of ZDHC MRSL conformance based on inventory and provides clear results and guidance to improve the quality of chemical inputs</li> </ul>	V



# Tchibo supports the use of the chemical **inventory template** provided by ZDHC and other members of the Partnership for Sustainable Textiles:



### -----GUIDANCE FOR INVENTORY COMPLETION AND EVALUATION ------

formulation	Chemical formulation (Local)^	Chemical formulator (English)^		Chemical formulator type^
Commercial name chemical product/ r it is sold to your co	nixture under which	Indicate the name of manufacturer of the List name and cont	e chemical product.	Chose whether the formulator is the original manufacturer, agent, distributer, etc.

ZDHC use category ^	CAS No.	Colour Index	Amount onsite^	Amount onsite (unit)^
Indicate for which function the chemical/ mixture is used in your process e.g. printing, bleaching, softener, etc.	CAS and Cl. No. al identification of the substances. <b>! You</b> information in the (SDS) chapter 3 !	chemical	List the amount sto related measureme	

Monthly usage		( ), , , , ,		Do you have an MSDS/ SDS?
List the monthly co average)	nsumption in kg (on	List the annual consumption in kg (on average)	SVHC = Substance of very High Concern according to REACH	Indicate if safety data sheet is available by "yes" or "no"



Compliant with Support document ( latest version of for ZDHC MRSL ZDHC MRSL?? finding		Certifications	Expiry dates of certifications	MSDS/ SDS issue date
Indicate whether the chemical is compliant with ZDHC MRSL by "yes" or "no"		e.g. GOTS letter of approval, OEKO-TEX Eco Passport, Bluesign Certif.	mm.dd.yyyy	mm.dd.yyyy
Hazard Statement (H)	Precautionary Statement (P)	GHS Classification = Globally Harmonized System of Classification and Labeling of Chemicals	Use of PPE	Biological degradation/ elimination in %
H-Statement describes the nature and degree of the hazard of the chemical. P-Statement describes recommended measures to prevent adverse effects resulting from exposure. ! You can find the information in the safety data sheet (SDS) chapter 3 !		List GHS classification <b>according to</b> <b>SDS, chapter 2</b>	Provide information of suitable types of PPE e.g. "Wear protection gloves"	Add OECD norm and results ! You can find the information in the safety data sheet (SDS) chapter 12 !
COD	BOD5		Acute aquatic toxicity	Heavy metal in %
·	<b>dicators according t</b> xygen demand I BOD	o SDS, chapter 12 = biological oxygen o	lemand	

Storage condition requirement	Place of storage/ building/ room	Delivery amount	Delivery amount (unit)	Delivery date
Outline conditions for safe storage, including any incompatibilities	Indicate where the chemical is stored exactly	List the delivery amount and the related measurement unit		mm.dd.yyyy
Delivery invoice reference	Chemical tests performed	Dates of chemical tests	Chemical test results against MRSL requirem.	Chemical testing laboratory
List the invoice number for each delivery	Indicate whether any chemical tests are conducted by the chemical supplier or your company	mm.dd.yyyy Indicate the date mentioned on the test report	Indicate if presence arise from a failed test against Tchibo's MRSL	List name and contact details of the testing laboratory
Details on compliance with Brand RSLs	Disposal of chemical	Comments		
Indicate whether the chemical is compliant with Tchibo RSL by "yes" or "no"	Indicate disposal information according to SDS, chapter 13	Add further comments/ remarks		



**Safety Data Sheets (SDS)** include information about the properties of the substance or mixture, its hazards and instructions for handling, disposal and transport and also first-aid, fire-fighting and exposure control measures. The format and content of the safety data sheets are specified in REACH.

A safety data sheet must be provided in local language to downstream users for:

- A substance or mixture that is classified as hazardous according to CLP (Classification, Labelling and Packaging Regulation (EC) No 1272/2008).
- A substance that is persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), or
- A substance that is included in the Candidate List of substances of very high concern (SVHCs)

SDS contains the description of the data used to identify the hazards of a chemical/ mixture

> SDS should always be provided by chemical supplier. If an SDS is not included, contact your chemical supplier and request this document!!

Archive all SDS for at least 24 months! The original SDS provided by chemical supplier follows a 16 section format which is inter-nationally agreed:

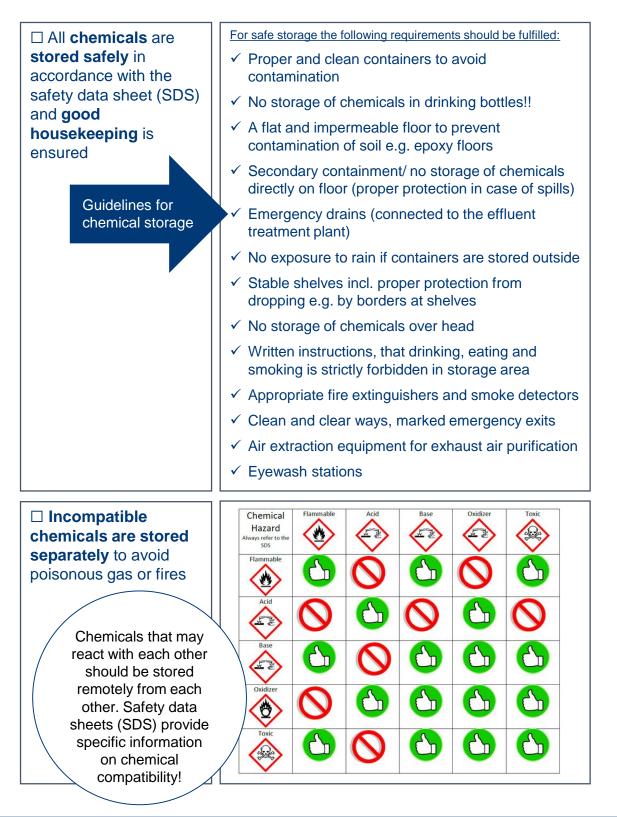
- 1. Identification of substance
- 2. Hazards identification
- 3. Composition/ ingredients
- 4. First Aid measures
- 5. Fire-fighting measures
- 6. Accidental release measures
- 7. Handling and storage
- 8. Personal Protective Equipment
- 9. Physical/ chemical properties
- 10. Stability and reactivity
- 11. Toxicological information
- 12. Ecological information
- 13. Disposal considerations
- 14. Transport information
- 15. Regulatory information
- 16. Other information





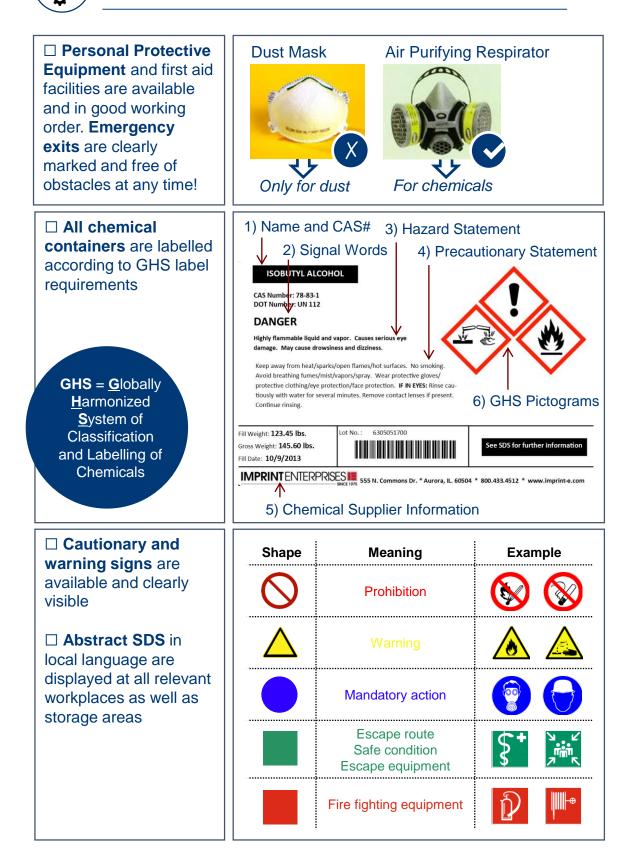
# Housekeeping I Processes

# ENSURE GOOD CHEMICAL MANAGEMENT HOUSEKEEPING





# Housekeeping I Processes







# Housekeeping I Processes

# ENSURE GOOD CHEMICAL MANAGEMENT PROCESSES

# **RESPONSIBILITIES AND COMMUNICATION**

Person(s) in your company is (are) appointed to be responsible for Detox management and Detox communication.

- o Identify and define tasks and duties for Detox management in your company
- Find out which departments have to be involved in your company
- o Define the required qualifications which are essential to perform the tasks
- Appoint responsible person(s) who is/are responsible for Detox topics
- Provide **adequate training** for the responsible person in case of need
- o Inform other departments/persons about the responsibilities
- Identify and define interfaces and areas of interaction between responsible person(s) and departments
- o Provide management attention and support to the responsible persons

# WORKER TRAINING

Person(s) in your company is (are) regularly trained and informed on Detox/ chemical management practices

- Determine training demands for different departments/persons involved in RSL/MRSL management
- o Identify the initial and individual knowledge level of the responsible persons
- Establish training courses and routines based on detected training demand (e.g. awareness building measures for employees and department involved, training on Detox topics and management for the responsible person(s))
- Based on the training content and the availability of respective knowledge within your company, **conduct** internal trainings or **trainings** by external experts
- o Check continuously if training content is understood
- In case of new or up-dated requirements or in case new employees shall be trained, adopt training curricula accordingly
- Ensure that knowledge is not person related and available centrally in the company







# Waste Water Testing

# WHO?

All wet-processing units that are involved in the production of Tchibo products need to provide a valid waste water test. All WPUs must register with the ZDHC Gateway Wastewater Portal and commission their wastewater test through the platform. Upload of wastewater tests to ZDHC Gateway is mandatory for all tests commissioned after 1st March 2019.



# WHAT?

Tchibo is entirely aligned with the ZDHC industry standard in terms of testing requirements:

Test Scope:

According to ZDHC Wastewater Guideline

Sampling Date:

Not older than 1 year (sample date)

Accepted Laboratories:

Please refer to the list of ZDHC Provisionally Accepted Labs, which are summarized here:

https://www.roadmaptozero.com/programme/wastewater-quality/

The ZDHC Gateway – Wastewater Module is a global online platform that is designed to share verified wastewater and sludge test data based on testing against the ZDHC Wastewater Guidelines, which are already the basis for Tchibo's standard wastewater tests.

All data uploaded to the Gateway tool is tested against the same standard and provides reliable, comparable and verified data. In addition to the lab test report, WPUs receive an easy to read performance summary (**ClearStream Report**)

# WHY?

The discharge of wastewater containing hazardous chemicals could have a significant impact on the environment and human health. The first step towards the prevention of wastewater contamination is by using only chemical formulations that are compliant with the MRSL. Wet-processing units should then ensure proper wastewater treatment prior to discharge.





Waste Water Testing

# DISCLOSURE OF EFFLUENT DATA

Chemicals used in production of consumer goods can harm the health and therefore every global citizen has a fundamental <u>'Right to Know'</u> which hazardous chemicals are being used and discharged into the environment.

As part of Tchibo's commitment to create transparency over the use of chemicals in its supply chain, all factories involved in Tchibo production need to publish their current wastewater test results.

By uploading wastewater test results in the ZDHC Gateway, the test data becomes visible to all ZDHC signatory brands, which means WPUs can save time responding to individual brand requests. The upload to the IPE platform is no longer mandatory if the test is already uploaded to the ZDHC Gateway Tool.



## USE WASTE WATER DATA TO CONDUCT A ROOT CAUSE ANALYSIS

At this point there are no contractual consequences based on the results of your waste water test if local governmental regulations are met. We do however expect the WPUs to use the test results to conduct a root cause analysis and **submit a corrective action plan to Tchibo within two weeks**.

The WPU should use the ZDHC Corrective Action Plan template (available on the ZDHC Gateway) and upload the completed file to the ZDHC Gateway. Please note that at this stage, WPU corrective action plans uploaded to the ZDHC Gateway are not visible for brands for data protection reasons. Hence, the corrective action plan must be submitted via email to detox@tchibo.de.

**3]** Get Started -Checklist Responsibilities

Ħ	Supplier I Vendor
•	то до
	>
The p	<b>NSPARENCY</b> oduction units where <b>wet processes such as dyeing, printing, washing and finishing</b> are cted shall be known and their compliance with the RSL/MRSL is ensured
	List all your suppliers with name, geographical location and their type (e.g. trader or producer)
	Identify your suppliers with own wet processing units
	Ask your suppliers to determine and <b>disclose supply chain actors</b> conducting wet processing units
	Collect, evaluate and document relevant supply chain data from suppliers and production units
	Evaluate supplier's feasibility as your Detox partner
	Build up reliable and stable relationships with producers
	<b>Implement control measures</b> to ensure producer's compliance with RSL/MRSL requirements and <b>establish a supplier management and evaluation system</b>
	<b>Install an internal traceability system</b> to follow up which supply chain actors are involved in production of a single product.
	CUMENTATION aces of conformity shall be documented properly
	<b>Collect and document conformity declarations</b> from suppliers' products which are sold to Tchibo stating that the supplied goods are produced in compliance with the Tchibo RSL/MRSL. These documents include test reports, certificates or self-declarations as a minimum.
	<b>Document</b> available <b>test reports</b> for used components, materials as well as for final products
	Keep documents for an adequate period in accordance with legal storage and product liability obligations

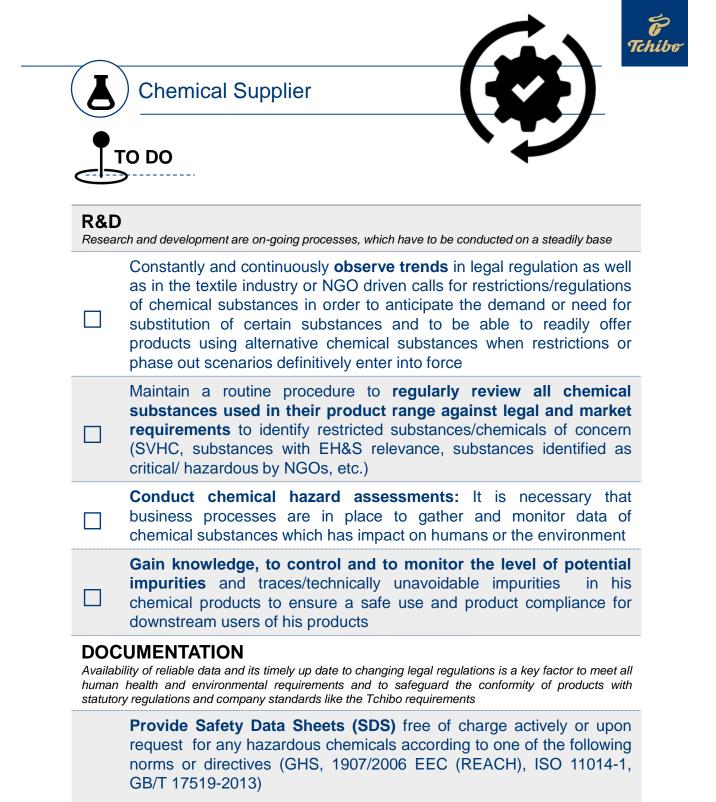
	Producer (CMT)
	то до
A com	ENTORY prehensive inventory list of all used components as basic instrument to manage compliance with RSL and MRSL requirements, shall be established and maintained
	Identify all materials, components and semi-finished products available in your production site
	Keep and maintain an inventory list on all identified components such as fabrics, yarns and trims in use and stored
	Ensure that your inventory lists are always up-to-date
	Use ZDHC Gateway Chemical Module
	<ul> <li>Keep and maintain an inventory list on all identified chemicals at your sub-suppliers. The lists should be used to:</li> <li>✓ check compliancy of chemicals with Detox and Tchibo requirements</li> <li>✓ identify and eliminate gaps in documentation</li> </ul>
	CUMENTATION materials for all Tchibo articles and evidences of conformity shall be documented properly.
	<b>Record a Bill of Material (BOM)</b> for each article/order to be produced for Tchibo including all components used in a material inventory
	<b>Collect and document conformity declarations</b> from suppliers' products which are sold to Tchibo stating that the supplied goods are produced in compliance with the Tchibo RSL/MRSL. These documents include test reports, certificates or self-declarations as a minimum.
	<b>Document</b> available <b>test reports</b> for used components, materials as well as for final products
	<b>Documents procedures, training materials and instructions</b> related to Detox and Chemical Management
	Keep documents for an adequate period in accordance with legal storage and product liability obligations

	Producer (Wet-Processing)
	TO DO
Chem	. I MRSL COMPLIANCE icals and chemical preparations in use shall be evaluated and in case of non-conformity with the RSL/MRSL requirements, procedures are defined.
	Evaluate data from SDS to ensure Tchibo MRSL compliance
	<ul> <li>Ask your chemical suppliers for supporting secondary documents to proof conformity with the Tchibo MRSL and to proof qualification of the chemical product to meet the Tchibo RSL/MRSL requirements. These documents comprise</li> <li>✓ test reports</li> <li>✓ certificates or</li> <li>✓ at least declarations (stating the chemical main component, CAS number, presence and quantity of substances mentioned in the Tchibo RSL/MRSL for each chemical preparation, which is indicated with full trade name)</li> </ul>
	Implement testing procedures to close data lacks
	Select chemical suppliers based on quality of data and documents
	Use ZDHC Gateway Chemical Module for MRSL compliance check
	<ul> <li>Assess chemicals and chemical preparations in use and</li> <li>&gt; In case of non-conformity (chemical preparation contains restricted substance(s) in values above the thresholds defined in Tchibo MRSL): Substitute the chemical preparation by safe alternative or consult Tchibo for further advice.</li> <li>&gt; In case chemical preparation contains restricted substance(s) in values below the thresholds or in case the processed material can meet the threshold values defined by the Tchibo RSL: Control processes and process parameters properly to ensure that the values stay below the defined thresholds. Check residues on the processed material randomly by testing or consult Tchibo for further advise.</li> <li>&gt; In case the chemical preparation contains no restricted substance(s) and</li> </ul>
	no risk of unwanted reaction of a chemical with others is given: The chemical preparation can be used.

	Producer (Wet-Processing)
	CUMENTATION (INVENTORY I SDS) ces of conformity shall be documented properly
	If you have already <b>inventory lists</b> in place, <b>check them on</b> <b>completeness</b> by comparison with the Tchibo chemical inventory list template and integrate additional columns which are missing
	To complete an inventory list you have to <b>collect documents</b> from the chemical producer such as Safety Data Sheets (SDS), producer declarations, test reports etc.
	Ensure that your inventory lists are always up-to-date
	Request SDS (Safety Data Sheets) from your chemical suppliers for all chemicals and chemical preparations, file and update it regularly
	<b>Check SDS on completeness</b> (norm, CAS number, chemical composition, H-Phrases etc.) $\rightarrow$ <b>Reject SDS</b> which do not comply with current legal requirements
	<b>Record the individual recipes</b> (at least for Tchibo orders) stating used colourants and auxiliaries and chemicals with complete trade names, indicate the chemical preparations with exact quantity used for processing the specific order (per colour shade) plus according process parameters such as temperature, pH-value and time
	<b>Document</b> available <b>test reports</b> for incoming material, processed materials as well as for final products
	<b>Documents procedures, training materials and instructions</b> related to Detox and Chemical Management
	Keep documents for an adequate period in accordance with legal storage and product liability obligations
Keepir and er	<b>JSEKEEPING I PROCESSES</b> g a facility clean and organized helps to reduce risks of accidents and exposure to hazardous sure compliance with Detox requirements and further environmental and occupational health & (OHS) regulation

	Producer (Wet-Processing)
	TO DO
	Use proper and clean containers to avoid contamination
	Avoid leakage and spillage in production and storage areas
	<b>Label the containers</b> in storage and production with the full and correct trade name of the chemical preparation, respective warning signs as well as relevant storage and OHS provisions from the SDS
	<b>Install warning notices</b> related to restricted substances e.g. 'Contains PVC' or 'Do not use for baby items'
	<b>Avoid (cross-)contamination</b> of goods in production by appropriate measures such as regular cleaning of machinery and containers, separate processing for goods, etc.
	<ul> <li>Implement clearly defined cleaning routines/ machine downtime to avoid contamination by:</li> <li>secondary auxiliaries such as glue;</li> <li>residues on working material such as screens, tables or squeegees;</li> <li>leavings on Personal Protective Equipment such as gloves;</li> <li>transfer from machinery e.g. during curing</li> </ul>
	Ensure that workers handling chemicals are trained and equipped with adequate personal protective equipment
In the	<b>STE WATER TESTING</b> production processes and at the production site processes for the proper management of water shall be implemented
	Ensure that wastewater is not discharged untreated. Correct treatment has to be ensured either through a functional own effluent treatment plant or a central treatment plant
	Measure the discharged water regularly
	Register with the ZDHC Gateway Wastewater Portal and commission their wastewater test through the platform. Upload of wastewater tests to ZDHC Gateway is mandatory for all tests

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The SDS needs to ....

- be elaborated by a competent party
- be provided in the local language of the customers
- bear a date and be up dated when new information on the chemical becomes available or status of REACH authorization is changed or a relevant restriction is imposed under REACH
- provide technical data for downstream users on product application in view of enabling the user to meet OHS provisions and restrictions/ limitations on chemical substances given in legal standards



# COMMUNICATION

Communication processes with customers have to be implemented and the clear labelling of chemical products has to be ensured

Have a business process in place to actively **provide most recent versions of safety data sheets** to customers

Provide secondary technical instructions on the application of the chemical products to customers – especially in view of meeting market requirements and standards. Upon request declarations against the Tchibo RSL/MRSL need to be made available – based on checking the feasibility of compliance

**Ensure that chemical containers/ drums are clearly labelled** for identification and safe handling such as with complete trade names of the chemical substance/ mixture, respective warning signs/ pictograms and production batch/ lot numbers

Suppliers and producers of chemical products are essential actors to achieve Zero Discharge. Their contribution to the Detox commitment and the given support to their customers (textile producers) are crucial factors in establishing a holistic Chemical Management System to ensure compliance with Tchibo requirements!

**4]** Appendix - Links I Videos I Further Reading



# CPI2

Tchibo has developed several tools to support suppliers and factories to improve their chemical management. Besides this handbook we recommend the online training CPI<sub>2</sub>, a knowledge platform which helps factories to identify improvement potentials and provides concrete guidance.



Register Online: CPI2 (Carbon Performance Improvement Initiative)

### Strategic alliance on sustainable chemical management in the textile production

To promote on-site advisory services, in 2016 Tchibo teamed up with the REWE Group and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) under the develoPPP program by the Federal Ministry for Economic Cooperation and Development to devise and adopt a **qualification programme for chemicals- and water-intensive production** areas. As part of this project, local experts are trained in Bangladesh and China, who then support production plants in the establishment of a chemicals management system. The structures and training concepts developed for this purpose are to be made available to other interested companies and thus contribute to an improvement in the industry. The project will run for three years and has a volume of 2.3 million euros.



### Partnership for Sustainable Textiles

$\mathbf{T}$	View I Download: Chemical Fact Sheet Antimony
₩	View I Download: Chemical Fact Sheet DEHP
₽	View I Download: Chemical Fact Sheet EDTA und DPTA
₩	View I Download: Chemical Fact Sheet Formaldehyde
₽	View I Download: Chemical Fact Sheet PFCs
$\mathbf{F}$	View I Download: Chemical Fact Sheet KMnO4
₩	View I Download: Chemical Fact Sheet Quinoline
<b>\</b> ↓	View I Download: Guideline – Chemical Management

## Partnership for Sustainable Textiles

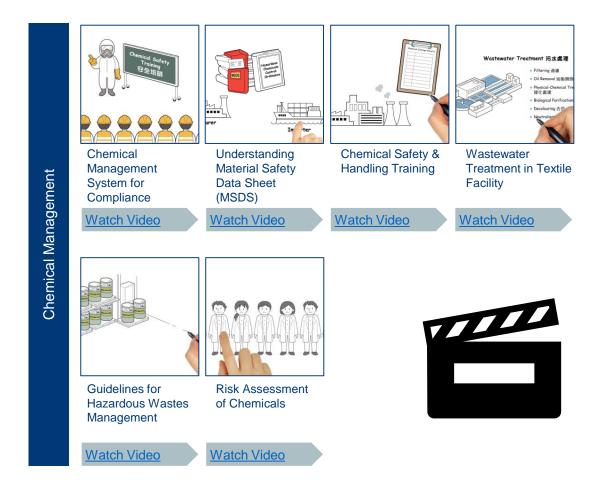
Tchibo is member of the German "Partnership for Sustainable Textiles", a multi-stakeholder initiative with about 150 member brands. The initiative is striving to improve the conditions global textile in the production - from the production of raw goods for textile production to the disposal of textiles.



# VIDEOS

Fur further information we also recommend training videos on better chemical management. The "Clothing Industry Training Authority" (CITA) based in Hong Kong has developed 10 animation videos to learn basic concepts and technical terms related to chemical management systems:











If you need any assistance or if you have any questions do not hesitate to contact us: <a href="mailto:detox@tchibo.de">detox@tchibo.de</a>