



Restricted Substances List

DECATHLON

Restricted Substances List
Version K - 8th January 2018

Revision table

| Version | Page | Family | Deletion/ Update/ Addition |
|---------|------|------------------|--|
| K | All | Not Applicable | New Template for the document Replacement of "appendix" by "annex" Replacement of "Baby" by "Kids", "36 months" by "6 years", "Shoes" by "Footwear" and "Passion Brand" by "Signed sport" |
| K | 6 | Not applicable | Addition of "Endocrine disruptors and radioactive elements" in the scope Addition of "Chemicals" in the scope of specification Addition of "weed", "cat urine" for exemple of unusual odor |
| K | 7 | Not applicable | Update of country regulations exemples |
| K | 8 | Not applicable | Addition "Via Starlims" as the software to test Replacement of "internal tool" by "internally" and of "appendix" by "documents" |
| K | 9 | Not Applicable | Addition of "Or will be exceeded" Addition of "Thank you to list all requirements that cannot be met and to validate them..." |
| K | 10 | Not Applicable | Replacement of "the above chemical management" by "this document" Replacement of "Tick the revelant option" by "cross out as appropriate" Deletion of "Aptonia RSL" |
| K | 11 | Not Applicable | Deletion of Material defintion Clarification on requirement for components/finished good Replacement of "appentix" by "annex" Deletion of "paint, pigments, pastes [...] auxiliaries : refer to MRSL" |
| K | 13 | Not applicable | Replacement of "Regulated" by "Regulations" Addition of "Number" after "CAS" |
| K | 13 | Accelerators | Update of mercaptobenzothiazole limit: From 1000 ppm to 100 ppm Replacement of "2 benzothiazoles" by "3 benzothiazoles" Replacement of "3 sulfenamides" by "5 sulfenamides" Addition of a new substance : 1,3-diphenylguanidine |
| K | 13 | Biocide | Addition of new substances: Isothiazolinones: 50 ppm Addition of a new substanc: Orthophenylphenol: 1000 ppm Replacement of "50 substances" by "53 substances" New Decathlon requirement: 0,5 ppm for pesticides Addition of a new substance: TCMTB: 500 ppm |
| K | 14 | Dyes | Addition of "Their precursors" after "aromatic amines" Addition of new aromatic amines Addition of "Dyes, Forbidden and disperse - 41 substances" Addition of "Switzerland" for Blue Colorant Regulations |
| K | 14 | Flame retardants | Addition of new substances: "Medium Chain Chlorinated Paraffins" and "Long Chain Chlorinated Paraffins" in Flame retardants family Update the number of halogenated compound and Decathlon requirement: 10 ppm Update the number of organophosphorus compounds Update of organophosphorus compounds limit: 10 ppm |
| K | 15 | Foams | Update of Acetophenone azine limit: From 100 ppm to 50 ppm Update of dicumyl peroxyde limit: From 1000 ppm to 500 ppm Addition of "Several" for formamide Update of Decathlon requirement: Ozone depleter gases from 1 ppm to 0,1 ppm |

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|---|-------|----------------------------------|---|
| K | 15 | Free monomers | <p>Addition of Bisphenol S, AF and F in the Free Monomers family: 1 ppm</p> <p>Update Decathlon requirement for BPA migration in toys: 0,04 ppm</p> <p>Addition of new substances: 9 monomers regulated in USA</p> <p>Addition of "USA" for free isocyanates - Content</p> <p>Deletion of phenol requirement: All Components / Finished goods and phenolic resin</p> <p>Update of toys limit: 5 mg/L (migration)</p> <p>Addition of new substance: Acrylonitrile, Vinyl chloride and Vinyl acetate</p> |
| K | 15-17 | Heavy metals | <p>Update of Heavy metals migration limit for toys, components accessible to Kids</p> <p>Update of Antimony compounds limit: From 750 ppm to 500 ppm</p> <p>Addition of a new substance: Barium</p> <p>Update of Cadmium limit: 40 ppm for all Components / Finished goods</p> <p>Update of chromium VI limit: 0,05 ppm in 2019</p> <p>Update of Cobalt migration limit: From 0,88 µg/cm²/week to 0,50 µg/cm²/week</p> <p>Update of Lead limit: 6 ppm for toys to which a lead-based paint, glaze has been applied</p> <p>Update of mercury requirement: 0,5 ppm</p> <p>Update of Nickel migration: From 0,88 µg/cm²/week to 0,50 µg/cm²/week</p> |
| K | 17 | Nitrosamines | Update the number of nitrosamines |
| K | 17 | Others | <p>Addition of a new substance: Butylated hydroxy anisole (100 ppm)</p> <p>Addition of a new substance: Diethyl sulfate (1000 ppm)</p> <p>Addition of a new limit for formaldehyde: Migration for wood products</p> <p>Addition of Paraphenylene Diamine and related compound: 500 ppm in rubber products</p> |
| K | 17 | pH | Addition of requirements for pH |
| K | 18 | Polycyclic Aromatic Hydrocarbons | <p>Addition of a new limit of PAHs for Kids and toys products: (0,2 ppm in 2019)</p> <p>Update the number of Others PAHs</p> |
| K | 18 | PFC | <p>Update of PFOA limit: 25 ppb for PFOA and its salts and 1000 ppb for PFOA - related substances</p> <p>Addition of new substances: PFHxS</p> |
| K | 18 | Phthalates | <p>Update the number of phthalates substances</p> <p>Update the limit of phthalates substances: 500ppm (each) & 1000 ppm (sum)</p> <p>Addition of a new limit for toys and childcare articles (100 ppm)</p> |
| K | 18-19 | Solvent | <p>Addition of new substance : 2 Glycol ethers (1000 ppm)</p> <p>Addition of one chlorinated solvents: Methylene chloride</p> <p>Addition of a new limit for chlorobenzenes and chlorotoluenes: 1 ppm in textile products</p> <p>Addition of a new limit for VOCs: 5 ppm in toys, 5 ppm for benzene and 500 ppm for DMF in others products</p> <p>Addition of new VOCs: From 8 substances to 17 substances</p> |
| K | 19 | UV stabilizers | <p>Addition of a new family: UV stabilizers</p> <p>Addition of new substances: Benzotriazoles (1000 ppm)</p> |
| K | 21 | Biocides | <p>Addition of a new substance: Orthophenylphenol (1%)</p> <p>Update of polychlorophenols limit: 20 ppm in sum</p> <p>Update the number of other pesticides: From 50 to 53 substances</p> <p>Addition of a new substance: TCMTB</p> |
| K | 21 | Dyes | <p>Addition of "Their precursors" after "aromatic amines"</p> <p>Update the number of dyes, forbidden and disperse</p> <p>Addition of "Switzerland" for Blue Colorant Regulations, delete PPD</p> |
| K | 22 | Flame retardants | <p>Addition of new substances: "Medium Chain Chlorinated Paraffins" and "Long Chain Chlorinated Paraffins" in Flame retardants family</p> <p>Update the number of halogenated compound</p> <p>Update of the number of organophosphorus compounds</p> |
| K | 21 | Phthalates | Update the number of phthalates substances |
| K | 21 | Others | 250 ppm for paraphenylene diamine and 5000 ppm for formaldehyde |
| K | 24 | Solvents | Update the number of glycols ether solvents & the number of chlorinated solvents |

SUMMARY

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INTRODUCTION

These chemicals management Specifications have been drafted in application of the production Contract (MSA/GTP) signed between the supplier and DECATHLON Group which form an integral part thereof. Please refer to the annex on more details on restricted substances.

Scope

In general, substances with a category 1 or 2 CMR (Carcinogenic, Mutagenic and/or Toxic to Reproduction) classification as set out by the European Union, must not intentionally be added to all or part of the products manufactured for DECATHLON Group. Moreover, persistent, bio-accumulative and toxic substances (PBTs) and/or very persistent and very bio-accumulative substances (vPvBs), **endocrine disruptors and radioactive elements** must not intentionally be added to all or part of the products manufactured for DECATHLON Group. Such substances **or such materials** must not deliberately be used during the manufacturing process without notifying DECATHLON Group.

Note: Except if required by the technical specifications, the use of biologically active substances (biocides as antibacterial, fungicide...) and of nanoparticles in the materials intended to the products of the DECATHLON Group and their packaging is forbidden.

In particular, these Specifications set out the toxic substances that have been identified to date, by material types, and that must not be present or that must not exceed some thresholds in all and part of the elementary components, semi-finished or finished products manufactured for any company of DECATHLON Group as of 15th February 2018. They are listed by family according to the allowed threshold concentrations and the requested detection method. Additions to these lists of substances may be made every 6 months depending on changes in regulations and or scientific advances.

These Specifications must be followed by all the suppliers of **chemicals**, materials, components and/or finished products of DECATHLON Group.

Products and components manufactured for DECATHLON Group must not have an unusual odour at the end of the manufacturing process (such unusual odours would include fish, fuel, **weed, cat urine**, solvent and mold odours among others).

This refers to all the articles and components, as well as their packaging materials, markings, accessories and all treatments and finishing applied during the process.

Some regulations refer to a direct and prolonged contact with the skin.

In general, all components that are likely to come into contact with the skin for longer than 30 minutes per week under normal conditions of use must be considered to be in direct and prolonged contact with the skin.

For products aimed at children aged **6 years** or less (**kids** products), all accessible components are likely to come into direct and prolonged contact with the skin (or be put in the **kid's** mouth).

Some regulations refer to food contact. DECATHLON Group considers that all components made to be in contact with food (liquid or solid) and all food packagings are in food contact.

Restricted Substances

Some chemical substances used in the manufacturing of the articles set out above may be harmful to human health and the environment. Consequently, some countries have adopted regulations that aim to reduce the use of these substances during the manufacturing process and/or reduce the presence of these substances in the finished articles themselves.

The list of prohibited or restricted substances in the present section is therefore based on currently applicable regulations in the countries in which DECATHLON Group sells its products, namely but not limited to, and not including future regulation evolutions:

• European Union

Regulation REACH 1907/2006 EU amending Council Directive 76/769/EEC.
Regulation 2004/850/EU on persistent organic pollutants
Decision 2009/425 of Commission on organostannic compounds.
Directive 2009/48/EU on toys safety
Directive **2016/425/EU** on personal protective equipment
Regulation 10/2011/EU on food contact
Directive **2015/863 on RoHS 3...**

• France

Decree 91-1292 pertaining to childcare articles
Decree of 13/01/1976 pertaining to stainless steel materials and objects that come into contact with food.
Decree of 27 August 1987 pertaining to materials and objects made of aluminium or aluminium alloy that come into contact with food or drink.

Decree of 09/11/1994 pertaining to rubber materials and objects that are intended to come into contact with food...

• Czech Republic

Ministerial decree No. 84/2001 Coll. Of 08 February 2001.

• Poland

Decree of 6 April 2004 on the safety and marking of fabric products.

• Germany

Ruling of 20/10/1993 and LMBG law of 16/07/1993 § 30 ...

• China

GB 30585 Children's footwear (applicable Jan 2016),
GB31701 Infant & children textile (app. June 2016)
FZ/T 81014-2008 regulations
Chinese Food Safety Law February 28th, 2009
GB 25036 & GB 25038 (Adult, Infant and Babies shoes with rubber soles)...

• USA

CPSIA – Consumer Product Safety Improvement Act - 2008
Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
The Toxic Free Kids Act' (Chapter 37, HF 2123, 2009 ...

• Turkey

KKDIK, 2017
Communiqué No. 26.392 of 30.12.2006
Communiqué of 04,10,2012 of Ministry of Economy

• Russia

SanPiN 2.4.7./1.1.1286-03
CU TR 007/2011, CU TR 017/2011

• **Thailand, India, Brasil, Taiwan, Japan, United Arab Emirates, Slovakia, Canada, South Africa, Australia, Switzerland, Vietnam, Indonesia, Korea, Egypt...**

The thresholds mentioned are expressed in:

ppm = mg/kg (parts per million = milligrams of substance per kilogram of component)

ppb = µg/kg (parts per billion = micrograms of substance per kilogram of component)

µg/m² (= micrograms of substance per square metre) of homogeneous component (i.e. PFOS)

µg/cm²/week (= micrograms of substance liberated per square centimetre of homogeneous component per week), i.e. **Nickel or Cobalt**.

Responsibilities

The supplier of DECATHLON Group is responsible for ensuring that the components, materials and chemical substances used are complying with the requirements of DECATHLON Group.

In order to do so, it may have to ensure that its own suppliers follow DECATHLON Group' Specifications and check compliance:

- With a compliance agreement document with the supplier
- Or regular test reports of its supplier
- Or by inspecting incoming goods.

Within the framework of REACH, the supplier must send us a declaration of the SVHC (Substances of Very High Concern) content in each component and article ordered by any company of DECATHLON Group when shipped (NB: components on articles are considered as article).

The list of SVHC substances is updated every 6 months.

Link to the REACH candidate list:

<https://echa.europa.eu/candidate-list-table>

For the substances added after 1st January 2018 to the candidate list and not present in the specifications, the supplier must take them into account and not exceed the 1000 ppm threshold in each component and article ordered by any company of DECATHLON Group.

Checking Procedure

DECATHLON Group has set up an inspection procedure to ensure the compliance of these Specifications by the supplier.

The supplier agrees to pay for the costs of the chemical analyses (except otherwise agreed with DECATHLON Group in writing) to be carried out on the products it supplies to DECATHLON Group according to the frequency set out below. These analyses must be conducted (**Via Starlims**) by the relevant entity of DECATHLON Group following the standards set out for each substance family in approved laboratories (The list of approved laboratories is available on request at the relevant department of DECATHLON Group).

- The entity of DECATHLON Group takes a sample of the components or finished products to be tested, from the supplier and sends **it** to the laboratory. This sample must come from a recent production run. The sample must be sent in a sealed plastic bag and be shielded from light.
- The number of components or finished products to be tested and the testing frequency are defined **internally** and are communicated to the supplier by the entity of DECATHLON Group.
- The testing frequency may be revised, depending on the results obtained in previous tests (for example: for results that turn out to be non-compliant, tests are undertaken more frequently at the supplier's expense) and/or depending on the administrative requirements of the distribution countries of DECATHLON Group.
- The component or finished product to be tested is checked according to the substances that it is liable to contain (**See PRSL table and Annex**).

All analysis reports must incorporate a version that is written in English.

Tests carried out by the supplier do not replace tests carried out by the DECATHLON Group representative.

COMMENTS

Thresholds

If it emerges that the thresholds laid down for one or more of the substances listed in the attached documents have been exceeded **or will be exceeded** on one or more products manufactured for DECATHLON Group, the supplier agrees to notify to Decathlon representative the following for each substance concerned:

- the name and CAS number of the substance,
- the references of the components concerned,
- the references of the finished products concerned,
- the level (in ppm or mg/kg) of the substance contained in each component concerned,
- the date on which substitution is planned.

Thank you to list all requirements that cannot be met and to validate them with DECATHLON Group Production Office

Please also declare the SVHC substances and the solvents (refer to MRSL) used during production.

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Validation of above modifications by the DECATHLON Group Production Office

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|--------------------------------------|--|---|
| DECATHLON Group Production Office | NAME of Production Office Process Manager | SIGNATURE of Production Office Process Manager |
|--------------------------------------|--|---|

SIGNATURE

Compliance Commitment & Signature

By signing this compliance commitment, the Supplier hereby certifies to have received, read and understood **this document** and undertakes to comply with its contents as well as to meet the requirements of the following appendices (**Cross out as appropriate**):

| | |
|--|--------------------------------------|
| Manufacturing Restricted Substances List - MRSL (Mandatory) | Concerned / Not Concerned |
| Product Restricted Substances List - PRSL (Mandatory) | Concerned / Not Concerned |
| Waste Water Restricted Substances List (Optional for some processes*) | Concerned / Not Concerned |
| Food Contact Specific requirements (Optional) | Concerned / Not Concerned |

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|--|---|
| Place: | Date: |
| Supplier Company Name: | Supplier No. (All numbers of Supplier Code provided by Decathlon Group): |
| Name of the signatory: (First Name and Last Name of the person authorized to commit the Supplier) | Position of the signatory: |
| Signature: | Supplier Company Stamp: |

** Compulsory for all the suppliers concerned by Environment assessment with risky processes: Dyeing, printing/washing, metal surface treatment, metal painting and leather tannery...*

DEFINITIONS & EXPLANATIONS

Annex: Detailed explanations on all substances, including their general use, health hazards, regulations, requirements and test method.

MRS�: Manufacturing Restricted Substances List addresses hazardous substances potentially used and discharged into the environment during manufacturing and related processes, not just those substances that could be present in finished products. It applies to prints, paints, inks, dyes, auxiliaries, surface treatments, induction preparations,... and more generally speaking all preparations & mixtures.

PRSL: Product Restricted Substances List limits the hazardous substances in the components, semi finished, finished goods & packaging.

If you do not know how your component / finished good will be used (Decathlon Scope), thank you to follow the most restrictive requirement.

Limit Value: Maximum allowed value of hazardous substances in preparations, mixtures and components, semi finished & finished goods.

Kid: products for < 6 years old or footwear in size < 32 .

Tween: products for 8 to 14 years old.

Toys: are mainly defined, designed, exclusively or not to play for children under 14 years old. Special care should be paid for toys for kids < 6 years old as mouthing behaviour is likely.

Skin contact: are concerned any components in contact with the skin for more than 30 minutes per week.

Mouth contact: are concerned any components which are conceived to be put into the mouth (gumshield, whistle,...). All food contact products are excluded from this category and dealt with Food contact RSL **annex**.

Eye contact: are concerned all components close to the eyes such as ski masks, swimming goggles, sunglasses.

Food contact product (for human beings and animals):

Materials and articles which:

- are intended to be brought into contact with food;
- are already in contact with food and were intended for that purpose;
- can reasonably be expected to be brought into contact with food or to transfer to food under normal or foreseeable conditions of use.

Declarations of compliance (DoC) :

It is a document which is given by a supplier to a customer that stipulates that the materials and/or the finished good is compliant with the applicable food contact regulations. It exists 3 types of Declaration of Compliance:

- Raw Material DoC for material: document completed by the raw material supplier given to the finished good supplier.
- Supplier DoC for finished good: document completed by the finished good supplier given to Decathlon.
- **Signed sports** DoC for finished good: document completed by the **Signed Sports**. To be given to authorities, customs or customers.

Organoleptic properties : They are the aspects of food or other substances as experienced by the senses, including taste, sight, smell, and touch. These food properties must not be altered by the materials in contact with it.

PRODUCTS RESTRICTED SUBSTANCES LIST (PRSL)

Based on AFIRM RSL (<http://www.afirm-group.com/>)

| Update / New | Name | CAS number | Decathlon Scope | Limit value | Regulation | STARLIMS code |
|--|--|------------------------|---|----------------------------------|---------------------------------|---------------|
| Accelerators | | | | | | |
| Update | Benzothiazoles - Mercaptobenzothiazole | 149-30-4 | All Components / Finished goods in skin contact | 100 ppm | Not regulated | DS0836 |
| Update | Benzothiazoles - 3 substances | Refer to annex | | | | |
| | Dithiocarbamates - 2 substances | 137-30-4 14324-55-1 | | | | |
| | Ethylene thiourea (Imidazolidine) | 96-45-7 | | | | |
| Update | Sulfenamides - 5 substances | Refer to annex | | | | |
| | Thiurams - 2 substances | 97-74-5 137-26-8 | | | | |
| New | 1,3-diphenylguanidine | 102-06-7 | | | | |
| | | | | 1000 ppm | Russia & USA | |
| Alkyphenols and their ethoxylates | | | | | | |
| | Nonylphenols and their ethoxylates OctylPhenols and their Ethoxylates (AFIRM) | Refer to annex | All Components / Finished goods | 100 ppm | Europe & Turkey | DS0653 |
| Biocides | | | | | | |
| | Dimethylfumarate (AFIRM) | 624-49-7 | All Components / Finished goods | 0,1 ppm | Several | DS0434 |
| New | Isothiazolinones - 5 substances | Refer to annex | | | | |
| New | Orthophenylphenol (AFIRM) | 90-43-7 | | | | |
| Update | Polychlorophenols | Refer to annex | | | | |
| Update | Other Pesticides - 53 substances (AFIRM) | Refer to annex | | | | |
| | 2-(thiocyanomethylthio)-benzothiazole (TCMTB) | 21564-17-0 | | | | |
| | | | | | 0,5 ppm (AFIRM) 0,05 for PCP | Several |
| | | | | 0,5 ppm each 0,05 ppm for DDT | Several | DS0623 |
| | | | | 500 ppm | Not regulated | DS0836-12 |

Dyes

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|--------|---|----------------|---------------------------------|--------|---------|--------|
| Update | Aromatic Amines and their precursors - 25 substances (AFIRM) | Refer to annex | All Components / Finished goods | 20 ppm | Several | DS0433 |
| | Dyes, Forbidden and disperse - 42 substances | | | 20 ppm | | |
| | Blue Colorant - 2 substances | 118685-33-9 | | 20 ppm | | |

Flame retardants

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|--------|--|---|-----------------------------------|-------------------------------|---------------|--------|
| Update | Short Chains Chlorinated Paraffins (Chloroalcans C10 to C13) (AFIRM) | 85535-84-8 | All Components / Finished goods | 1000 ppm (250 ppm in 2020) | Europe | DS0410 |
| New | Medium Chains Chlorinated Paraffins (Chloroalcans C14 to C17) (AFIRM) | 85535-85-9 | | 1000 ppm | Not regulated | |
| New | Long Chains Chlorinated Paraffins (Chloroalcans > C17) | 85535-86-0 | | 1000 ppm | Not regulated | |
| Update | Halogenated compounds - 11 substances | Refer to annex | All Components / Finished goods | 10 ppm (AFIRM) | Several | |
| | Halogenated compounds - HBCDD, PBB, PBDE | 25637-99-4 59536-65-1 32534-81-9 | All electronic components | 100 ppm | Europe | |
| Update | Organophosphorus compounds - 12 substances (AFIRM) | Refer to annex | All Components / Finished goods | 10 ppm (AFIRM) | Several | |
| | | | All Toys & Kids & Tweens articles | 5 ppm | Europe & USA | |
| | PCBs & PCTs | Refer to annex | All electronic components | 100 ppm | Europe | |
| | | | Other components / Finished Goods | 50 ppm | | |

(Chemicals found in) Foams

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|--------|--|----------------|-----------------------------------|----------|---------------|-----------|
| Update | Acetophenone azine | 729-43-1 | All components / Finished Goods | 50 ppm | Not regulated | DS0609-06 |
| | Diazene-1,2-dicarboamide (C,C'-azodi(formamide)) | 123-77-3 | | 1000 ppm | Europe | DS0609-04 |
| Update | Dicumyl Peroxide | 80-43-3 | | 500 ppm | Not regulated | DS0609-05 |
| Update | Formamide | 75-12-7 | Kids and Toys | 200 ppm | Several | DS0609-01 |
| | | | Other components / Finished Goods | 1000 ppm | Europe | |
| Update | Ozone Depleter Gases (AFIRM) | Refer to annex | All components / Finished Goods | 0,1 ppm | Several | DS0404-03 |

Free Monomers

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|--------|--|-----------------------|---------------------------------|------------------|---------------|--------|
| New | Acrylonitrile | 107-13-1 | All Components / Finished goods | 10 ppm | Russia & USA | DS0986 |
| Update | Bisphenol A, S - Content (AFIRM) | 80-05-7 80-09-1 | All Components / Finished Goods | 1 ppm | Europe | |
| New | Bisphenol F & AF - Content | 620-92-8 1478-61-1 | All Components / Finished Goods | 1 ppm | Not regulated | DS0654 |
| Update | Bisphenol A - migration | 80-05-7 | Toys | 0,04 ppm | Europe | |
| New | Free monomers - migration 9 substances | Refer to annex | All Components / Finished goods | 50 ppm | USA | DS0986 |
| Update | Free isocyanates - Content | Refer to annex | All PU components & elastane | 100 ppm for sum | Europe & USA | DS0679 |
| Update | Free phenol | 108-95-2 | Toys | 5 mg/L or 10 ppm | Europe | DS0408 |
| New | Vinyl acetate | 108-05-4 | All Components / Finished goods | 0.2 ppm | Russia | DS0518 |
| New | Vinyl chloride (AFIRM) | 75-01-4 | All Components / Finished goods | 1 ppm | Egypt & China | DS0517 |

Heavy metals

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|--------|---|-------------------------------------|---|--|-------------------------|-----------------------------------|
| Update | Migration of Heavy Metals - 19 elements (Acid migration) | | Toys, components accessible to Kids | Refer to annex | Several | DS0403-02 EN 71-3 |
| | Migration of Heavy Metals - 10 elements (Sweat migration) (AFIRM) | Refer to annex | Clothes and Footwear for Kids | Refer to annex | Based on Czech Republic | DS0403-01 |
| | | | Clothes and Footwear for Adult & Tweens | | Based on Russia | |
| | Content of Heavy Metals - Lead, Cadmium, Chromium VI, Mercury | Refer to annex | Packaging materials | sum < 100 ppm | Europe | DS0625 acid digestion + ICP-MS |
| | | | Batteries | sum < 500 ppm | | |
| | | | All electronic components | 1000 ppm Pb, Cr VI, Hg Cd: 100 ppm | | |
| Update | Antimony compounds - Content | 1309-64-4 7440-36-0 1345-04-6 | All Components / Finished goods | 500 ppm | Several | |
| | Arsenic - Content (AFIRM) | 7440-38-2 | All Components / Finished goods | 100 ppm | Several | |
| New | Barium - Content (AFIRM) | 7440-39-3 | | 1000 ppm | | |

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|--------|--|----------------|--|--------------------------------------|------------------|--|
| Update | Boron compounds - Content 3 substances | Refer to annex | All Components / Finished goods | 1000 ppm | Several | |
| Update | Cadmium - Content (AFIRM) | 7440-43-9 | All Components / Finished goods | 40 ppm | Several | DS0625 acid digestion + ICP-MS |
| | | | Batteries | 20 ppm | Taiwan | |
| Update | Chromium VI Compounds - Content (AFIRM) | 18540-29-9 | All Components / Finished goods | 3 ppm | Several | DS0421 |
| | Cobalt - Content 5 substances | 7440-48-4 | All Components / Finished goods | 300 ppm | Europe | DS0625, acid digestion + ICP-MS |
| Update | Cobalt - Migration | 7440-48-4 | All metallic components in direct contact with skin (except glasses) | 0,50 µg/cm ² / week | Not regulated | DS0403-06 |
| Update | | | Components of glasses in direct contact with skin | | | DS0403-07 |
| Update | Lead - Content (AFIRM) | 7439-92-1 | All Components / Finished goods except recycled metals | 90 ppm | Several | DS0625 acid digestion + ICP-MS |
| | | | Toys to which a lead-based paint, glaze has been applied | 6 ppm | USA | |
| | | | Recycled metals | 500 ppm | Europe | |
| | Mercury - Content (AFIRM) | 7439-97-6 | All Components / Finished goods | 0,5 ppm | Several | |
| Update | Nickel release (AFIRM) | 7440-02-0 | All metallic components in direct contact with skin (except glasses) | 0,50 µg/cm ² / week | Several | DS0403-04 |
| | | | Components of glasses in direct contact with skin | | | DS0403-05 |

Nitrosamines

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|--------|--|----------------|---|--------------------|------------------|----------------------|
| Update | Nitrosamines - Content 36 substances (AFIRM) | Refer to annex | Toys | 0,05 ppm | Europe | DS0438 EN 71-12 |
| | | | Kids, mouth and eye contact & Tweens outsole | 0,5 ppm (AFIRM) | China | DS0438 GB/T 24153 |
| | | | Skin contact | 5 ppm | Not regulated | |
| | | | Others components / Finished goods | 50 ppm | | |

| Organotins | | | | | | |
|----------------------------------|--|------------------------|---|----------------------------|---------------|-------------------|
| | All organotin compounds (AFIRM) | Refer to annex | Textile apparel, Kid, mouth and eye contact | 0,5 ppm | Several | DS0486 |
| | | | Toys | 12 ppm (sum) | Europe | DS0486-04 EN 71-3 |
| | | | Skin contact | 50 ppm (sum) | Not regulated | DS0486 |
| | | | Others components / Finished goods | 200 ppm (sum) | | |
| Others | | | | | | |
| New | BHT & BHA | 128-37-0 25013-16-5 | All Components / Finished goods | 100 ppm | Not regulated | DS0409 |
| Update | Benzyl benzoate | 120-51-4 | | 1000 ppm | | DS0407 |
| New | Diethyl sulfate | 64-67-5 | | 1000 ppm | Europe | DS0987 |
| | Formaldehyde - Content (AFIRM) | 50-00-0 | Kid Products - Clothes & Footwear | 16 ppm (AFIRM) | Several | DS0417 |
| | | | Adult & Tween Products - Skin contact | 75 ppm (AFIRM) | | |
| | | | No skin contact | 300 ppm | | |
| New | Formaldehyde - Emission | 50-00-0 | Wood products | 0,05 ppm | USA | DS0417 |
| New | Paraphenylene Diamine and related compounds - 7 substances | Refer to annex | Rubber products | 500 ppm | Switzerland | DS0433 |
| pH | | | | | | |
| New | pH | N/A | Textile products | 4.0 - 7.5 | Several | DS0487-01 |
| New | pH | N/A | Leather products | 3.5 - 7.0 | Several | DS0487-02 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Update | PAHs 8 substances (Europe) (AFIRM) | Refer to annex | Kids and Toys Products | 0,5 ppm (0,2 ppm in 2019) | Europe | DS0437 |
| | | | Adult & Tween Products - Skin contact | 1 ppm (each) | | |
| | PAHs 16 substances (Taiwan) (AFIRM) | Refer to annex | All Components / Finished goods | 10 ppm (sum) BaP: 1 ppm | Taiwan | |
| Update | All PAHs - 40 substances | Refer to annex | | 100 ppm | USA | |

Perfluorocarbons

| | | | | | | |
|--------|----------------------------|----------------|---------------------------------|---------------------|----------|--------|
| | PFOS and its salts (AFIRM) | Refer to annex | Textile and coated materials | 1 µg/m ² | Europe | DS0404 |
| | | | Leather & Others components | 25 ppb | | |
| Update | PFOA and its salts (AFIRM) | Refer to annex | All Components / Finished goods | 25 ppb | | DS0404 |
| | PFOA - related substances | | | 1000 ppb | | |
| New | PFHxS | Refer to annex | | | 1000 ppb | Europe |

Phthalates

| | | | | | | |
|--------|------------------------------------|----------------|---------------------------------|---|---------|--------|
| Update | Phthalates - Content 22 substances | Refer to annex | All Components / Finished goods | 500ppm (each) 1000 ppm (sum) (AFIRM) | Several | DS0431 |
| New | | Refer to annex | Toys and childcare articles | 100 ppm | USA | |
| | Phthalates - Content 4 substances | Refer to annex | All electronic components | 1000 ppm (sum) | Europe | |

Solvents

| | | | | | | |
|--------|---|--------------------------------|---------------------------------------|----------------------------------|-----------------|--------|
| New | Glycol ethers - EGDME & TEGDME | 110-71-4 112-49-2 | All Components / Finished goods | 1000 ppm | Europe (SVHC) | DS0407 |
| Update | Chlorinated solvents - Tetrachloroethylene Trichloroethylene Methylene chloride | 79-01-6 127-18-4 75-09-2 | All Components / Finished goods | 100 ppm | Japan & USA | DS0407 |
| New | Chlorobenzenes and chlorotoluenes - 34 substances (AFIRM) | Refer to annex | All textile components/ Finished good | 1 ppm | Not regulated | DS0407 |
| New | VOCs - 17 substances | Refer to annex | Toys | 5 ppm | Europe & Turkey | DS0407 |
| New | | 71-43-2 68-12-2 | All Components / Finished goods | 5 ppm (Benzene) 500 ppm (DMF) | Europe | |
| New | | Refer to annex | All Components / Finished goods | 1000 ppm | Europe (SVHC) | |

UV stabilizers

| | | | | | | |
|-----|-------------------------------|----------------|---------------------------------|----------|---------------|-----------|
| New | Benzotriazoles - 4 substances | Refer to annex | All Components / Finished goods | 1000 ppm | Europe (SVHC) | DS0992 |
| | Drometrizole | 2440-22-4 | All Components / Finished goods | 100 ppm | Not regulated | DS0770-01 |

MANUFACTURING RESTRICTED SUBSTANCES LIST (MRSL)

This document is based on the ZDHC MRSL. For more details, please refer to:

<http://www.roadmaptozero.com/programme/manufacturing-restricted-substances-list-mrsl-conformity-guidance/>

The MRSL addresses hazardous substances potentially used and discharged into the environment during manufacturing and related processes, not just those substances that could be present in finished products.

The MRSL should be communicated to raw material suppliers, including wet-processing facilities and sub-contractors and factories assembling or manufacturing garments and footwear.

The MRSL does not replace restrictions on hazardous substances in finished products (refer to PRSL).

Chemicals on the MRSL include ingredients potentially used in cleaners, solvents, adhesives, stabilizers, paints, inks, detergents, dyes, pigments, auxiliaries, coatings and finishing agents used for wet-processing, maintenance, wastewater treatment, sanitation and pest control. There should be no intentional use of the MRSL-listed substances in facilities that process materials used in the production of apparel and footwear. MRSL limits apply to substances in commercially available chemical formulations and not those from earlier stages of chemical synthesis.

Note: Threshold Limit values on restricted substances in chemical formulations are in some cases substantially higher than limits on restricted substances in finished products. This is because substances in finished products are usually found in smaller concentrations than in the chemical formulations used to produce them. Chemical formulations are highly concentrated before dilution upon application to textiles and other materials.

Example of chemical concerned by the MRSL :

Paints, pigments, pastes, prints, inks, dyes, dyestuffs, prints, surface treatments, varnishes, auxiliaries, process oils, catalysts, accelerators...

| Update /New | ZDHC ? | Name | CAS | Decathlon Scope | Limit value | Regulated ? | STARLIMS code |
|---|--------|---|---------------------|--|---------------|---------------|---------------|
| Alkylphenols and their ethoxylates | | | | | | | |
| | ZDHC | Nonylphenols (NPs) and OctylPhenols (OPs) | Refer to annex | All Chemicals & Preparations | 250 ppm | Europe | DS0653 |
| | ZDHC | Nonylphenols ethoxylates (NPEOs) & OctylPhenols Ethoxylates (OPEOs) | Refer to annex | | 500 ppm | Europe | |
| Biocides | | | | | | | |
| | | Dimethylfumarate | 624-49-7 | All Chemicals & Preparations | 0,1 ppm | Europe | DS0434 |
| New | | Orthophenylphenol | 90-43-7 | All Chemicals & Preparations used on textile & leather | 1 % | Not regulated | DS0408 |
| | ZDHC | Polychlorophenols - Tetrachlorophenol & pentachlorophenol | Refer to annex | All Chemicals & Preparations | 20 ppm in sum | Several | DS0419 |
| Update | ZDHC | Polychlorophenols - 2,4,6-trichlorophenol & 3,5-dichlorophenol | 88-06-2 591-35-5 | All Chemicals & Preparations | 20 ppm in sum | | |
| | ZDHC | Polychlorophenols - Mono-, di- and tri-chlorophenol | Refer to annex | All Chemicals & Preparations | 50 ppm in sum | | |
| Update | | Other Pesticides- 53 substances | Refer to annex | All Chemicals & Preparations used on natural fibers & leathers | 1000 ppm | Several | DS0623 |
| New | | 2-(thiocyanomethylthio)-benzothiazole | 21564-17-0 | All Chemicals & Preparations | 1000 ppm | Not regulated | DS0836-12 |
| Dyes | | | | | | | |
| Update | ZDHC | Aromatic Amines and their precursors -25 substances | Refer to annex | All Chemicals & Preparations | 150 ppm | Several | DS0433 |
| Update | ZDHC | Dyes, Forbidden and disperse - 42 substances - | | | 250 ppm | | |
| | ZDHC | Blue Colorant | 118685-33-9 | All Chemicals & Preparations | 250 ppm | Several | DS0433 |

Flame retardants

| | | | | | | | |
|--------|------|---|----------------|------------------------------|---------------------------------------|---------------|--------|
| | ZDHC | Short Chains Chlorinated Paraffins (Chloroalcans C10 to C13) | 85535-84-8 | All Chemicals & Preparations | 50 ppm (textile) 250 ppm (leather) | Europe | DS0410 |
| New | | Medium Chains Chlorinated Paraffins (Chloroalcans C14 to C17) | 85535-85-9 | All Chemicals & Preparations | 50 ppm (textile) 250 ppm (leather) | Not regulated | DS0410 |
| New | | Long Chains Chlorinated Paraffins (Chloroalcans > C17) | 85535-86-0 | | | | |
| Update | ZDHC | Halogenated compounds 11 substances | Refer to annex | | | | |
| Update | ZDHC | Chlorinated organophosphorus 10 substances | Refer to Annex | | 250 ppm | Several | |
| | | PCBs & PCTs | 1336-36-3 | | | Europe | |

(Chemicals found in) Foams

| | | | | | | | |
|--|--|----------------------|----------------|--|----------|--------------|--------|
| | | Dinitrotoluene | 121-14-2 | All Chemicals & Preparations used during PU foam process | 1% | Europe & USA | DS0609 |
| | | Ozone Depleter Gases | Refer to annex | All Chemicals & Preparations | 1000 ppm | Several | DS0404 |

Heavy metals

| | | | | | | | |
|--|------|--|----------------|--|-----------------------------|-------------------|--------|
| | ZDHC | Arsenic - Content | 7440-38-2 | All Chemicals & Preparations except glass fibers & glass beads | 50 ppm | Europe | DS0625 |
| | | Boron compounds - Content 3 substances | Refer to annex | All Chemicals & Preparations | 1000 ppm | | |
| | ZDHC | Cadmium - Content | 7440-43-9 | | 20 ppm (50 ppm in pigments) | Several | DS0625 |
| | ZDHC | Chromium VI Compounds - Content | 18540-29-9 | | 10 ppm | Europe and Taiwan | DS0421 |
| | | Cobalt Compounds - Content 5 substances | Refer to annex | | 1000 ppm | Europe | DS0625 |
| | ZDHC | Lead - Content | 7439-92-1 | All Chemicals & Preparations | 100 ppm | Europe & Canada | DS0625 |
| | ZDHC | Mercury - Content | 7439-97-6 | | 4 ppm (25 ppm in pigments) | Worldwide | |

Organotin

| | | | | | | | |
|--|------|------------------------------|----------------|------------------------------|--------|---------|--------|
| | ZDHC | Organotins - Dibutyltin | 1002-53-5 | All Chemicals & Preparations | 20 ppm | Several | DS0486 |
| | ZDHC | Organotins - Other compounds | Refer to annex | | 5 ppm | | |

Others

| | | | | | | | |
|--------|--|--|----------------|------------------------------|----------|----------------|--------|
| | | Benzyl benzoate | 120-51-4 | All Chemicals & Preparations | 1% | Not regulated | DS0409 |
| Update | | Formaldehyde - content | 50-00-0 | | 5000 ppm | Several | DS0417 |
| | | Hydrazine | 302-01-2 | | 1% | Europet (SVHC) | DS0609 |
| | | TGIC | 2451-62-9 | | 5% | Europe (SVHC) | DS0706 |
| Update | | Paraphenylene Diamine and related compounds - 7 substances | Refer to annex | | 500 ppm | Not regulated | DS0423 |

Polycyclic Aromatic Hydrocarbons

| | | | | | | | |
|--|------|-------------------------|----------------|------------------------------|---------------|---------------|--------|
| | ZDHC | PAHs - Benzo(a)pyrene | 50-32-8 | All Chemicals & Preparations | 20 ppm | Europe | DS0437 |
| | | PAHs - Naphthalene | 91-20-3 | | 200 ppm | Europe | |
| | | PAHs - Other substances | Refer to annex | | sum < 200 ppm | Not regulated | |

Perfluorocarbons

| | | | | | | | |
|--|------|---|----------------|------------------------------|-------|--------|--------|
| | ZDHC | Perfluorooctane sulfonate (PFOS) and related substances | Refer to annex | All Chemicals & Preparations | 2 ppm | Europe | DS0404 |
| | ZDHC | Perfluorooctanoic acid (PFOA) and related substances | Refer to annex | | 2 ppm | | |

Phthalates

| | | | | | | | |
|--------|------|------------------------------------|----------------|------------------------------|---------------|---------|--------|
| Update | ZDHC | Phthalates - Content 22 substances | Refer to annex | All Chemicals & Preparations | sum < 250 ppm | Several | DS0431 |
|--------|------|------------------------------------|----------------|------------------------------|---------------|---------|--------|

Solvents

| | | | | | | | |
|--------|------|---|--|---------------------------------|---------------------------------|---------|--------|
| Update | ZDHC | Glycols ether - 8 substances | Refer to annex | All Chemicals & Preparations | 50 ppm | Europe | DS0407 |
| | ZDHC | Glycols ether - 2-methoxypropylacetate | 70657-70-4 | | 50 ppm (1000 ppm leather) | | |
| | ZDHC | Chlorinated solvents - Trichloroethylene | 79-01-6 | | 40 ppm | Several | DS0407 |
| Update | ZDHC | Chlorinated solvents - Tetrachloroethylene methylene chloride 1,2-dichloroethane | 107-06-2 75-09-2 127-18-4 | | 5 ppm | | |
| | ZDHC | All other chlorinated solvents | Refer to annex | | 1000 ppm | | |
| | ZDHC | Chlorobenzenes and chlorotoluenes - 1,2 Dichlorobenzene | 95-50-1 | | 1000 ppm | | |
| | ZDHC | All other chlorobenzenes and chlorotoluenes | Refer to annex | | 200 ppm for the sum | Europe | DS0407 |
| | ZDHC | VOCs - Benzene | 71-43-2 | | 50 ppm | | |
| | ZDHC | VOCs - Xylene, o-cresol, m-cresol, p-cresol | 1330-20-7 95-48-7 106-39-4 106-44-5 | | 500 ppm | Several | DS0407 |
| Update | | VOCs - All other substances | Refer to annex | | >1000 ppm Declara- -tion | | |

UV stabilizers

| | | | | | | | |
|--|--|--------------|-----------|---------------------------------|----------|------------------|--------|
| | | Drometrizole | 2440-22-4 | All Chemicals & Preparations | 1000 ppm | Not regulated | DS0770 |
|--|--|--------------|-----------|---------------------------------|----------|------------------|--------|

To protect the health of the workers, it is also recommended to pay extra attention when using the following substances and, if possible to substitute them.

If their use is mandatory, workers should be aware of the danger and correctly protected.

These recommendations are given for your information and do not substitute local regulations.

For more details, please refer to : <https://www.dir.ca.gov/title8/ac1.pdf>

Recommendation on Solvents (Non-exhaustive list)

| Family | CAS number | Name | Time Weighted Average (TWA) air exposure limits are for a normal eight (8) hour workday and a forty (40) hour work-week |
|----------------------------|---------------------------------|-------------------------|---|
| Chlorinated Solvents | 79-01-6 | Trichloroethylene | 10 ppm |
| | 127-18-4 | Tetrachlorethylene | 25 ppm |
| | 542-88-1 | Bis(chloromethyl) ether | 0,001 ppm |
| | 75-09-2 | Dichloromethane | 25 ppm |
| Volatile Organic Compounds | 71-43-2 | Benzene | 1 ppm |
| | 1330-20-7 | Xylene | 100 ppm |
| | 95-48-7 | o-cresol | 5 ppm |
| | 108-39-4 | m-cresol | 5 ppm |
| | 106-44-5 | p-cresol | 5 ppm |
| | 110-54-3 | n-hexane | 50 ppm (skin) |
| | 68-12-2 | Dimethylformamide | 10 ppm (skin) |
| | 141-78-6 | ethyl acetate | 400 ppm |
| | 108-88-3 | Toluene | 10 ppm |
| | 107-21-1 | Ethylene glycol | 40 ppm |
| | 67-56-1 | Methanol | 200 ppm (skin) |
| | 106-99-0 | Butadiene | 1 ppm |
| | 100-41-4 | Ethylbenzene | 5 ppm |
| | 100-40-3 | Vinylcyclohexene | 0,1 ppm |
| | 127-19-5 | Dimethylacetamide | 10 ppm (skin) |
| | 64-19-7 | Acetic acid | 10 ppm |
| | 1310-73-2 | Sodium hydroxide | 2 mg/m3 |
| | 50-00-0 | Formaldehyde | 0.75 ppm |
| | 872-50-4 | n-Methyl-2- pyrrolidone | 1 ppm |
| | 109-99-9 | Tetrahydrofuran | 200 ppm |
| 78-93-3 | Methyl ethyl ketone butanone | 200 ppm | |
| 110-82-7 | Cyclohexane | 300 ppm | |
| 108-94-1 | Cyclohexanone | 20 ppm | |

| | | | |
|---------------|--------------------------|-------------------------|------------|
| | 123-86-4 | Butyl acetate | 150 ppm |
| Dust & powder | N.A | General dust and powder | 10 mg/m3 |
| | 14808-60-7 14464-46-1 | Silica, crystalline | 0.05 mg/m3 |
| | 1310-73-2 | Sodium hydroxide | 2 mg/m3 |

Recommendation on Sensitizers (Non-exhaustive list)

| Name | CAS number | Example of processes | Comment |
|---|---|--|--|
| Glutaraldehyde | 111-30-8 | Leather Tanning agent | This substance may cause an allergic skin reaction, may cause allergy or asthma symptoms or breathing difficulties if inhaled and may cause respiratory irritation. |
| TCMTB | 21564-17-0 | Leather biocide | This substance causes skin irritation and may cause an allergic skin reaction. |
| Acrylate & Methacrylate | 80-62-6 96-33-3 97-90-5 140-88-5 | Glue for kinesio band | Acrylates and methacrylates monomers can cause skin, respiratory and eye irritation. Methacrylates are locally neurotoxic. Also, these substances cause delayed contact dermatitis (type 4 allergy). |
| Phthalic Anhydride | 85-44-9 | PU process & Epoxy Resin | Phthalic anhydride and its derivatives are strong inducers of occupational rhinitis, conjunctivitis, urticaria and asthma. These substances may cause an allergic skin reaction. |
| 1,2-epoxy-2-(epoxyethyl)cyclohexane | 4223-10-3 | Epoxy glue | This substance is used in some glues used by rubber industry. It is a skin sensitizer and a suspected carcinogen. |
| Paraphenylenediamine & Co | 106-50-3 | Dyes and antioxidants in rubber production | These substances are extremely sensitizing and corrosive. It may cause serious skin problems. |
| Triphenylphosphate & Tricresylphosphate | 78-30-8 115-86-6 | Flame retardants (Rubber and plastics) | TCP and TPP are possible human reproductive and endocrine disruptor. These substances can lead to contact dermatitis. |
| Resin based on p-tert-butylphenol | 25085-50-1 | Adhesives | Mainly used in adhesives for leathers and rubbers. PTBP-F-R has been frequently recognized as a cause of allergic contact dermatitis associated with wetsuits and neoprene sauna shorts. |
| Colophony / Rosin | 8050-09-7 | Adhesives, inks and tackifier | Colophony is classified as a skin sensitizer, it is one of the most frequently positive allergen during patch testing. Oxidation products of resin acids and some modified components are allergenic. |
| Diisocyanates | 584-84-9 26471-62-5 822-06-0 4098-71-9 | Flexible and rigid PU foams, as well as elastomers, binders and coating materials. | The health effects of isocyanate exposure include occupational asthma; skin irritation (dermatitis); dermal sensitivity.. Continued overexposure to isocyanates may lead to pulmonary sensitization or "isocyanate asthma,". |
| Azodicarbonamide | 123-77-3 | Foaming agent | This substance may cause allergy or asthma symptoms or breathing difficulties if inhaled |