



RESTRICTED SUBSTANCES LIST

RevolutionRace AB (Registration Number 556938-2913)

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RSL updated per January 2025

Introduction

The aim with this RSL is to set limits for the occurrence and phasing out unwanted hazardous and in several cases regulated chemicals that may occur and be used in RevolutionRace's products.

Different types of limits and their different meanings:

Legal limit

Above is illegal – below is legal.

Laboratory limits, such as LOD and LOQ

Above is detectable – below is not detectable.

Company limit

Above is not acceptable – below is acceptable. Can be everything from legal limits down to usage ban.

The commissioned lab must report according to the "laboratory limit" which in this RSL template is called "Lab. indicative limit value (mg/kg)". These lab limits should be the lab's reporting limits to the customer and NOT legal limits, as you as a customer only get a fail when the product is illegal and can't be brought into the EU.

The company should have its own limits, so-called Company limits, which in this RSL template are called "RevolutionRace requirement for suppliers", depending on the Company Chemicals Policy.

Supplementary tools to this RSL template

The chemical guide, <https://www.textileimporters.se/vad-vi-gor/kemikalieguiden/>, is not a Restricted Substance List (RSL) but a guide that describes the various regulated chemicals that are relevant to the company's products, how they are regulated, how these chemicals are used and possible alternatives as well as applicable test methods for different materials.

This RSL gives suggestions on how to more concretely set requirements for the various regulated chemicals that are described in the Chemicals Guide, as these proposed requirements are not so concretely specified in the Chemicals Guide. Thus, this RSL is a useful supplement to the Chemical Guide. The use of the Chemicals Guide does not require any prior knowledge of chemistry.

The IT based ChemAct Network tool, <https://chemactnetwork.com/>, specifies relevant, hazardous and often regulated chemicals for each individual component and composition, where this RSL template can also be a useful supplement. The use of ChemAct does not require any prior knowledge of chemistry.

General Requirements for all materials

RevolutionRace sells products world wide. All suppliers to RevolutionRace must be in compliance with regulations in all markets RevolutionRace operate.

List of Chemical Substances Compliance

All suppliers to RevolutionRace must keep record of all chemical substances used in production and all associated processes. This list shall include name of the chemical product, the purpose/area of use and a reference to a Material Safety Data Sheet (MSDS).

Suppliers can and will be asked to submit this list to the ESG team or an accredited auditor for inspection. The buying and product departments reserve the right to ask for additional documentation, showing the chemicals that have been used during production.

Follow up routines

The standards described in this document are applicable on all orders at all times, valid from the time of written confirmation.

Test methods – Tests according to the latest published European standard (EN) and/or ISO test methods.

In case there is no EN and/or ISO standard available «not yet available» the laboratory used by RevolutionRace, the checklist for lab should be used to ensure the quality of the lab that is used by RevolutionRace.

In case of differing test result, the test performed by RevolutionRace will be valid.

In case of quality dispute; 3rd party documentation will be required. 3rd party test results will not be required unless requested.

General requirement for Chemicals of Concern (CoC)

Substances hazard classified as persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), persistent, mobile and toxic (PMT), carcinogenic, mutagenic and toxic for reproduction (CMR), endocrine disruptors (ED) or equivalent concern must not be present in RevolutionRace products.

Legal background

UN global treaties on certain hazardous chemicals such as Persistent Organic Pollutants (POPs)

UN global treaties on certain hazardous chemicals such as POPs Stockholm Convention on Persistent Organic Pollutants is an international environmental treaty, signed in 2001 and effective from May 2004, that aims to eliminate or restrict the production and use of persistent organic pollutants (POPs).

The Rotterdam Convention (formally, the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade) is a multilateral treaty to promote shared responsibilities in relation to importation of hazardous chemicals.

The Minamata Convention on Mercury is a global treaty to protect human health and the environment from the adverse effects of mercury.

EU/EEA chemicals regulations

There is a range of chemicals regulations in EU/EEA that cover requirements of articles and/or chemical products depending on to what extent certain hazardous chemicals pose possible unacceptable risk to users and the environment under normal foreseeable conditions/use.

Such regulatory frame works are

- REACH (EU Regulation 1907/2006) and related amendments
- EU POP regulation (EU Regulation 850/2004 and 519/2012) and related amendments
- Biocide Product regulation (EU Regulation 528/2012) and related amendments
- Directive (EU) 2018/852 amending Directive 94/62/EC on Packaging and Packaging Waste
- RoHS Directive (2011/65 / EU) restricting the presence of hazardous chemical substances in electrical and electronic equipment

Restrictions (EU/EEA)

Restrictions are regulatory measures to protect human health and the environment from unacceptable risks posed by chemicals. Restrictions may limit or ban the manufacture, placing on the market or use of a substance. A restriction can apply to any substance on its own, in a mixture or in an article, including those that do not require registration. Restrictions setting out conditions for the placing on the market of substances apply to both domestic production and imports.

Duty to inform your customer on substances for authorisation (EU/EEA)

Substances of Very High Concern (SVHC) are listed on Candidate List for authorization of the Regulation (EC) No 1907/2006 (REACH). All professional actors have an obligation to inform their consumers about the content of SVHC (as a minimum the name of the substance(s)) exceeding 0.1 % weight by weight (= 1,000 mg/kg) in individual parts of an article, that are defined as articles. If the consumers are professional actors, there is an immediate information duty, but within 45 days for private consumers.

United States (USA)

The Toxic Substances Control Act of 1976 is a US Federal law that provides US EPA with authority to require reporting, record-keeping and testing requirements, and restrictions relating to chemical substances and/or mixtures. Certain substances are generally excluded from TSCA, including, among others, food, drugs, cosmetics and pesticides.

The official text of TSCA as amended by the Frank R. Lautenberg Chemical Safety Act of the 21st Century is available in the United States Code, from the U.S. Government Printing Office.

TSCA addresses the production, importation, use, and disposal of specific chemicals including polychlorinated biphenyls (PCBs), asbestos, radon, mercury and lead (such as lead based paint).

TSCA restriction: means that the substance is restricted in TSCA.

TSCA assessment: Chemicals that have been designated as a high priority or for which risk evaluation has begun. "Draft Scope": EPA has published a draft scope document for public comment. "Final Scope": EPA has published a final scope document (or problem formulation for the first 10). "Draft risk evaluation": EPA has published a draft risk evaluation. "Final risk evaluation": EPA has completed a final risk evaluation.

California Proposition 65, officially known as the Safe Drinking Water and Toxic Enforcement Act of 1986, was enacted as a ballot initiative in November 1986. The proposition protects the state's drinking water sources from being contaminated with chemicals known to cause cancer, birth defects or other reproductive harm, and requires businesses to inform Californians about exposures to such chemicals.

Proposition 65 requires the state to maintain and update a list of chemicals known to the state to cause cancer or reproductive toxicity.

PFAS regulations in USA – federal and states

For US federal regulations of PFAS, see the following link, <https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas>

For ongoing and decided PFAS regulations in US states, see the following link, <https://www.saferstates.org/bill-tracker/>

List of Regulated Substances

Table 1 provides a non product specific overview of material relevant regulated chemicals for their possible occurrence in different materials.

Table 2 is an extensive list of hazardous and often regulated chemicals in EU/EEA and USA, with relevance to materials used in RevolutionRace products. It provides

- Latest published CEN/ISO test methods for textiles, leather and footwear
- Suggestions for RevolutionRace company limits to be applied in value chains depending on the RevolutionRace chemicals policy
- Legal status e.g SVHC, restricted etc

Definitions in Table 2

CAS RN – For every substance, the list states the identification number (CAS No) according to Chemical Abstract Services

Several – Is stated instead of CAS number, the substance has several substances and CAS numbers covered by the specification.

In case there is a defined range of regulated substances, these are listed in annexes, 1 to 13.

Detection Limit – Is defined as the lowest possible value that can be found during testing with a specific test method. Whenever test methods have been revised and the detection limit has been changed, the new detection limit must be followed.

The limits of detection (LOD) and quantification (LOQ) are defined as the lowest concentration of the analyte that can be reliably detected and quantified, respectively. Usually the LOD and LOQ refer to the limits associated with 95% probability of obtaining a correct result.

Not Detected – Substance stated with "Not Detected" as a requirement should not be found above the Detection Limit to be reflected in test reports.

Usage ban – When a substance is defined as "Usage ban" this means that the substance should not be present and used during production directly or indirectly through transformation in processes. Those substances cannot be present in the product over the Detection Limit.

Restricted means restricted according to EU/EEA harmonised chemicals regulations.

SVHC means Substances of Very High Concern (SVHC) that are listed on Candidate List for authorization of the Regulation (EC) No 1907/2006 (REACH).

Limit value – Limit values are based on the highest allowed content of the substance per kilogram article or part thereof.

Not yet available – For those chemicals that have no official standard testing method report the method used by the laboratories through *Annex 14 Checklist for laboratories* to answer .

TSCA restriction or assessment: (US Federal Toxic Substances Control Act) of existing chemicals

Prop 65 means that the substance is listed in the Californian Proposition 65.

Table 1. Non-product specific overview of regulated risk chemicals for different materials¹⁾

Chemical	Natural fibres incl. but not limited to:					Synthetic fibres incl. but not limited to:					Coating, print & paint	Plastics and other synthetic materials	Artificial & Coated Leather	Natural Leather	Natural & Synthetic Blends	Finishes	Adhesives & glue	Metal parts	Rhinestones & Sequins etc.	Fusion, Padding, Feather & Down	Desiccants	Packaging material	
AZO dyes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Allergenic dyes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carcinogenic dyes (CMR)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bisphenols	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMFa, DMAC, NMP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NPEO, OPEO (APEO)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Short (SCCP) and Medium Chained (MCCP) Chlorinated Paraffin's	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Formaldehyde	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Glutaraldehyde	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Total Lead	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Total Cadmium	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Total Mercury	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Extractable Heavy Metals ²⁾	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nickel Release	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Total Arsenic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Total Chromium VI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PFAS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PAH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Phthalates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PVC detection (Beilstein)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Quinoline ³⁾	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOLVENTS / Volatile Organic Compounds (VOC)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Organotin Compounds	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Chlorinated Phenols	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dimethylfumarate (DMFu)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cobalt Dichloride	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Biocides	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

1) For more specific listing of relevant hazardous chemicals in RevolutionRace components and compositions, use tools such as ChemAct, <https://chemactnetwork.com>
 2) Relevant for 1. stain, oil and water repellent finishes or coatings on fabrics 2. antistatic treatments
 3. flame retardance (more potential uses under investigation)

3) Applies only to dyed materials
 4) Extractable arsenic, cadmium, lead, and chromium VI. ONLY applies to textile materials.

Table 2. List of regulated substances

EU/EEA regulated substances relevant to RevolutionRace products	CAS RN	Latest published: CEN/ISO test methods	RevolutionRace requirement for suppliers	Laboratory indicative limit value (mg/kg)	Legal status
Alkylphenol ethoxylates (APEO) and derivatives. Alkylphenols (AP)	Annex 1	EN ISO 18254-1:2016, 2:2019 (textile), (APEO) EN ISO 21084:2019 (textile), (AP) EN ISO 18218-1:2023 (APEO direct method, leather) EN ISO 18218-2:2019 (APEO indirect method, leather)	Usage ban	< ²⁾ 10	Annex 1
Arsenic compounds	Annex 2	EN 16711-1-2:2015 (total content, textiles) EN 16711-2:2015 (extractable content, textile) EN ISO 17072-1:2019 (extractable content, leather) EN ISO 17072-2:2022 (total content, leather)	Usage ban	< 10	Annex 2 Prop 65
Bisphenols	Annex 3	EN ISO 11936:2023 (leather)	Usage ban	< 10	Annex 3
C,C'-azodi(formamide) (ADCA)	123-77-3	Not yet available	Usage ban	< 200	SVHC
Bis (α,α-dimethylbenzyl) peroxide also called Dicumyl peroxide	80-43-3	Not yet available	Usage ban	< 100	SVHC
Ethylenediamine (EDA)	107-15-3	Not yet available	Usage ban	< 100	SVHC
Ethylenethiourea	96-45-7	Not yet available	Usage ban	< 20	SVHC Prop 65
2-Ethoxyethanol	110-80-5	Not yet available	Usage ban	< 200	SVHC
Formamide	75-12-07	Not yet available	Usage ban	< 50	SVHC
Hydrazine	302-01-2	Not yet available	Usage ban	< 200	SVHC
1-vinylimidazole	1072-63-5	Not yet available	Usage ban	< 200	SVHC
2-methylimidazole	693-98-1	Not yet available	Usage ban	< 200	SVHC
2-methoxyethyl acetate	110-49-6	Not yet available	Usage ban	< 100	SVHC
Bis (2-[2-methoxyethoxy)ethyl] ether	143-24-8	Not yet available	Usage ban	< 200	SVHC
PAH – Polycyclic aromatic hydrocarbons	Annex 4	EN 17132:2019 (textile) EN ISO 16190:2021 (footwear)	Usage ban of compounds that can generate PAH	< 0.2	Annex 4 Prop 65
Quinoline	91-22-5	Not yet available	Usage ban	< 10	Restricted Prop 65
Solvents - Aliphatic organic solvents	Several	Not yet available	Usage ban of Cyclohexane (CAS RN 110-82-7)	< 0.5	Restricted is Cyclohexane (CAS RN 110-82-7)
Solvents – Aromatic organic solvents	Several	Not yet available	Usage ban of benzene (CAS RN 71-43-2) and Toluene (CAS RN 108-88-3)	< 0.5	Restricted in EU/EEA are: benzene (CAS RN 71-43-2) and Toluene (CAS RN 108-88-3) Prop 65 for benzene
Solvents – Chlorinated organic solvents	Annex 5	EN 17137:2024 (textile)	Usage ban of listed in annex 4 and Prop 65	< 0.5	Annex 5 Several are listed in Prop 65
Solvents – 1,4 dioxane	123-91-1	Not yet available	Usage ban	< 100	SVHC TSCA assessment
Solvents – DMFa (N,N-dimethylformamide)	127-19-5	EN 17131:2019 (textile) EN ISO 16189:2021 (footwear) EN 16778:2016 (gloves)	Usage ban	< 10	SVHC and restricted Prop 65

1) < means "less than"

Table 2. List of regulated substances (cont.)

EU/EEA regulated substances relevant to RevolutionRace products	CAS RN	Latest published: CEN/ISO test methods	RevolutionRace requirement for suppliers	Laboratory indicative limit value (mg/kg)	Legal status
Solvents – DMAc (N,N-dimethylacetamide)	127-19-5	Not yet available	Usage ban	< 10	SVHC and restricted Prop 65
Solvents – NMP (N-methyl-2-pyrrolidone)	872-50-4 (NMP)	EN ISO 19070:2016 (leather)	Usage ban	< 25	For NMP: SVHC and restricted
NEP (N-ethyl-2-pyrrolidone)	2687-91-4 (NEP)				Prop 65 TSCA assessment NEP is proposed for REACH regulation
N-(hydroxymethyl)acrylamide	924-42-5	Not yet available	Usage ban	< 100	SVHC
6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol	119-47-1	Not yet available	Usage ban	< 200	SVHC
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol Phenol, methylstyrenated	68512-30-1	Not yet available	Usage ban	< 200	SVHC
Tin organic compounds (OrganostaRevolutionRaceic compounds)	Several	EN ISO 22744-1:2020 (textile) EN ISO 22744-2:2020 (textile) CEN ISO/TS 16179:2012 (footwear)	Usage ban	< 0.2	SVHC and restricted
tris(2-methoxyethoxy) vinylsilane	1067-53-4	Not yet available	Usage ban	< 200	SVHC
Allergenic dyes	Annex 6	EN ISO 16373-2:2014 (textile) Optional to apply to EN ISO 16373-2:2014 (textile) DIN 54231:2022-09	Usage ban	< 20	Annex6 Prop 65
Restricted arylamines related to azo dyes	Annex 7	EN ISO 14362-1, 3:2017 (textile) EN ISO 17234 -1:2024 (leather) EN ISO 17234-2:2011 (leather)	Usage ban	< 10	Annex7 Prop 65
Benzotriazols (UV-320, UV-327, UV-328 , UV-350 and some more)	Annex 8	ISO 24040:2022 (textiles)	Usage ban	< 50	SVHC
3-benzylidene camphor (1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1] heptan-2-one) (abbr: 3-BC)	15087-24-8	Not yet available	Usage ban	< 100	SVHC
2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	Not yet available	Usage ban	< 100	SVHC
Boric acid, borate compounds	Several	Not yet available	Usage ban	< 25	SVHC and restricted
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	Not yet available	Usage ban	< 100	SVHC
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	Not yet available	Usage ban	< 100	SVHC
Cadmium (Cd) and cadmium salts	7440-43-9 (cadmium metal) Several	EN 16711-1:2015 (total content, textiles) EN 16711-2:2015 (extractable content, textile) EN ISO 17072-1:2019 (extractable content, leather) EN ISO 17072-2:2022 (total content, leather)	Usage ban	< 10 (total content) < 0.1 (extractable content)	SVHC and restricted Prop 65

Table 2. List of regulated substances (cont.)

EU/EEA regulated substances relevant to RevolutionRace products	CAS RN	Latest published: CEN/ISO test methods	RevolutionRace requirement for suppliers	Laboratory indicative limit value (mg/kg)	Legal status
Cobalt (Co) and its compounds	7440-48-4 (cobalt metal) Several	EN 16711-1:2015 (total content, textiles) EN 16711-2:2015 (extractable content, textile) EN ISO 17072-1:2019 (extractable content, leather) EN ISO 17072-2:2022 (total content, leather)	Usage ban	< 10 (total content)	SVHC
CMR, Carcinogenic, Mutagenic, Reproductive toxic dyestuffs	Annex 9	EN ISO 16373-2:2014 (textile) Optional to apply to EN ISO 16373-2:2014 (textile) DIN 54231:2022-09	Usage ban	< 20	Annex 9
Chloroparaffins	85535-84-8 (SCCP)	EN ISO 22818:2021 (textile) EN ISO 18219-1:2021 (SCCP, leather), EN ISO 18219-2:2021 (MCCP, leather)	Usage ban	< 100	SVHC and restricted Prop 65
	85535-85-9 (MCCP)		Usage ban	< 100	SVHC Prop 65
Chromium VI	18540-29-9	EN ISO 17075-1,-2:2017 (leather) EN ISO 10195:2021 (leather)	Usage ban of chrome tanned leather	< 0.5	SVHC and restricted Prop 65
Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	75980-60-8	Not yet available	Usage ban	< 100	SVHC
Dechlorane™ Plus [1,6,7,8,9,14,15,16,17,17,18,18 Dodecachloropentacyclo[12.2.1.16,9.02.13.05,10]octadeca-7,15-diene]	13560-89-9	Not yet available	Usage ban	< 100	SVHC
Formaldehyde	50-00-0	EN ISO 14184-1:2011(Free and hydrolysed water extracted formaldehyde in textiles) EN ISO 14184-2:2011 (formaldehyde emissions from textiles) EN ISO 14184-3:2023 (Free and hydrolysed extracted formaldehyde in textiles using HPLC) EN ISO 17226-1:2021(leather) EN ISO 17226-2:2019 (leather) EN ISO 17226-3:2011 (formaldehyde emissions from leather)	Usage ban of compounds so called formaldehyde releasers, that transform into formaldehyde	< 15	Annex 10 TSCA restriction Prop 65
Glutaraldehyde	111-30-8	Not yet available	Usage ban	< 200	SVHC
Melamine	108-78-1	Not yet available	Usage ban	< 200	SVHC
Hexabromocyclododecan (HBCDD)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7 and 134237-52-8	EN ISO 17881-1:2016 (textile)	Usage ban	< 20	Restricted TSCA assessment
Lead (Pb) and lead salts	7439-92-1 (lead metal) Several	EN 16711-1:2015 (total content, textiles) EN 16711-2:2015 (extractable content, textile) EN 16711-3:2019 (migrated content, textiles) EN ISO 17072-1:2019 (extractable content, leather) EN ISO 17072-2:2022 (total content, leather)	Usage ban	< 10 mg/kg (total content) < 0.1 mg/kg (extractable content)	SVHC and restricted TSCA restriction Prop 65

Table 2. List of regulated substances (cont.)

EU/EEA regulated substances relevant to RevolutionRace products	CAS RN	Latest published: CEN/ISO test methods	RevolutionRace requirement for suppliers	Laboratory indicative limit value (mg/kg)	Legal status
Mercury (Hg)	7439-97-6	EN 16711-1:2015 (total content, textiles) EN 16711-2:2015 (extractable content, textile) EN ISO 17072-1:2019 (extractable content, leather) EN ISO 17072-2:2022 (total content, leather)	Usage ban	< 10 mg/kg (total content) < 0.02 mg/kg (extractable content)	SVHC and restricted TSCA restriction
Nickel (Ni), in accessories	7440-02-0	EN 12472:2020 (ageing of coated samples) and EN 1811:2023 (for coated and non coated items)	Usage ban	< 0.02 µg/cm ² /week 1	Restricted Prop 65
Per and polyfluorinated alkyl substances (PFAS)	Annex 11 and 12	Targeted analysis of PFAS: EN 17681-1:2022 (non-volatile PFAS, textiles) and EN 17681-2:2022 (volatile PFAS, textile) are replaced with EN 17681-1:2025 EN ISO 23702-1:2023 (leather) Non targeted analysis of PFAS: EN 14582:2016; (Total fluorine, Combustion with calorimetric bomb at (1 050 ± 50) °C) OR EN 17813:2023; (Total fluorine, Oxidative pyrohydrolytic combustion at (1 050 ± 50) °C)	Usage ban	< 0,01 (PFCA and PFSA except PFOS) < 0,1 (FTOH) < 0,1 (µg/m ² (PFOS)	Annex12
Ortho-phthalate esters	Annex 13	EN ISO 14389:2022 (textile) EN ISO 16181-1, -2:2021 (footwear)	Usage ban	< 50	Annex 13
Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)	Annex 14	EN ISO 17881-1:2016 (textile)	Usage ban	< 10	Annex 14
bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof Bis(2-ethylhexyl) tetrabromophthalate	Several	EN ISO 17881-1:2016 (textile)	Usage ban	<100	SVHC
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol also called TBBPA	79-94-7	EN ISO 17881-1:2016 (textile)	Usage ban	< 100	SVHC TSCA assessment
1,1'-[ethane-1,2-diylbis(oxy)] bis[2,4,6-tribromobenzene]	37853-59-1	EN ISO 17881-1:2016 (textile)	Usage ban	< 100	SVHC
2,2-bis(bromomethyl) propane-1,3-diol (BMP)	3296-90-0	EN ISO 17881-1:2016 (textile)	Usage ban	< 100	SVHC
2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	36483-57-5	EN ISO 17881-1:2016 (textile)	Usage ban	< 100	SVHC
2,3-dibromo-1-propanol (2,3-DBPA)	1522-92-5 96-13-9	EN ISO 17881-1:2016 (textile)	Usage ban	< 100	SVHC
Siloxanes (D3, D4, D5 and D6)	107-51-7 (D3) 556-67-2 (D4) 541-02-6 (D5) 540-97-6 (D6)	Not yet available	Usage ban	< 100	SVHC D4 is under TSCA assessment

Table 2. List of regulated substances (cont.)

EU/EEA regulated substances relevant to RevolutionRace products	CAS RN	Latest published: CEN/ISO test methods	RevolutionRace requirement for suppliers	Laboratory indicative limit value (mg/kg)	Legal status
Halogenated aryl phosphates – TCEP, TBPP, TCPP and TDCPP	115-96-8, 126-72-7, 13674-84-5, 13674-87-8	EN ISO 17881-2:2016 (textile)	Usage ban	< 5	SVHC TCEP, TBPP and TDCPP are listed in Prop 65 TCEP is under TSCA assessment
Aryl phosphates Trixylyl phosphate, Triphenylphosphate O,O,O-triphenyl phosphorothioate (TPPT) Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	25155-23-1, 115-86-6 597-82-0 192268-65-8	EN ISO 17881-2:2016 (textile)	Usage ban	< 5	SVHC Triphenylphosphate is under TSCA assessment
Tris (aziridiny) phosphin oxide (TEPA)	545-55-1	EN ISO 17881-2:2016 (textile)	Usage ban	< 5	Restricted
Restricted or banned biocides	CAS RN	Latest published: CEN/ISO test methods	RevolutionRace requirement for suppliers	Laboratory indicative limit value (mg/kg)	Legal status
Cu-HDD (Bis-(N-cyclohexyldiazoniumdioxy) –copper)	312600-89-8	Not yet available	Usage ban	< 20	Banned
Carbendazim	10605-21-7	Not yet available	Usage ban	< 10	Banned
Dimethylfumarate (DMFu)	624-49-7	EN 17130:2019 (textile) EN ISO 16186:2021 (footwear)	Usage ban	< 0,1	Restricted
Guanidine, N,N"-1,6-hexanediy-bis[N'-cyano-, polymer with 1,6-hexanediamine, hydrochloride (PHMB 1600; 1.8)	27083-27-8	Not yet available	Usage ban	< 10	Banned
Pentachlorophenol (PCP) and all isomers of Tetrachlorophenols (TeCP)	87-86-5 Several	EN 17134-2:2023 (textile) EN ISO 17070:2015 (leather) CEN/TR 14823:2003 (wood) EN ISO 15320:2011 (pulp and paper)	Usage ban	< 0,1	Restricted PCP is listed in Prop 65
Permethrin	52645-53-1	Not yet available	Usage ban	< 5	Banned PT9
Silver and its compounds	Several	Not yet available	Usage ban	< 10	Nano silver is banned
Trisubstituted tin organic compounds	Several	EN ISO 22744-1,-2:2020 (textile) CEN ISO/TS 16179:2012 (footwear)	Usage ban	< 0.2	Restricted
Triclosan	3380-34-5	EN 17134-1:2024 (2-phenylphenol (OPP) and triclosan in textile materials)	Usage ban	< 10	Banned OPP is listed in Prop 65
2-phenylphenol (OPP)	90-43-7 13707-65-8 (potassium salt), 132-27-4 (sodium salt)	EN ISO 13365-1,-2:2020 (TCMTB, PCMC, OPP, OIT, content in leather)	Usage ban	< 10	Banned
Zincpyrithion	13463-41-7	Not yet available	Usage ban	< 100 as zinc	
Bronopol	52-51-7	Not yet available	Usage ban	< 100	Banned
Thiram	137-26-8	Not yet available	Usage ban	< 100	Banned
Metam-sodium (sodium N-methylthiocarbamate)	137-42-8	Not yet available	Usage ban	< 100	Banned Prop 65
Parabenes	Several	Not yet available	Usage ban	< 100	Banned
Polyhexamethylene biguanide hydrochloride with a mean number-average molecular weight (Mn) of 1415 and a mean polydispersity (PDI) of 4.7 (PHMB(1415;4.7))	Several	Not yet available	Usage ban	< 100	Banned
Sodium p-chloro-m-cresolate	15733-22-9	Not yet available	Usage ban	<100	Banned

Annex 1. Alkylphenol ethoxylates (APEO) and derivatives

Substances	CAS RN	Legal status
4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-OP)	140-66-9	SVHC
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated (4-tert-OPnEO)	Several	SVHC
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated (4-tert-OPnEO, UVCB substance)	Several	SVHC
4-Nonylphenol, branched and linear (4-NP)	Several	SVHC
4-Nonylphenol, branched and linear, ethoxylated (4-NPnEO)	Several	SVHC and restricted
4-tert-butylphenol	98-54-4	SVHC
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	Several	SVHC
tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	Several	SVHC

Annex 2. Arsenic compounds

Substance	CAS RN	Legal status
Arsenic acid	7778-39-4	SVHC and restricted
Calcium arsenate	7778-44-1	SVHC and restricted
Diarsenic Pentoxide	1303-28-2	SVHC and restricted
Diarsenic Trioxide	1327-53-3	SVHC and restricted
Triethyl arsenate	15606-95-8	SVHC and restricted

Annex 3. Bisphenols

Substance	CAS RN	Legal status
(4,4'-isopropylidenedi-phenol (BPA)	80-05-7	SVHC and restricted
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	SVHC
4,4'-(1-methylpropylidene) bisphenol (BPB)	77-40-7	SVHC
4,4'-sulphonyldiphenol (BPS)	80-09-1	SVHC
Bis(4-chlorophenyl) sulphone	80-07-9	SVHC

Annex 4. Poly aromatic hydrocarbons (PAH)

Substances	CAS RN	Legal status
Benzo(a)anthracene	56-55-3	SVHC and restricted
Benzo(a)phenanthrene (chrysene)	218-01-9	SVHC and restricted
Benzo(a)pyrene	50-32-8	SVHC and restricted
Benzo(b)fluoranthene	205-99-2	SVHC and restricted
Benzo(j)fluoranthene	205-82-3	SVHC and restricted
Benzo(k)fluoranthene	207-08-9	SVHC and restricted
Dibenzo(a,h)anthracene	53-70-3	SVHC and restricted
Benzo[e]pyrene	192-97-2	SVHC and restricted
Benzo(ghi)perylene	191-24-2	SVHC
Anthracene	120-12-7	SVHC
Fluoranthene	206-44-0	SVHC
Phenanthrene	0085-01-8	SVHC
Pyrene	129-00-0	SVHC
Anthracene oil	90640-80-5	SVHC
Anthracene oil fraction (a complex combination of the distillation of Anthracene)	91995-17-4	SVHC
Anthracene oil, Anthracene paste, Anthracene fraction	91995-15-2	SVHC
Anthracene oil, Anthracene-low	90640-82-7	SVHC
Anthracene oil, Anthracene paste	90640-81-6	SVHC

Annex 5. Regulated chlorinated solvents

Substances	CAS-RN	Legal status
Chloroform	67-66-3	Restricted
1,2-Dichloroethane	107-06-2	TSCA assessment
1,1-Dichloroethane	75-34-3	TSCA assessment
1,1,2 Trichloroethane	79-00-5	Restricted TSCA assessment
1,1,2,2 Tetrachloroethane	79-34-5	Restricted
1,1,1,2 Tetrachloroethane	630-20-6	Restricted
Pentachloroethane	0076-01-07	Restricted
1,1 Dichloroethylene	75-35-4	Restricted
1,4-dichlorobenzene	106-46-7	Restricted TSCA assessment
Carbon tetrachloride	56-23-5	Restricted TSCA assessment
1,1,1 Trichloroethane	71-55-6	Restricted Prop 65
α,α,α,4-tetrachlorotoluene;	5216-25-1	Restricted
p-chlorobenzotrithloride	5216-25-1	Restricted
α,α,α-trichloro toluene also called benzo trichloride	0098-07-07	Restricted
α-chlorotoluene also called benzyl chloride	100-44-7	Restricted
trans-1,2- Dichloroethylene	156-60-5	TSCA assessment
Trichloroethylene	79-01-6	SVHC TSCA assessment
1,2,3-trichloropropane	96-18-4	SVHC
1,2 dichloroethane	107-06-2	Restricted Prop 65 TSCA assessment
1,2-Dichloropropane	78-87-5	TSCA assessment
Methylene Chloride	75-09-2	TSCA assessment

Annex 6. Allergenic dyestuffs

Substances	CAS RN	Legal status
C.I. Disperse Yellow 1	119-15-3	
C.I. Disperse Blue 35	12222-75-2	Restricted
C.I. Disperse Blue 102	12222-97-8	
C.I. Disperse Blue 106	12223-01-7, 68516-81-4	
C.I. Disperse Yellow 39	12236-29-2	
C.I. Disperse Orange 37/59/76	13301-61-6	
C.I. Disperse Brown 1	23355-64-8	
C.I. Disperse Blue 3	2475-46-9	
C.I. Disperse Orange 1	2581-69-3	
C.I. Disperse Yellow 3	2832-40-8	
C.I. Disperse Red 11	2872-48-2	
C.I. Disperse Red 1	2872-52-8	
C.I. Disperse Red 17	3179-89-3	
C.I. Disperse Blue 7	3179-90-6	
C.I. Disperse Blue 26	3860-63-7,	
C.I. Disperse Yellow 49	54824-37-2,	
C.I. Disperse Blue 124	61951-51-7	Restricted
C.I. Disperse Yellow 9	6373-73-5	
C.I. Disperse Orange 3	730-40-5	
Navy Blue	405-665-4 (EC #)	Restricted
C.I. Disperse Blue 1	2475-45-8	Restricted
Disperse Yellow 64	10319-14-9	
Disperse Violet 93	52697-38-8	
CI Disperse Yellow 23	6250-23-3	
CI Disperse Violet 1	128-95-0	
CI Disperse Blue 291	56548-64-2	
CI Disperse Orange 149	85136-74-9	

Annex 7. Banned arylamines derived from certain azo dyes

Substances	CAS RN	Legal status
4,4-Methylene-bis[2-chloro-aniline]	101-14-4	SVHC and restricted
4,4-Methylenedianiline	101-77-9	SVHC and restricted
4,4'-oxydianiline	101-80-4	SVHC and restricted
4-chloroaniline	106-47-8	Restricted
o-Dianisidine	119-90-4	Restricted
4,4'-bi-o-toluidine	119-93-7	Restricted
p-Cresidine	120-71-8	Restricted
2,4,5-trimethylaniline	137-17-7	Restricted
4,4'-thiodianiline	139-65-1	Restricted
4-Aminoazobenzene	0060-09-3	SVHC and restricted
4-methoxy-m-phenylenediamine	615-05-4	Restricted
4,4-Methylenedi-o-toluidine	838-88-0	SVHC and restricted
2,6-xylydine	87-62-7	Restricted
o-Anisidine	90-04-0	Restricted
2-Naphthylamine	91-59-8	Restricted
3,3-Dichlorobenzidine	91-94-1	Restricted
Biphenyl-4-ylamine	92-67-1	Restricted
Benzidine	92-87-5	Restricted
o-Toluidine	95-53-4	Restricted
2,4-xylydine	95-68-1	Restricted
4-Chloro-o-toluidine	95-69-2	Restricted
4-methyl-m-phenylenediamine	95-80-7	Restricted
o-Aminoazotoluene	97-56-3	Restricted
5-Nitro-o-toluidine	99-55-8	Restricted
4-chloro-o-toluidinium chloride	3165-93-3	Restricted
2-Naphthylammoniumacetate	553-00-4	Restricted
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	Restricted
2,4,5-trimethylaniline hydrochloride	21436-97-5	Restricted

Annex 8. Benzotriazols

Substance	CAS RN	Legal status
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	SVHC
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	SVHC
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	SVHC and POP
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	SVHC
Bumetrizole (UV 326)	3896-11-5	SVHC
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV 329)	3147-75-9	SVHC

Annex 9. CMR dyestuffs

Substances	CAS RN	Legal status
C.I. Direct Brown 95	16071-86-6	
C.I. Direct Black 38	1937-37-7	SVHC
C.I. Disperse Blue 1	2475-45-8	Restricted
C.I. Direct Blue 6	2602-46-2	
C.I. Acid Red 26	3761-53-3	
C.I. Basic Red 9	569-61-9	
C.I. Direct Red 28	573-58-0	SVHC
C.I. Basic Violet 14	632-99-5	
C.I. Disperse Orange 11	82-28-0	
C.I. Disperse Orange 149	85136-74-9	
C.I. Solvent Blue 4	6786-83-0	SVHC
C.I. Basic Blue 26,	2580-56-5	SVHC
C.I. Basic Violet 3	548-62-9	SVHC and restricted
Michler's base	101-61-1	SVHC
Michler's ketone	90-94-8	SVHC Prop 65
C.I. Disperse Yellow 3	2832-40-8	
Acid red 114	6459-94-5	Prop 65
Direct blue 15	2429-74-5	Prop 65
4,4'-bis(dimethylamino)- 4''-(methylamino)trityl alcohol	561-41-1	SVHC

Annex 10. Legal status formaldehyde

Formaldehyde regulations within EU/EEA are replaced by EU REACH Regulation annex XVII entry 72 for textiles.

Formaldehyde regulations outside EU/EEA

Country	Regulations/Requirements	Objection Limit / Limit
China	Limits of Formaldehyde Content in Textiles: GB18401. Leather: GB/T 19941	Textiles for infants and babies: ≤20 mg/kg. Textiles in direct skin contact: ≤75 mg/kg. Textiles not in direct skin contact: ≤300 mg/kg.
Japan	Japanese Law 112 Textiles: JIS L1041	Textiles for infants: Not detectable. Textiles in direct skin contact: 75 ppm.
Vietnam	Circular no 23/2016/TT-BCT	Textiles for babies under 36 months: 30 mg/kg. Textiles in direct skin contact: 75 mg/kg. Textiles not in direct skin contact: 300 mg/kg
USA	Federal Hazardous Substances Act (FHSA)	The Federal Hazardous Substances Act (FHSA) is a chemicals legislation that does not focus on products but regulates certain hazardous substances in products, such as lead in candle wicks and solvents in shoe waxes. Consumer products containing more than 1% formaldehyde must be labeled with a warning. The following states have restrictions of formaldehyde: California (cleaning products, cosmetics, wood products), Illinois, Iowa, Louisiana, Massachusetts (children's products, jewelry, toys), New Hampshire (children's products, toys), New York (electronics equipment), South Carolina and Vermont (chemical products).
Eurasian Customs Union (Armenia, Belarus, Kazakhstan, Kyrgyzstan and Russia)	Technical Regulation on the, TP TC 007/2011 On "Safety of Products intended for children and adolescents", enacted in 2011 and its amendment "Decision N° 51 (28 April 2017)", enacted in 2017. "TP TC 017/2011 On Safety of Light Industry Products enacted in 2011 and its amendment "Decision N° 60 (9 August 2016)" enacted in 2016. GOST 30386-95 (Textiles. Maximum permissible concentrations of free formaldehyde)	Mass fraction of free Formaldehyde babies up to 36 months: 20 mcg/g for 1st and 2nd layer of products and 300 mcg/g for 3rd layer. Mass fraction of free Formaldehyde for children and adolescents: 75 mcg/g for 1st and 2nd layer of products and 300 mcg/g for 3rd layer. <i>Apply less than 20 mg free formaldehyde/kg as a customs requirement.</i>

Annex 11. Flourochemicals (PFAS) to analyse

Substances	Acronym	CAS RN
PFSA (perfluorinated sulfonic acids) related substances (PFSA)		
Perfluorooctane sulfonate	PFOS	1763-23-1
Perfluorooctanesulfonamide	PFOSA	754-91-6
N-Methyl-Perfluorooctanesulfonamide	N-Me-FOSA	31506-32-8
N-Ethyl-Perfluorooctanesulfonamide	N-Et-FOSA	4151-50-2
N-Methyl-Perfluorooctane-sulfonamidoethanol	N-Me-FOSE	24448-09-7
N-Ethyl-Perfluorooctane-sulfonamidoethanol	N-Et-FOSE	1691-99-2
Perfluorohexane sulfonate	PFHxS	355-46-4
Perfluorobutane sulfonate	PFBS	375-73-5
PFCA (perfluorinated carboxylic acids) related substances (PFCA)		
Perfluorooctane acid	PFOA	335-67-1
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUnA	2058-94-8
Heptacosafuorotetradecanoic acid	PFTA	376-06-7
Tricosafuorododecanoic acid	PFDoA	307-55-1
Pentacosafuorotridecanoic acid	PFTTrDA	72629-94-8
Ammonium pentadecafluoro-octanoate	APFO	3825-26-1
Sodium perfluorooctanoate	Na-PFO	335-95-5
Potassium perfluorooctanoate	Ca-PFO	2395-00-8
Silver perfluorooctanoate	Ag-PFO	335-93-3
Perfluorooctanoyl fluoride	F-PFO	335-66-0
Methyl pentadecafluorooctanoate	Me-PFO	376-27-2
Ethyl perfluorooctanonate	Et-PFO	3108-24-5

Substances	Acronym	CAS RN
Flourtelomers (precursors)		
4:2 fluorotelomer sulfonate	4:2 FTS	757124-72-4
6:2 fluorotelomer sulfonate	6:2 FTS	27619-97-2
8:2 fluorotelomer sulfonate	8:2 FTS	39108-34-4
1H,1H,2H,2H-Perfluorohexanol	4:2 FTOH	2043-47-2
1H,1H,2H,2H-Perfluoro-1-octanol	6:2 FTOH	647-42-7
1H,1H,2H,2H-Perfluoro-1-decanol	8:2 FTOH	678-39-7
1H,1H,2H,2H-Perfluorododecane-1-ol	10:2 FTOH	865-86-1
1H,1H,2H,2H-Perfluorooctylacrylat	6:2 FTA	17527-29-6
1H,1H,2H,2H-Perfluorodecylacrylat	8:2 FTA	27905-45-9
1H,1H,2H,2H-Perfluorododecylacrylat	10:2 FTA	17741-60-5
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl methacrylate	6:2 FTMA	2144-53-8

Annex 12. Legal status PFAS

PFAS substances, their salts and related substances	CAS	Abbr.	SVHC	REACH annex XVII	EU POP regulation	Prop 65	Stockholm Convention
Perfluorobutane sulfonate	375-73-5	PFBS	Yes				
Perfluorohexane sulfonate	355-46-4	PFHxS	Yes		Yes		Yes
Perfluorohexanoic acid	307-24-4	PFHxA					
Perfluoroheptaonic acid	375-85-9	PFHpA	Yes	Yes			
Perfluorooctane sulfonate	307-34-6	PFOS			Yes	Yes	Yes
Perfluorononanoic acid and its sodium ammonium salts,	375-95-1 21049-39-8, 4149-60-4	PFNA	Yes			Yes	
Perfluorodecanoic acid its sodium and ammonium salts,	335-76-2 3108-42-7 3830-45-3	PFDA	Yes	Yes			
Pentacosafuoro tridecanoic acid	72629-94-8	PFTTrDA	Yes	Yes			
Tricosafuoro dodecanoic acid	307-55-1	PFDoA	Yes	Yes			
Henicosafuoro undecanoic acid	2058-94-8	PFUnA	Yes	Yes			
Heptacosafuoro tetradecanoic acid	376-06-7	PFTA	Yes	Yes			
Perfluorooctane acid Ammonium pentadecafluoro octanoate	335-67-1 3825-26-1	PFOA APFO	Yes		Yes	Yes	Yes
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	Various	HPFO-DA*	Yes				
reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl) morpholine	Various		Yes				
Perfluamine	338-83-0		Yes				
Broader PFAS regulation	Suggested to cover all compounds that include one or more perfluorinated moieties.			On going			

Annex 13. Regulated ortho – phthalate esters

Substance	Abbreviation	CAS RN	Legal status
Bis(2-ethylhexyl) phthalate	DEHP	117-81-7	SVHC and restricted Prop 65 TSCA assessment
Dibutyl phthalate	DBP	84-74-2	SVHC and restricted Prop 65 TSCA assessment
Benzyl butyl phthalate	BBP	85-68-7	SVHC and restricted Prop 65 TSCA assessment
Diisononyl phthalate	DINP	28553-12-0 and 68515-48-0	Restricted Prop 65 TSCA assessment
Diisodecyl phthalate	DIDP	26761-40-0 and 68515-49-1	Restricted Prop 65 TSCA assessment
Di-n-octyl phthalate	DNOP	117-84-0	Restricted
Diisooctyl phthalate	DIOP	27554-26-3	Not yet regulated
Diisobutyl phthalate	DIBP	84-69-5	SVHC and restricted TSCA assessment
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	DIHP	71888-89-6	SVHC and restricted
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	DHNUP	68515-42-4	SVHC
Bis(2-methoxyethyl) phthalate	DMEP	117-82-8	SVHC and restricted
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear		84777-06-0	SVHC
Diisopentyl phthalate	DIPP	605-50-5	SVHC and restricted
N-pentyl-isopentylphthalate	PIPP	776297-69-9	SVHC
Dipentyl phthalate	DPP	131-18-0	SVHC
Dihexyl phthalate	DnHP	84-75-3	SVHC and restricted Prop 65
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear		68515-50-4	SVHC
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters with ≥ 0.3% of dihexyl phthalate (CAS 84-75-3)		68515-51-5	SVHC
1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (CAS 84-75-3)		68648-93-1	SVHC
Dicyclohexyl phthalate	DCHP	84-61-7	SVHC TSCA assessment
Diisohexylphthalate	DIHXP	71850-09-4	SVHC

Annex 14. Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

Substance	Abbreviation	CAS RN	Legal status
PBBs			
Polybrominated biphenyls	PBB	59536-65-1 (mix)	Restricted, Prop 65
Hexabromobiphenyl	HBB	36355-01-8	Restricted
PBDEs			
Pentabromodiphenyl ether	PentaBDE	32534-81-9, 60348-60-9	Restricted, Prop 65
Octabromodiphenyl ether	OctaBDE	32536-52-0	Restricted
Decabromodiphenyl ether	DecaBDE	1163-19-5	SVHC and restricted
Tetrabromodiphenyl ether	TetraBDE	5436-43-1	Restricted
Heptabromodiphenyl ether	HeptaBDE	207122-16-5, 446255-22-7	Restricted
Hexabromodiphenyl ether	HexaBDE	68631-49-2, 207122-15-4	Restricted

Annex 15. Checklist for laboratories

Introduction

This routine is to ensure qualified chemical test protocols and test results by selected and by RevolutionRace, approved accredited independent test laboratories in selected countries of concern.

If there are published EN or EN ISO or ISO methods available always use that method and clearly report in the test protocol

If other methods are used e.g. in-house test methods, always answer carefully each section below.

In case the applied EN, EN ISO or ISO method is modified by the test laboratory, always report these modified procedures in the test report.

All test reports should be signed by an authorised person at the laboratory.

Testing

For those chemical substances to be tested, where no official international standard test method exists, the test report should include the following:

Sample preparation

- Amount of specimen for preparation, weight and size
- Procedure of extraction, solvents used, and equipment used for extraction e.g. Soxhlet

Instrumental performance

- Instrument used e.g GC-MS etc.
- Lab specific detection limit(s) where preferably LOQ (limit of quantification) are reported
- Standard deviation in analytical results

Other information of importance

- Describe modified procedures from applied established ISO/EN standard methods if available.
- Always present test results in mg/kg
- Description of the recalculation from mg/kg if the test result is presented in another unit e.g ppm, ppb, ug/kg etc

Instruction to the laboratory

- Always present the actual test result of the analysis and not any letter combinations if not properly described e.g N/A
- If not detected, report always below the actual LOQ (< LOQ) values

