

This document applies to materials, parts, and other goods supplied for use in lululemon apparel, accessories, footwear, packaging and other products. It supersedes all previous versions.

Always check Global Family or the lululemon sustainability page on our website to ensure you have the most current version of this document.



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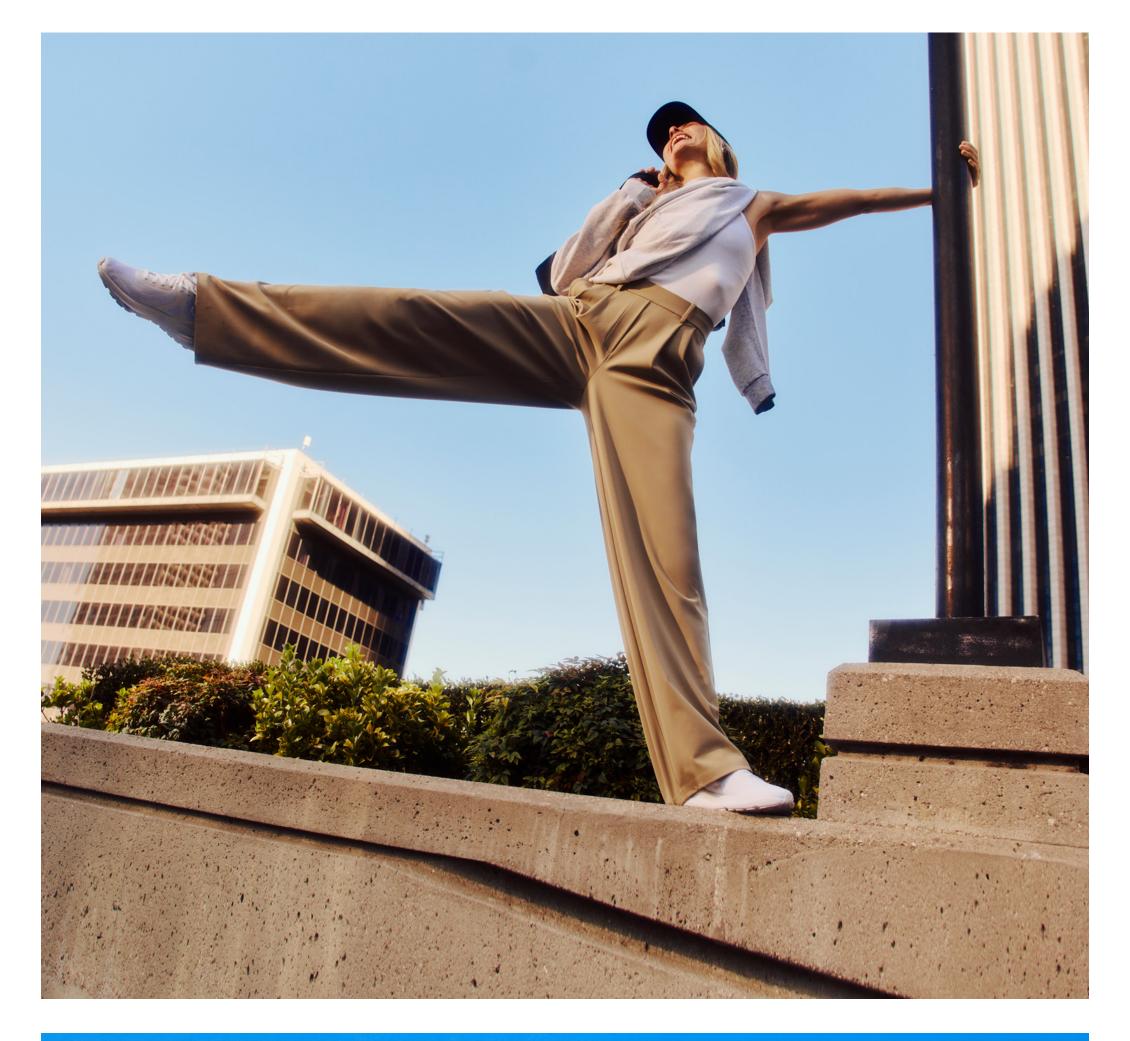
As part of lululemon athletica inc.'s commitment to protect its guests, workers, and the environment, lululemon has developed a Restricted Substances List (hereafter referred to as the "RSL") to guide vendors, and to ensure legally compliant products. The RSL contains substances that are banned or restricted from lululemon products based on worldwide regulatory standards. In addition, lululemon has voluntarily included certain additional substances in the RSL because they have been identified as hazardous to guests, workers, or the environment. Vendors, including finished goods producers and raw material suppliers, as well as internal corporate teams, should review this document and understand how it applies to their work.

This edition of the lululemon RSL is consistent with the 2025 Apparel and Footwear International RSL Management Group (AFIRM)'s own Restricted Substances List. AFIRM is an organization of global apparel and footwear brands who work together toward harmonizing restricted substance requirements. Alignment with the AFIRM RSL ensures our requirements are best-in-class.

Substances listed in Section 2.0 are restricted or banned from materials, trims, and all componentry that is part of the final product. Substances listed in Section 4.0 are restricted or banned from packaging materials.

To achieve our goal of providing an RSL that is an effective tool for safety and compliance, this document aims to encompass the following principles:

- The RSL is comprehensive and includes relevant substances that are regulated or otherwise known to be harmful to humans and/or the environment
- The RSL will be monitored and updated regularly to incorporate changes in evolving manufacturing chemistry, government regulations, industry best practices, and expanding scientific knowledge
- Wherever appropriate, we seek to harmonize our RSL program with industry leading standards





Testing Process:

A. Factory-Sourced Raw Materials:

All factory-sourced trims and raw materials shall meet the requirements set forth in this document ("the RSL Standards").

- Cost: All third-party Core and Supplemental Testing costs required to ensure compliance with the RSL will be the factory's responsibility
- Iululemon may randomly audit factory-sourced raw materials for RSL compliance. If any testing is done beyond the Core and Supplemental Testing outlined in the Test Matrix, any testing failures, retesting, reworking, or resourcing costs will be the factory's liability
- RSL testing should be done through lululemon nominated third-party labs only. RSL third-party lab test reports will be valid for ONE season only

B. Nominated Raw Material Vendors

All trims and raw materials from nominated vendors shall meet the RSL Standards set forth in this document.

- Cost: All third-party Core and Supplemental Testing costs required to ensure compliance with the RSL will be the raw material vendor's responsibility
- Iululemon may randomly audit nominated vendors' raw materials for RSL compliance. If any testing is done beyond the Core and Supplemental Testing outlined in the Test Matrix, any testing failures, retesting, reworking, or resourcing costs will be the vendor's liability. If no failures are found, Iululemon will bear the third-party testing costs. In addition, any product recalls, quarantine of failed materials, and logistics of collecting and returning failed products will be the responsibility of the vendor
- RSL test reports from lululemon's nominated third party test labs are valid for up to 12 months from the date the test report was issued

Material Submission:

- All materials submitted for RSL testing must be sent to a lululemon-approved global third-party laboratory (see Global Family for more information) to conduct testing in accordance with lululemon RSL requirements
- Samples must be identical to materials that will go into finished products, and must be taken from the production line. Samples of materials must be wrapped in aluminum foil. Each test sample must be placed in an individually sealed, labeled polybag

Validity:

- Any change in manufacturing, such as sourcing from a new facility or vendor, or processing changes of raw materials (e.g., chemical inputs, new finishing or treatments, etc.), invalidates previous tests on the changed item and requires new testing. Iululemon must be notified of such changes. Iululemon reserves the right to request additional Core or Supplemental Testing at any time. The vendor is responsible for third-party testing costs should any failures be found
- To ensure ongoing compliance, vendors must notify lululemon upon a certificate's expiration and provide a new valid certificate for their materials. Failure to do so will result in the vendors being subject to RSL testing by our appointed testing laboratories at the vendor's expense
- In the event of a failure, the lululemon Quality Assurance Compliance & Testing team will work with the responsible party (e.g., factory or raw material vendor) to document and correct the failure

Vendor Responsibility:

As a vendor to lululemon, you are personally responsible for understanding the RSL Standards, communicating the requirements to your internal teams, facilities, sub-contractors and suppliers, and delivering only compliant products. You are also responsible for seeking guidance from the lululemon team if you have any questions.

In addition to understanding the requirements of the RSL, vendors need to be current with regulations where chemical lists are regularly updated. Such examples are the European Chemicals Agency's (ECHA) SCandidate List of Substances of Very High Concern (SVHC) California's Proposition 65. Substances on the SVHC list trigger specific regulatory obligations for importers, producers and suppliers of any article when a substance exceeds a particular limit. Similarly, California publishes each year a list of substances under Proposition 65 that are known to the state to cause cancer or reproductive toxicity. Businesses that expose individuals to one or more of these chemicals above various thresholds must provide a clear and reasonable warning before the exposure occurs.

Additional information on ECHA's SVHC Candidate list and Californial's Proposition 65 list can be found at:

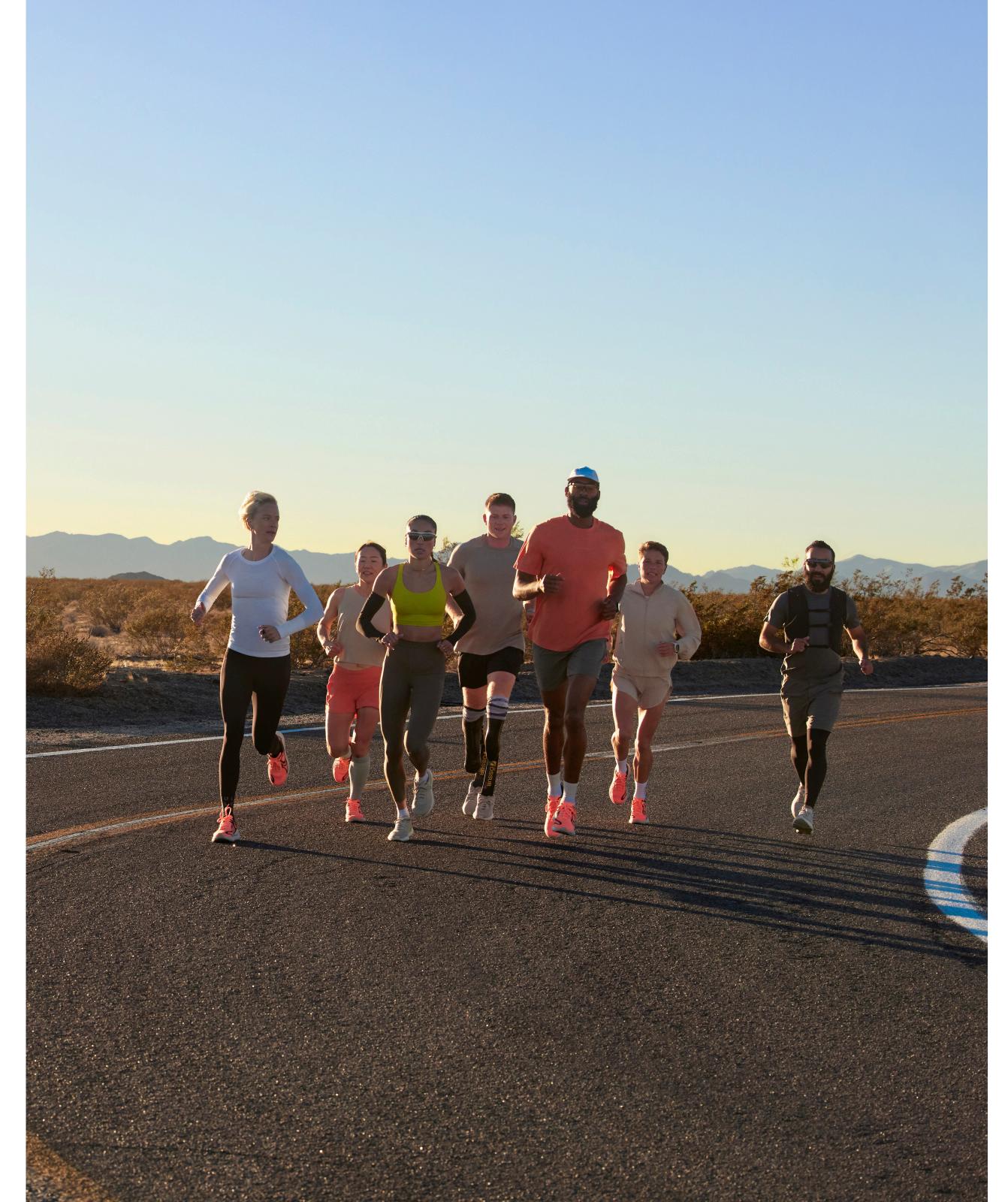
https://www.echa.europa.eu/candidate-list-table

https://oehha.ca.gov/proposition-65

If a product does not comply with this RSL, a vendor (a) may not be paid for the order, (b) may be liable for fines, fees, and all other liabilities related thereto, and (c) may lose the right to continue to do business with lululemon. Vendors must send third-party test reports from an approved lab to demonstrate materials comply with the RSL Standards

The "RSL CERTIFICATE OF ACKNOWLEDGEMENT AND AGREEMENT' in Appendix I is one of several documents vendors are required to sign during the vendor onboarding process. Once a vendor has signed the Certificate, they will no longer be required to sign and submit the Certificate to lululemon with each new edition of the lululemon RSL.

Thank you for your partnership, commitment, and actions towards creating a safer environment for our global communities.



Change Log for the Iululemon RSL V10.0

CAS No.	Substance	Modification	Page
Various	Azo-amines and Arylamine Salts	• Updated test method for leather to EN ISO 17234-1:2024	13, 36
Various	Chlorinated Benzenes and Toluenes	• Test method updated to EN 17137:2024	16
556-67-2 541-02-6 540-97-6	Octamethylcyclotetrasiloxane (D4) Decamethylcyclopentasiloxane (D5) Dodecamethylcyclohexasiloxane (D6)	 Added new category for Cyclosiloxanes restricted under POPs and REACH as SVHC with limit of 1000 ppm each Added testing recommendation in Testing Matrix 	17
Various	Brominated and Organophosphorus Substances	• Rename category from "Flame Retardants" to "Brominated and Organophosphorus Substances" since listed chemicals may have multiple uses	-14
115-86-6	Triphenyl Phosphate TPP	• Added Triphenyl Phosphate (TPP) with a 500 ppm limit due to addition to the REACH SVHC list	14

Continued Change Log for the Iululemon RSL V10.0

CAS No.	Substance	Modification	Page
Various	Fluorinated Greenhouse Gases	• Change legal reference to Regulation (EU) 2024/573	19
Various	Heavy Metals (Jewelry)	• Updated test method to ASTM F963-23 as referenced in ASTM F2923:2020 for all metals except nickel	22
Various	Ozone-depleting Substances	• Change legal reference to Regulation (EU) 2024/590	24
Various	Per- and Polyfluoroalkyl Substances (PFAS)	 Divided PFOS restriction into "PFOS and its salts" and "PFOS-related substances" with new limits Included PFHxA and its salts and PFHxA-related substance restrictions 	26, 38, 50
53306-54-0	Bis(2-propylheptyl) phthalate (DPHP)	• Added new orthophthalate DPHP with an information reporting requirement	27
3896-11-5	UV 326	 Added UV Absorber UV 326 with a 1000 ppm limit due to its inclusion on REACH SVHC list Added date for method ISO 24040:2022. 	28
Various	Volatile Organic Compounds (VOCs)	 VOC substances moved to Appendix IV Updated section to include existing VOCS from previous RSL versions Added 10 existing RSL substances from other RSL sections that are also VOC and remain unchanged in their original categories Added 22 new VOCs based on hazard trait and ability to test with a single analysis. 	30, 52
Various	Bisphenols	• Reduced BPB, BPF, and BPS allowable limits in packaging material from 1000 ppm to 200 ppm each	37
25973-55-1	UV 328	• UV 328 restricted under EU POP Annex 1 with limit of 100 ppm	29





Raw Materials and Finished Product RSL

Substances listed in this section are banned or restricted in the use of any material and/or component that is part of a lululemon product.

Definition of Ages

The age range to define "babies," "children," and "adults" can vary from country to country. Based on legislation, the age ranges listed in the table below satisfy the most restrictive global requirements.

	Age Range
Babies	0 to 36 months
Children	36 months to 14 years
Adults	14 years and older

Definition of Reporting Limits

Reporting limits are values at or above the Practical Quantification Limit (PQL). The PQL represents the lowest level at which accurate, precise, and robust data can be reported. Iululemon's RSL reporting limits should be widely achievable by laboratories across the global analytical testing industry as well as allow for combined (composite) testing where applicable.

Laboratories should report values for substances that are detected above reporting limits for the purpose of data capture. By reporting these values, instead of a simple PASS/FAIL, information can be captured by the supply chain regarding the presence of substances below the RSL limit. The reporting limits also allow data to be harmonized between various testing laboratories.

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported	
Acetophenone and 2-Phen	yl-2-Propanol					
98-86-2	Acetophenone	50 ppm each	Potential breakdown products in EVA foam when using certain cross-linking agents,	Extraction in acetone or methanol	25 ppm each	
617-94-7	2-Phenyl-2-Propanol	20 pp.11 00011	including Dicumyl Peroxide.	GC/MS, sonication for 30 minutes at 60 degrees C	20 ppiii 00011	
Alkylphenols (APs) Alkylph	enol Ethoxylates (APEOs) including all isomers					
Various	Nonylphenol (NP), mixed isomers			Textiles and Leather: EN ISO 21084:2019 Polymers and all other materials: 1 g sample/20 mL THF, sonication for 60 minutes at 70 degrees	Total of NP & OP:	
Various	Octylphenol (OP), mixed isomers	Total APs: 10 ppm Total APs + APEOs: 100 ppm	Viii F	APEOs can be used as or found in detergents, scouring agents, spinning oils, wetting agents, softeners, emulsifying/dispersing agents for dyes and prints, impregnating agents, de-gumming for silk production, dyes and pigment preparations, polyester padding, and down/feather fillings. APs are used as intermediaries in the manufacture of APEOs and antioxidants used	C, analysis according to EN ISO 21084:2019 Down (China Market Only: GB/T 14272-2021 with GB/T 23322-2018 for LC/MS)	3 ppm
Various	Nonylphenol ethoxylates (NPEOs)		Total APs + APEOs: 100 ppm Total APs + APEOs: 100 ppm APEOs and formulations containing APEOs are prohibited from use throughout supply chain and manufacturing processes. We acknowledge that residual or trace concentrations of APEOs may still be found at levels exceeding 100 ppm and that more time is necessary for the supply chain to phase them out completely.	All materials except Leather: EN ISO 18254-1:2016 with determination of APEO using LC/ MS or LC/MS/MS	Total of NPEO & OPEO:	
Various	Octylphenol ethoxylates (OPEOs)			Leather: Sample prep and analysis using EN ISO 18218-1:2023 with quantification according to EN ISO 18254-1:2016 Down (China Market Only: GB/T 14272-2021 with GB/T 23322-2018 for LC/MS)	20 ppm	

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Azo-amines and A	Arylamine Salts				
92-67-1	4-Aminobiphenyl				
92-87-5	Benzidine				
95-69-2	4-Chloro-o-toluidine				
91-59-8	2-Naphthylamine				
97-56-3	o-Aminoazotoluene				
99-55-8	2-Amino-4-nitrotoluene				
106-47-8	p-Chloraniline				
615-05-4	2,4-Diaminoanisole				
101-77-9	4,4'-Diaminodiphenylmethane				
91-94-1	3,3'-Dichlorobenzidine				
119-90-4	3,3'-Dimethoxybenzidine		Azo dyes and pigments are colourants that incorporate one or several azo groups (-N=N-) bound with aromatic compounds. Thousands of azo dyes exist, but only those which degrade to form the listed cleavable amines are restricted. Azo dyes that release these amines are regulated and should no longer be used for dyeing textiles.		
119-93-7	3,3'-Dimethylbenzidine			All materials except Leather: EN ISO 14362-1:2017	
838-88-0	3,3'-dimethyl-4,4'- diaminodiphenylmethane			Leather: EN ISO 17234-1:2024	
120-71-8	p-Cresidine	20 ppm each		LIN 130 17 204-1.2024	5 ppm each
101-14-4	4,4'-Methylen-bis(2-chloraniline)			p-Aminoazobenzene: All materials except Leather:	C pp esse
101-80-4	4,4'-Oxydianiline			EN ISO 14362-3:2017	
139-65-1	4,4'-Thiodianiline			Leather:	
95-53-4	o-Toluidine			EN ISO 17234-2:2011	
95-80-7	2,4-Toluylendiamine				
137-17-7	2,4,5-Trimethylaniline				
95-68-1	2,4 Xylidine				
87-62-7	2,6 Xylidine				
90-04-0	2-Methoxyaniline (= o-Anisidine)				
60-09-3	p-Aminoazobenzene				
3165-93-3	4-Chloro-o-toluidinium chloride				
553-00-4	2-Naphthylammoniumacetate				
39156-41-7	4-Methoxy-m-phenylene diammonium sulphate				
21436-97-5	2,4,5-Trimethylaniline hydrochloride				



CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Bisphenols					
80-05-7	Bisphenol-A (BPA)	1ppm	BPA may be used in the production of epoxy resins, polycarbonate plastics, flame retardants, and PVC. BPS may be used as a substitute for BPA for some specific uses, including in thermal receipt paper. BPS and BPF can be found in polyamide dye-fixing agents and in sulfone- and phenol- based leather synthetic tanning agents.	All other materials: Leather: EN ISO 11936:2023 1g sample/20 ml THF, sonication for 60 minutes at 60° C, then add methanol or acetonitrile for precipitation prior to analysis with LC/MS	Leather: 10 ppm each All other materials:
80-09-1	Bisphenol-S (BPS)		BPA and BPS can be found in recycled polymeric and paper materials due to polycarbonate plastic and thermal receipt paper made with bisphenols entering waste streams.	Note for textiles: For precipitation, draw the extract to another	0.1 ppm for individual samples 1 ppm for composite samples
77-40-7	Bisphenol-B (BPB)	100 ppm each	BPA, BPS, and BPB are included on the REACH SVHC list. Additional restrictions on the entire class of bisphenols are expected, with a revised restriction proposal forthcoming in the European Union.	container and add methanol or acetonitrile. This keeps the extraction process consistent	
620-92-8	Bisphenol-F (BPF)				
Brominated and C	Organophosphorus Substances (Formerly Flame Reta	rdants)			
84852-53-9 32534-81-9 32536-52-0 1163-19-5 Various 79-94-7 59536-65-1 3194-55-6	Decabromodiphenyl ethane (DBDPE) Pentabromodiphenyl ether (PentaBDE) Octabromodiphenyl ether (OctaBDE) Decabromodiphenyl ether (DecaBDE) All other Polybrominated diphenyl ethers (PBDEs) Tetrabromobisphenol A (TBBP A) Polybromobiphenyls (PBB) Hexabromocyclododecane (HBCDD) 2,2-bis(bromomethyl)-1,3- propanediol (BBMP)	10 ppm each	With very limited exceptions, flame-retardant substances, including the entire class of organohalogen flame retardants, should no longer be applied to materials during production. Listed here are examples of flame-retardant substances used historically across the apparel and footwear industry. It is not intended to be a complete list. Other flame retardants not applicable to this industry are regulated worldwide by the Stockholm Convention and the Aarhus Protocol, which have been implemented in the European Union under the Persistent Organic Pollutants (POPs) Regulation.	All materials: EN ISO 17881- 1:2016	5 ppm each
13674-87-8 25155-23-1 126-72-7 545-55-1 115-96-8 5412-25-9	Tris(1,3-dichloro-isopropyl) phosphate (TDCPP) Trixylyl phosphate (TXP) Tris(2,3,-dibromopropyl) phosphate (TRIS) Tris(1-aziridinyl)phosphine oxide) (TEPA) Tris(2-chloroethyl)phosphate (TCEP) Bis(2,3-dibromopropyl) phosphate (BDBPP)		The 10 ppm limit is established to account for incidental impurities, by-products, and contaminants. Flame retardants should not be used for any other purpose (e.g., as softeners or plasticizers).	All materials: EN ISO 17881- 2:2016	
115-86-6	Triphenyl possphate (TPP)	500 ppm	May be used as a flame retardant, an antioxidant for polyurethane, or as an alternative plasticizer to orthophthalates. TPP is a substance of very high concern (SVHC) under REACH).	All materials: EN ISO 17881-2:2016	50 ppm

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported		
Chlorinated Parat	Chlorinated Paraffins						
85535-84-8	Short-chain Chlorinated Paraffins (SCCPs) (C10-C13)	1000 ppm		Leather: ISO 18219-1:2021 (SCCP)	100 ppm		
85535-85-9	Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	1000 ppm	May be used as softeners, flame retardants, or fat-liquoring agents in leather production; also as a plasticizer in polymer production.	ISO 18219-2:2021 (MCCP) Textiles and all other materials: ISO 22818:2021 (SCCP + MCCP)	100 ppm		
Chlorophenols							
15950-66-0	2,3,4-Trichlorophenol (TriCP)						
933-78-8	2,3,5-Trichlorophenol (TriCP)		Chlorophenols are polychlorinated compounds used as preservatives or pesticides. Pentachlorophenol (PCP), Tetrachlorophenol (TeCP), and Trichlorophenols (TriCP) are sometimes used to prevent mold and kill insects when growing cotton and when storing/transporting fabrics. PCP, TeCP, and TriCP can also be used as in-can preservatives in print pastes and other chemical mixtures.	All materials: EN 17134-2:2023			
933-75-5	2,3,6-Trichlorophenol (TriCP)						
95-95-4	2,4,5-Trichlorophenol (TriCP)						
88-06-2	2,4,6-Trichlorophenol (TriCP)	0.5 ppm each			0.5 ppm cook		
609-19-8	3,4,5-Trichlorophenol (TriCP)	0.5 ppm each			0.5 ppm each		
4901-51-3	2,3,4,5-Tetrachlorophenol (TeCP)						
58-90-2	2,3,4,6-Tetrachlorophenol (TeCP)						
935-95-5	2,3,5,6-Tetrachlorophenol (TeCP)						
87-86-5	Pentachlorophenol (PCP) and its salts and esters						

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Chlorinated Benz	enes and Toluenes				
95-49-8	2-Chlorotoluene				
108-41-8	3-Chlorotoluene				
106-43-4	4-Chlorotoluene				
32768-54-0	2,3-Dichlorotoluene				
95-73-8	2,4-Dichlorotoluene				
19398-61-9	2,5-Dichlorotoluene				
118-69-4	2,6-Dichlorotoluene				0.2 ppm each
95-75-0	3,4-Dichlorotoluene				
2077-46-5	2,3,6-Trichlorotoluene		Chlorobenzenes and Chlorotoluenes (Chlorinated Aromatic Hydrocarbons) can be used as carriers in the dyeing process of polyester or wool/polyester fibers. They can also be used as solvents. Cross-contamination from anti-moth agents and poly shipping bags may cause failures. Important: The Gulf Cooperation Council (GCC) maintains a limit of 1 ppm for 1,2-Dichlorobenzene in textiles.	All materials: EN 17137:2024	
6639-30-1	2,4,5-Trichlorotoluene				
76057-12-0	2,3,4,5-Tetrachlorotoluene				
875-40-1	2,3,4,6-Tetrachlorotoluene				
1006-31-1	2,3,5,6-Tetrachlorotoluene				
877-11-2	Pentachlorotoluene	Total: 1 ppm			
541-73-1	1,3-Dichlorobenzene				
106-46-7	1,4-Dichlorobenzene				
87-61-6	1,2,3-Trichlorobenzene				
120-82-1	1,2,4-Trichlorobenzene				
108-70-3	1,3,5-Trichlorobenzene				
634-66-2	1,2,3,4-Tetrachlorobenzene				
634-90-2	1,2,3,5-Tetrachlorobenzene				
95-94-3	1,2,4,5-Tetrachlorobenzene				
608-93-5	Pentachlorobenzene				
118-74-1	Hexachlorobenzene				
5216-25-1	p-Chlorobenzotrichloride				
98-07-7	Benzotrichloride				
100-44-7	Benzyl Chloride				
95-50-1	1,2-Dichlorobenzene	10 ppm			1ppm

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Cyclosiloxanes					
556-67-2	Octamethylcyclotetrasiloxane (D4)	1000 ppm each	May be present in silicone pads and as contaminants in formulations that contain silicone, like silicone softeners and those used for prints. They are SVHCs and will be restricted from use in solvents used for dry cleaning of textiles, leather, and fur in the EU beginning 06 June 2026 with derogations.	All materials: Ultrasonic extraction with nonchlorinated organic solvent for 30 min at 40°C then GC/MS	50 ppm each
541-02-6	Decamethylcyclopentasiloxane (D5)				
540-97-6	Dodecamethylcyclohexasiloxane (D6)				
Dimethylfumarate					
624-49-7	Dimethylfumarate (DMFu)	0.1 ppm	DMFu is an anti-mold agent used in sachets in packaging to prevent the buildup of mold, especially during shipping.	All materials: ISO 16186:2021	0.05 ppm

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Dimethylfumarate					
624-49-7	Dimethylfumarate (DMFu)	0.1 ppm	DMFu is an anti-mold agent used in sachets in packaging to prevent the buildup of mold, especially during shipping.	All materials: ISO 16186:2021	0.05 ppm
Dyes (Forbidden a	nd Disperse)				
2475-45-8	C.I. Disperse Blue 1				
2475-46-9	C.I. Disperse Blue 3				
3179-90-6	C.I. Disperse Blue 7				
3860-63-7	C.I. Disperse Blue 26				15 ppm each
56524-77-7	C.I. Disperse Blue 35A		Disperse dyes are a class of water-insoluble dyes that penetrate the fiber system of synthetic or manufactured fibers and are held in place by physical forces without forming chemical bonds. Disperse dyes are used in synthetic fiber (e.g., polyester, acetate, polyamide). Restricted disperse dyes are suspected of causing allergic reactions and are prohibited from use for dyeing of textiles.	All materials: DIN 54231:2022	
56524-76-6	C.I. Disperse Blue 35B				
12222-97-8	C.I. Disperse Blue 102				
12223-01-7	C.I. Disperse Blue 106				
61951-51-7	C.I. Disperse Blue 124				
23355-64-8	C.I. Disperse Brown 1	30 ppm each			
2581-69-3	C.I. Disperse Orange 1				
730-40-5	C.I. Disperse Orange 3				
82-28-0	C.I. Disperse Orange 11				
12223-33-5					
13301-61-6	C.I. Disperse Orange 37/76/59				
51811-42-8					
85136-74-9	C.I. Disperse Orange 149				
2872-52-8	C.I. Disperse Red 1				
2872-48-2	C.I. Disperse Red 11				

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Dyes, continued					
3179-89-3	C.I. Disperse Red 17				
61968-47-6	C.I. Disperse Red 151				
119-15-3	C.I. Disperse Yellow 1				
2832-40-8	C.I. Disperse Yellow 3				
6300-37-4	C.I. Disperse Yellow 7				
6373-73-5	C.I. Disperse Yellow 9				
6250-23-3	C.I. Disperse Yellow 23				
12236-29-2	C.I. Disperse Yellow 39				
54824-37-2	C.I. Disperse Yellow 49		Disperse dyes are a class of water-insoluble dyes that penetrate the fiber system of synthetic or manufactured fibers and are held in place by physical forces without forming chemical bonds. Disperse dyes are used in synthetic fiber (e.g., polyester, acetate, polyamide). All materials: DIN 54231:2022		
6858-49-7					
54077-16-6	C.I. Disperse Yellow 56				
3761-53-3	C.I. Acid Red 26				
569-61-9	C.I. Basic Red 9				
569-64-2		30 ppm each		All materials: DIN 54231:2022	15 ppm each
2437-29-8	C.I. Basic Green 4		Restricted disperse dyes are suspected of causing allergic reactions and are prohibited from use for dyeing of textiles.		
10309-95-2					
548-62-9	C.I. Basic Violet 3				
632-99-5	C.I. Basic Violet 14				
2580-56-5	C.I. Basic Blue 26				
1937-37-7	C.I. Direct Black 38				
2602-46-2	C.I. Direct Blue 6				
573-58-0	C.I. Direct Red 28				
16071-86-6	C.I. Direct Brown 95				
60-11-7	4-Dimethylaminoazobenzene (Solvent Yellow 2)				
6786-83-0	C.I. Solvent Blue 4				
561-41-1	4,4'-bis(dimethylamino)-4''- (methylamino)trityl alcohol				

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported	
Dyes, Navy Blue						
118685-33-9	Component 1: C39H23ClCrN7O12S.2Na	30 ppm each	Navy blue colourants are regulated and prohibited from use for dyeing of textiles.	All materials: DIN 54231:2022	15 ppm each	
Not allocated	Component 2: C46H30CrN10O20S2.3Na	зо ррттеаст	Index 611-070-00-2	All materials. Din 34231.2022	15 рртт еаст	
Fluorinated Green	house Gases					
Various	See Regulation (EU) 2024/573 for a complete list.	0.1 ppm each	Prohibited from use. May be used as foam blowing agents, solvents, fire retardants, and aerosol propellants.	Sample preparation: Purge and trap — thermal desorption or SPME Measurement: GC/MS	0.1 ppm each	
Formaldehyde						
50-00-0	Formaldehyde	Adults and children: 75 ppm Babies: 16 ppm	Used in textiles as an anti-creasing and anti-shrinking agent. It is also often used in polymeric resins. Although very rare in Apparel and Footwear, composite wood materials (such as particle board and plywood) must comply with existing California and forthcoming U.S. formaldehyde emission requirements (40 CFR 770). Important: United Arab Emirates Cabinet Resolution No. (54) restricts Formaldehyde in children's textiles to 20 ppm. Indonesia Ministerial Regulation No. 18 limits Formaldehyde to "not detected" (16 ppm) in the following products: towels, bedding, and handkerchiefs.	All materials except Leather: JIS L 1041-2011 A (Japan Law 112) or EN ISO 14184- 1:2011 Leather: EN ISO 17226-2:2019 with EN ISO 17226-1:2021 confirmation method in case of interferences. Alternatively, EN ISO 17226-1:2021 can be used on its own.	16 ppm	
Heavy Metals (Nor	n-Jewelry) Extractable and Total Content					
7440-36-0	Antimony (Sb)	Extractable: 30 ppm	Found in or used as a catalyst in polymerization of polyester, flame retardants, fixing agents, pigments, and alloys.	All materials except Leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2019	Extractable: 3 ppm	
7440-38-2	Arsenic (As)	Extractable: 0.2 ppm Total: 100 ppm	Arsenic and its compounds can be used in preservatives, pesticides, and defoliants for cotton, synthetic fibers, paints, inks, trims, and plastics.	Extractable: All materials except Leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2019 Total: All materials except Leather: DIN EN 16711-1:2016 Leather: DIN EN ISO 17072-2:2019	Extractable: 0.1 ppm Total: 10 ppm	

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Heavy Metals (No	on-Jewelry), continued				
7440-39-3	Barium (Ba)	Extractable: 1000 ppm	Barium and its compounds can be used in pigments for inks, plastics, and surface coatings, as well as in dyeing, mordants, filler in plastics, textile finishes, and leather tanning.	All materials except Leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2019	Extractable: 100 ppm
7440-43-9	Cadmium (Cd)	Extractable: 0.1 ppm Total: 40 ppm	Cadmium compounds are used as pigments (especially in red, orange, yellow, and green); as a stabilizer for PVC; and in fertilizers, biocides, and paints.	Extractable: All materials except Leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2019 Total: All materials except Leather: DIN EN 16711-1:2016 Leather: DIN EN ISO 17072-2:2019	Extractable: 0.05 ppm Total: 5 ppm
7440-47-3	Chromium (Cr)	Extractable: Textiles: Adults and Children: 2 ppm Babies: 1 ppm	Chromium compounds can be used as dyeing additives; dye-fixing agents; colour-fastness after-treatments; dyes for wool, silk, and polyamide (especially dark shades); and leather tanning. Important: Egypt restricts extractable Chromium to 2 ppm in leather products for babies and 200 ppm in leather products for other ages.	Textiles: DIN EN 16711-2:2016 Leather: EN ISO 17072-1:2019	Extractable: 0.5 ppm
18540-29-9	Chromium VI	Extractable: Leather: 3 ppm Textiles: 1 ppm	Though typically associated with leather tanning, Chromium VI also may be used in the "after-chroming" process for wool dyeing (Chrome salts applied to acid-dyed wool to improve fastness). Important: Saudi Arabia and Egypt have a limit of Not Detected (< 0.5 ppm) in textiles.	Textiles: DIN EN 16711-2:2016 with EN ISO 17075-1:2017 if Cr is detected Leather: EN ISO 17075-1:2017 and EN ISO 17075-2:2017 for confirmation in case the extract causes interference. Alternatively, EN ISO 17075-2:2017 may be used on its own. Ageing test: ISO 10195:2018 Method A2 is used at brand discretion.	Extractable: Leather: 3 ppm Textiles: 0.5 ppm
7440-48-4	Cobalt (Co)	Extractable: Adults: 4 ppm Children and babies: 1 ppm	Cobalt and its compounds can be used in alloys, pigments, dyestuff, and the production of plastic buttons.	All materials except Leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2019	Extractable: 0.5 ppm

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
7440-50-8	Copper (Cu)	Extractable: Adults: 50 ppm Children and babies: 25 ppm	Copper and its compounds can be found in alloys and pigments, and in textiles as an antimicrobial agent. Copper is exempt from restriction limits in Metal parts. Indonesia Ministerial Regulation No. 18 limits copper to 25 ppm in the following products: towels, bedding, and handkerchiefs.	All materials except Leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2019	Extractable: 5 ppm
7439-92-1	Lead (Pb)	Extractable: Adults: 1 ppm Children and babies: 0.2 ppm Total: 90 ppm	May be associated with alloys, plastics, paints, inks, pigments, and surface coatings. Crystal or "lead glass" is exempt from total Lead restrictions. Indonesia Ministerial Regulation No. 18 limits extractable Lead to 0.2 ppm in the following products: towels, bedding, and handkerchiefs.	Extractrable: All materials except Leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2019 Total: Non-metal: CPSC-CH-E1002-08.3 Metal: CPSC-CH-E1001-08.3 Lead in paint and surface coatings: CPSC-CH-E1003-09.1	Extractable: 0.2 ppm Total: 10 ppm
7439-97-6	Mercury (Hg)	Extractable: 0.02 ppm Total: 0.5 ppm	Mercury compounds can be present in pesticides and as contaminants in caustic soda (NaOH). They may also be used in paints and as catalysts in the manufacture of PU and vinyl chloride for use in PVC.	Extractable: All materials except leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2019 Total: All materials except leather: DIN EN 16711-1:2016 Leather: DIN EN ISO 17072-2:2019	Extractable: 0.02 ppm Total: 0.1 ppm
7440-02-0	Nickel (Ni)	Extractable: 1 ppm Release (metal parts): Prolonged skin contact: 0.5 µg/cm²/week Eyewear frames: 0.5 µg/cm²/week	Nickel and its compounds can be used for plating and improving the hardness of alloys, as well as increasing overall corrosion-resistance. They can also occur as impurities in pigments and alloys.	Extractable: All materials except leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2019 Release: EN 12472:2020 and EN 1811:2023 Release (eyewear frames): EN 16128:2015	Extractable: 0.1 ppm Release: 0.5 μg/cm²/week
7782-49-2	Selenium (Se)	Extractable: 500 ppm	Selenium and its compounds may be found in paints and inks. Important: Morocco and Egypt now have a 100 ppm limit	All materials except leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2019	Extractable: 50 ppm

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported	
Heavy Metals ((Jewelry)			Sample preparation for jewelry and wearables: Wax areas not intended for skin contact: EN 1811:2023		
7440-36-0	Antimony (Sb)	Paints and Coatings: Extractable: 60 ppm	Antimony and its compounds can be used as a flame retardant in paints, as well as a colourant in pigments.	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 5 ppm	
7440-38-2	Arsenic (As)	Paints and Coatings: Extractable: 25 ppm	Arsenic and its compounds can be used in paints and inks.	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 5 ppm	
7440-39-3	Barium (Ba)	Paints and Coatings: Extractable: 1000 ppm	Barium and its compounds can be used in pigments for ink.	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 100 ppm	
7440-43-9	Cadmium (Cd)	Substrates, Paints, and Coatings: Total: Adults: 75 ppm Children: 40 ppm	Cadmium and its compounds are used as pigments (especially in red, orange, yellow, and green). It can also be used in alloys to improve hardness or be found as a contaminant.	ASTM F963-23 as referenced in ASTM F2923:2020	Total: 5 ppm	
7440-47-3	Chromium (Cr)	Paints and Coatings: Extractable: 60 ppm	Chromium and its compounds can be used as pigments in paints. It can also be used as part of alloys such as stainless steel.	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 5 ppm	
7439-92-1	Lead (Pb)	Substrates, Paints, and Coatings: Total: 90 ppm	Lead and its compounds may be associated with plastics, paints, inks, pigments, and surface coatings. It can also be found in metals as a contaminant. Crystal or "lead glass" is exempt from total lead restrictions.	ASTM F963-23 as referenced in ASTM F2923:2020	Total: 10 ppm	
7439-97-6	Mercury (Hg)	Paints and Coatings: Extractable: 60 ppm	Mercury and its compounds may be used in paints and can be found as a contaminant in alloys and in gold due to its use during the extraction process.	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 5 ppm	
7440-02-0	Nickel (Ni)	Release (metal parts): Prolonged skin contact: 0.5µg/cm²/ week Pierced part: 0.2µg/cm²/week	Nickel and its compounds can be used for plating alloys and improving the corrosion-resistance and hardness of alloys. They can also occur as impurities in pigments and alloys.	EN 12472:2020 and EN 1811:2023	Release: Prolonged skin contact: 0.5 µg/cm²/week Pierced part: 0.2 µg/cm²/week	
7782-49-2	Selenium (Se)	Paints and Coatings: Extractable: 500 ppm	Selenium and its compounds may be found in paints and inks.	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 50 ppm	

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported	
Monomers						
100-42-5	Styrene, Free	500 ppm	Styrene is a precursor for polymerization and maybe present in various Styrene copolymers like plastic buttons. Free styrene is restricted, not total styrene.	Extraction in Methanol GC/MS, sonication at 60 degrees C for 60 minutes	50 ppm	
75-01-4	Vinyl Chloride	1 ppm	Vinyl Chloride is a precursor for polymerization and may be present in various PVC materials like prints, coatings, flip flops, and synthetic leather.	EN ISO 6401:2022	1 ppm	
N-Nitrosamines						
62-75-9	N-nitrosodimethylamine (NDMA)					
55-18-5	N-nitrosodiethylamine (NDEA)					
621-64-7	N-nitrosodipropylamine (NDPA)			EN ISO 19577:2019 with LC/MS/MS verification if positive		
924-16-3	N-nitrosodibutylamine (NDBA)					
100-75-4	N-nitrosopiperidine (NPIP)	0.5 ppm each	Can be formed as by-product in the production of rubber.		0.5 ppm each	
930-55-2	N-nitrosopyrrolidine (NPYR)					
59-89-2	N-nitrosomorpholine (NMOR)					
614-00-6	N-nitroso N-methyl N-phenylamine (NMPhA)					
612-64-6	N-nitroso N-ethyl N-phenylamine (NEPhA)					

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Organotin Compo	punds				
Various	Dibutyltin (DBT)				
Various	Dioctyltin (DOT)				
Various	Monobutyltin (MBT)				
Various	Tricyclohexyltin (TCyHT)				
Various	Trimethyltin (TMT)				
Various	Trioctyltin (TOT)				
Various	Tripropyltin (TPT)				
Various	Dimethyltin (DMT)	1 ppm each	stabilizers in plastics/rubber. In textiles and apparel, organotins are associated with plastics/rubber.		
Various	Diphenyltin (DPhT)			All materials: ISO 16179:2025 or EN ISO 22744-1:2020	0.1 ppm each
Various	Dipropyltin (DPT)				
Various	Monomethyltin (MMT)				
Various	Monophenyltin (MPhT)				
1461-25-2	Tetrabutyltin (TeBT)				
597-63-8	Tetraethyltin (TeET)				
3590-84-9	Tetraoctyltin (TeOT)				
Various	Tributyltin (TBT)	0.5			
Various	Triphenyltin (TPhT)	0.5 ppm each			
Ortho-phenylphe	nol				
90-43-7	Ortho-phenylphenol (OPP)	1000 ppm	OPP is used for its preservative properties in leather or as a carrier in polyester dyeing processes.	All materials: EN 17134-2:2023	100 ppm
Ozone-Depleting	Substances				
Various	See Regulation (EU) 2024/590 for a complete list.	5 ppm	Prohibited from use. Ozone-depleting substances have been used as a foaming agent in PU foams as well as a dry-cleaning agent.	All materials: GC/MS headspace 120 degrees C for 45 minutes	5 ppm

CAS No.	Substance	Limits Raw Materials and Finished Product	Raw Materials and Finished Samp		Reporting Limits Limits above which test results should be reported
Per- and Polyfluo	proalkyl Substances (PFAS)				
Various	All PFAS as measured by Total Organic Fluorine	50 ppm		EN 14582:2016 or ASTM D7359:2018 Methods quantify total fluorine (inorganic + organic). See AFIRM PFAS Phaseout Guidance for additional information about total versus total organic fluorine.	20 ppm total
Various	Perfluorooctane Sulfonate (PFOS) and its salts	25 ppb total	Regulations around the world ban the use of PFAS in apparel and footwear, with partial or full exemptions for recycled materials, personal protective equipment,		25 ppb total
Various	PFOS-related substances	1000 ppb total			1000 ppb total
Various	Perfluorooctanoic Acid (PFOA) and its salts	for recycled materials, personal protective equipment, and outdoor apparel for severe wet conditions. See 25 ppb total California AB 1817 and check with your brand customer for their exemption policy, which may depend on the market. PFAS may be used in commercial water-, oil-, and stain-		25 ppb total	
Various	PFOA-related substances	1000 ppb total			1000 ppb total
Various	Perfluorohexane-1-sulphonic acid (PFHxS) and its salts	25 ppb total	that remove moisture, e.g., PTFE. Refer to Appendix III for a list of PFAS substances and CAS Numbers for which testing can be conducted to indicate whether PFAS chemistry is present above	All va ataviala EN 17001 1 0005	25 ppb total
Various	PFHxS-related substances	1000 ppb total	restricted levels due to intended use or unintended contamination. See AFIRM PFAS Phaseout Guidance for a	All materials: EN 17681-1:2025	1000 ppb total
Various	C9-C14 Perfluorocarboxylic acids (PFCAs) and their salts	25 ppb total	recommended testing approach to ensure compliance with all global regulations using the methods included in this section.		25 ppb total
Various	C9-C14 PFCAs-related substances	260 ppb total			260 ppb total
Various	Perfluorohexanoic Acid (PFHxA) and its salts	25 ppb			25 ppb total
Various	PFHxA-related substances	1000 ppb			1000 ppb
Pesticides, Agric	ultural				
Various	See Appendix II for a complete list.	0.5 ppm each	May be found in natural fibers, primarily cotton.	All materials: EN ISO 15913:2003 or EPA 8081/EPA 8151A or BVL L 00.00-34:2010-09	0.5 ppm each

Problems 2000 D. C. Normonylatinosis (2000) 179-97 SCA-digit respect Colors 2012-19-19-0 Discolor produce (1004) 20-19-19-0 Discolor produce (1004) 20-19-0 Discolo	CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
D 84 D D Congress of NOTE Description and NOTE Desc	Phthalates					
178-17 Discharge print also CHPI	28553-12-0	Di-Iso-nonylphthalate (DINP)				
Section Supplementation (SES)	117-84-0	Di-n-octylphthalate (DNOP)				
80 (6.5 7 But systems yet haldes 1989) 84-70-2 Duty photoses (1981) 84-80-3 Discoursy photoses (1981) 84-80-3 Description of the Comment of t	117-81-7	Di(2-ethylhexyl)-phthalate (DEHP)				
Discharge in the DIPS Be-69-8 Discharge phrase DIPS Be-69-8 Discharge phrase DIPS States of ethe patholic pict forthalised on class of ergan communication from the patholic pict forthalised on class of ergan communication from the patholic pict forthalised on class of ergan communication from the patholic pict forthalised on class of ergan communication from the patholic pict forthalised on class of ergan communication from the patholic pict forthalised on class of ergan communication from the patholic pict forthalised on class of ergan communication from the patholic pict forthalised on class of ergan communication from the patholic pict forthalised on class of ergan communication from the patholic pict forthalised on conducts. Figure 19-18 Surple or expand on for all materials CFBC Observation from the patholic pict forthalised on conducts. Figure 29-18 Figure	26761-40-0	Diisodecylphthalate (DIDP)				
84-99-5 Disobotyorithalate (DBI) 84-99-5 Dishplothidate (DBI) 84-99-2 Dishplothidate (DBI) 85-99-2 Dishplothidate (DBI) 85-99-3 Dimetry orthalate (DAIP) 85-99-3 Dishplothidate (DBI) 85-99-3 Dishplothidate (DBI) 85-99-3 Dishplothidate (DBI) 85-99-4	85-68-7	Butylbenzylphthalate (BBP)				
Ease of ortholograms (Chi-F) 84 69 2 Destributionate (DMP) 131 8 0 Destributionate (DMP) 142 Benandationsovia and discussions (Chi-F) 158 8 statementowyshop (Initiate (DMP) 158 8 statementowyshop (Initiate (DMP) 159 Destributionate (DMP) 150	84-74-2	Dibutylphthalate (DBP)				
Bet-9-2	84-69-5	Diisobutylphthalate (DIBP)				
Eaters of entition phthaliate and a class of organic compound commonly added to place to the phthaliate and a class of organic compound commonly added to place to the phthaliate and a class of organic compound commonly added to place to the phthaliate and a class of organic compound commonly added to place to the phthaliate and a class of organic compound commonly added to place to the phthaliate and to place to the phthaliate (PSC-Ch-Ch01-064). Eaters of entition phthaliate (PSC-Ch-Ch01-064). Phthaliate common to the phthaliate and to place to the p	84-75-3	Di-n-hexylphthalate (DnHP)				
131-18-0 Dispersity phthalates (DFENP) Extremely phthala	84-66-2	Diethylphthalate (DEP)				
Dimpertly phthalate (DPENP) 84-61-7 Dicycloheayl phthalate (DCHP) 71886-89-6 L2-Renzendicarboyle acid, di-G8-b branched and linear and social di-Base (BSI) phthalate (DPP) 71886-89-6 L2-Renzendicarboyle acid, di-G8-b branched and linear and social di-Base (BSI) phthalate (DPP) 71886-89-6 Dicycloheayl phthalate (DPP) 71886-9 Dicycloheayl phthalate (DPP) 7	131-11-3	Dimethylphthalate (DMP)		Esters of ortho-phthalic acid (phthalates) are a class of organic compound commonly added		
17.888-89-6 12.Benzenedicarboxylia acid, dir.C8-8-branched alkyli esters, C7-rich 17.83-8 18is12-methoxyethyl phthalate 500 ppm auch Total: 1000 ppm 600 ppm 600 ppm auch Total: 1000 ppm 600 ppm auch Total: 1	131-18-0	Di-n-pentyl phthalate (DPENP)		to plastics to increase flexibility. They are sometimes used to facilitate the molding of plastic by		
17.88-8-9-6 1,2-Bernzenedicarboxylis acid, cli-C8-8 branched adily losters, C7-rich 17.82-8 Bisi2-methoxyethyl) phthalate 605-50-5 Diisopenyl phthalate (DPP) 131-16-8 Dipropyl phthalate (DPP) 131-16-8 Dipropyl phthalate (DPP) 131-16-8 Diisopetyl	84-61-7	Dicyclohexyl phthalate (DCHP)		Phthalates can be found in:		
## Plastic buttons Flastic buttons	71888-89-6			Print pastes		
• Plastic eleevings • Polymeric coatings • Plantality of publication, Su	117-82-8	Bis(2-methoxyethyl) phthalate	500 ppm each			
131-16-8 Dipropyl phthalate (DPRP) 27554-26-3 Diisooctyl phthalate (DIOP) 88515-50-4 12-Benzenedicarboxylic acid, dihexyl ester, branched and linear 71850-09-4 Diisohexyl phthalate (DIHxP) 8877-08-0 12-Benzenedicarboxylic acid Dipentyl esters (DHNUP) 8877-08-0 24-Benzenedicarboxylic acid Dipentyl esters or mixedidecyl and hexyl and cotyl diesters with ≥ 0.3% of dihexyl and cotyl diesters with ≥ 0.3% of dihexyl and cotyl diesters with ≥ 0.3% of dihexyl phthalate.	605-50-5	Diisopentyl phthalate (DIPP)			based on weight of print only; 8.2 Calculation based	50 ppm each
Discoctyl phthalate (DIOP) 1.2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	131-16-8	Dipropyl phthalate (DPRP)			· ·	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 1,2-Benzenedicarboxylic acid, di-C7- 11-branched and linear 1,2-Benzenedicarboxylic acid, di-C7- 11-branched and linear alkyl esters (DHNUP) 1,2-Benzenedicarboxylic acid Dipentyl ester, branched and linear 1,2-Benzenedicarboxylic acid, di-C6-10- alkyl esters or mixedindecyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate; 1,2-Benzenedicarboxylic acid, di-C6-10- alkyl esters or mixedindecyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate;	27554-26-3	Diisooctyl phthalate (DIOP)		very high concern (SVHC) candidate list at the time of publication. Suppliers should assume that the	All materials except textiles: GC/MS	
Tilson-09-4 Diisohexyl phthalate (DIHxP) 1.2-Benzenedicarboxylic acid, di-C7- 11-branched and linear alkyl esters (DHNUP) 84777-06-0 1,2-Benzenedicarboxylic acid Dipentyl ester, branched and linear 1.2-Benzenedicarboxylic acid Dipentyl ester, branched and linear 1.2-Benzenedicarboxylic acid Dipentyl ester, branched and linear 1.2-Benzenedicarboxylic acid, di-C6-10- alkyl esters or mixedndecyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate;	68515-50-4			is updated frequently.		
11-branched and linear alkyl esters (DHNUP) 84777-06-0 1,2-Benzenedicarboxylic acid Dipentyl ester, branched and linear 1,2-Benzenedicarboxylic acid, di-C6-10- alkyl esters or mixedndecyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate;	71850-09-4	Diisohexyl phthalate (DIHxP)				
Dipentyl ester, branched and linear 1,2-Benzenedicarboxylic acid, di-C6-10- alkyl esters or mixedndecyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate;	68515-42-4	11-branched and linear alkyl esters				
alkyl esters or mixedndecyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate;	84777-06-0	•				
,,,,,,,,,,	68648-93-1	alkyl esters or mixedndecyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl				
decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di-C6-10- alkyl esters	68515-51-5	1,2-Benzenedicarboxylic acid, di-C6-10-				
776297-69-9 n-Pentyl-isopentylphthalate (nPIPP)						
26040-51-7 Bis(2-ethylhexyl) tetrabromophthalate						
53306-54-0 Bis(2-propylheptyl) phthalate (DPHP) Information olny AFIRM recommends testing to assess content levels.			Information olny	AFIRM recommends testing to assess content levels.		

CAS No.	Substance	Limits Raw Materials ar Product	nd Finished	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported	
Polycyclic Aromati	ic Hydrocarbons (PAHs)						
83-32-9	Acenaphtene						
208-96-8	Acenaphthylene						
120-12-7	Anthracene						
191-24-2	Benzo(g,h,i)perylene						
86-73-7	Fluorene	No individual					
206-44-0	Fluoranthene	restriction					
193-39-5	Indeno(1,2,3-cd)pyrene			PAHs are natural components of crude oil and are common residues from oil refining. PAHs have a characteristic smell similar to that of car tires or asphalt. Oil residues containing PAHs are added to rubber and plastics as a softener or extender and may be found in rubber, plastics, lacquers,			
91-20-3	Naphthalene**						
85-01-8	Phenanthrene		and coatings. PAHs are often found in the outsoles of footwear and in printing pastes for screen prints. PAHs can be present as impurities in Carbon Black. They also may be formed from thermal decomposition of recycled materials during reprocessing. **Naphthalene: Dispersing agents for textile dyes may contain high residual naphthalene	All materials: AFPS GS 2019 or EN 17132:2019	0.2 ppm each		
129-00-0	Pyrene			or ISO 16190:2021			
56-55-3	Benzo(a)anthracene			concentrations due to the use of low-quality naphthalene derivatives (e.g., poor quality naphthalene sulphonate formaldehyde condensation products).			
50-32-8	Benzo(a)pyrene						
205-99-2	Benzo(b)fluoranthene						
192-97-2	Benzo[e]pyrene	1 ppm each Child care					
205-82-3	Benzo[j]fluoranthene	article: 0.5 ppm each					
207-08-9	Benzo(k)fluoranthene						
218-01-9	Chrysene						
53-70-3	Dibenzo(a,h)anthracene						
Quinoline							
91-22-5	Quinoline	50 ppm		Quinoline can be included with disperse dye testing, as the same method is used for both. Found as an impurity in polyester and some dyestuffs. It is not expected to be found in non-dyed materials	All materials: DIN 54231:2022 with methanol extraction at 70 degrees C	10 ppm	

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported	
Solvents / Residua	als					
68-12-2	Dimethylformamide (DMFa)	500 ppm	Solvent used in plastics, rubber, and polyurethane (PU) coating. Waterbased PU does not contain DMFa and is therefore preferable.			
75-12-7	Formamide		Byproduct in the production of EVA foams. Taiwan CNS 15493: BSMI may enforce a limit of 200 ppm in yoga mats under authority of the Consumer Protection Act.	Textiles: EN 17131:2019		
127-19-5	Dimethylacetamide (DMAC)	1000 ppm each	Solvent used in the production of elastane fibers and sometimes as substitute for DMFa.	All other materials: ISO 16189:2021	50 ppm each	
872-50-4	N-Methyl-2-pyrrolidone (NMP)		Industrial solvent used in production of water-based polyurethanes and other polymeric materials. May also be used as a surface treatment for textiles, resins, and metal-coated plastics, or as a paint stripper.			
UV Absorbers / St	UV Absorbers / Stabilizers					
3846-71-7	UV 320					
3896-11-5	UV326	1000 ppm each				
3864-99-1	UV 327		Used as UV absorbers for plastics (PVC, PET, PC, PA, ABS, PU and other polymers), coatings, resins,	ISO 24040:2022 with extraction in THF,		
36437-37-3	UV 350		rubber, and PU foam materials such as open cell foams for padding.	analysis by GC/MS	100 ppm each	
25973-55-1	UV 328	100 ppm				
2440-22-4	Drometrizole	For informational purposes only. lululemon recommends testing to assess content levels.				

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Volatile Organic Co	ompounds (VOCs)				
71-43-2	Benzene	5 ppm			
Various	Other: See Appendix IV for a complete list.	Total: 500 ppm	The VOCs listed in Appendix IV represent a broad range of potentially harmful substances that can be semiquantified using the prescribed headspace method. Detection of substances that are also listed in other substance groups with specific test methods and limit values may require further testing to asses product conformance These VOCs should not be used in textile auxiliary chemical preparations. They are associated with solvent–based processes such as solvent-based polyurethane coatings and glues/adhesives. They should not be used for any kind of facility cleaning or spot cleaning. Individual VOCs should be reported if found at levels greater than 100 ppm. Confirmation testing may be required, especially for substances that are also listed in other substance groups.	For general VOC screening: GC/MS headspace 45 minutes at 120 degrees C	Benzene: 5 ppm Other: 100 ppm each



									Poly	mers				Prints					
Substance	Natural Fibers	Synthetic Fibers	Blended Fibers (Natural & Syn- thetic)	Natural Leather	Natural Leather (Coated)	Synthetic Coated Fabrics	Coatings	EVA	PU foams	All Other Foams, Plastics, & Poly- mers	Rubber (Natural & Synthetic)	Inks & Paints	Screen Prints	Sublimation/ Digi- tal Prints	Heat Transfer Prints	Metal	Glue	Feathers & Down	Natural Materials
Acetophenone and 2-Phenyl-2-Propanol								✓											
Alkylphenols (APs) NP, OP					✓	✓	✓	\checkmark	√	\checkmark	\checkmark								
Alkylphenol Ethoxylates (APEOs) NPEO, OPEO	✓	✓	√	✓	✓	✓						√	✓	✓	\checkmark		✓	•	•
Azo-amines	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$						$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$				
Bisphenols	√9	\checkmark	√							\checkmark									
Brominated and Organophosphorus Substances	$\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$							$\sqrt{3}$	$\sqrt{3}$
Chlorinated Paraffins, SCCP (C10-C13) and MCCP (C14-C17)				✓	✓	\checkmark	✓	•	•	√	✓		•				•		
Chlorophenols (Tri-, Tetra-, and Pentachlorophenols)	•	•	•	•	•							✓	✓						
Chlorinated Benzenes and Toluenes		•	•																
Cyclosiloxanes	•	•	•							√8									
Dimethylfumarate (DMFu)				•															
Dyes, Forbidden and Disperse		$\sqrt{1}$	$\sqrt{1}$			$\sqrt{1}$						$\sqrt{1}$		$\sqrt{1}$					
Dyes, Navy Blue		_2	_2																
Formaldehyde	✓	✓	√	✓	✓	√	√				√		✓	√	✓		✓		
Heavy Metals, Chromium VI				✓	√														
Heavy Metals Total (Cd, Pb, Hg & As)					√	✓	√	√	√	√	√	✓	✓	√	✓	✓			
Heavy Metals, Nickel Release																✓			
Heavy Metals, Extractable	✓	√	√		•	✓	•									•			
N-Nitrosamines											√								
Organotin Compounds					√	✓	√		√	√	√	✓	√	√	✓		✓		
Ortho-phenylphenol (OPP)		•	•	•	•														
PFAS	√	√	√	✓	✓	√	✓					√	✓	✓	✓			√	\checkmark^4
Phthalates					✓	√	√	\checkmark	√	√	√		✓		✓		✓		
Polycyclic Aromatic Hydrocarbons (PAHs)					✓	\checkmark	✓	√	✓	√	√		✓						
Quinoline		•	•																
Solvents/Residuals – Dimethylformamide (DMFa)					√5	$\sqrt{5}$	$\sqrt{5}$		✓	√ ⁵							$\sqrt{5}$		
Solvents/Residuals - DMAC and NMP					✓	√	✓		•	•									
Solvents/Residuals – Formamide								✓											
Styrene Monomer										√6	√ ⁷								
UV-Absorbers								•	•	•	•								
Volatile Organic Compounds (VOCs)					✓	√	✓	•	•	•	•	•	✓	•			√		

Remarks:

√ = Core testing (compliance must be verified by test report)

1 = Test if dyed/coloured material (non-white) • = Suppplemental testing (Iululemon may ask for testing)

2 = Test if blue coloured

3 = Test if treated with flame retardant finish 5 = Test if PU-based material 4 = Test if straw

6 = Test if styrene-based plastic

7 = Test if styrene-butadiene rubber 8 = Test if silicone polymer

9 = Test if wool or cashmere



Introduction

lululemon creates products and experiences that reflect the values of our guests and our aspirations for a healthier world. This philosophy extends to the packaging we use to bring our products to market.

Packaging RSL requirements support lululemon's Be Planet initiatives, complies with global packaging regulations, and minimizes the potential for packaging materials to contaminate product. This section outlines, sets, and specifies testing guidelines, methods, and limits for packaging.

Scope

Packaging materials covered by this RSL include product packaging, and packaging utilized by lululemon retail or e-commerce channels.



Test Methods and Limits

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported				
Alkylphenols (APs) Alkylphenol Ethoxylates (APEOs)									
Various	Nonylphenol (NP), mixed isomers	Total: 100ppm	APEOS are used as surfactants in the production of plastics, elastomers, paper, and textiles. These chemicals can be found in many processes involving foaming, emulsification, solubi- lization, or dispersion. APEOs can be used in paper pulping, lubrication oils, and plastic polymer stabilization. APs are used as intermediaries in the manufacture of APEOs and antioxidants used to protect or stabilize polymers. Bio-degradation of APEOs into APs is the main source of APs in the environment. APEOs and formulations containing APEOs are prohibited from use throughout supply chain and manufacturing processes. We acknowledge that residual or trace concentrations of APEOs may still be found at levels exceeding 100 ppm and that more time is necessary for the supply chain to phase them out completely.	Textiles and Leather: EN ISO 21084:2019 Polymers and all other materials: 1 g sample/20 mL THF, sonication for 60 minutes at 70 degrees C, analysis according to EN ISO 21084:2019	Total of NP & OP: 10 ppm				
Various	Octylphenol (OP), mixed isomers								
Various	Nonylphenol ethoxylates (NPEOs)	Total: 100 ppm		All materials except Leather: EN ISO 18254-1:2016 with determination of APEO using LC/ MS or LC/MS/ MS Leather: Sample prep and Analysis using EN ISO 18218-1:2023 with quantification according to EN ISO 18254-1:2016	Total of NPEO & OPEO: 20 ppm				
Various	Octylphenol ethoxylates (OPEOs)								

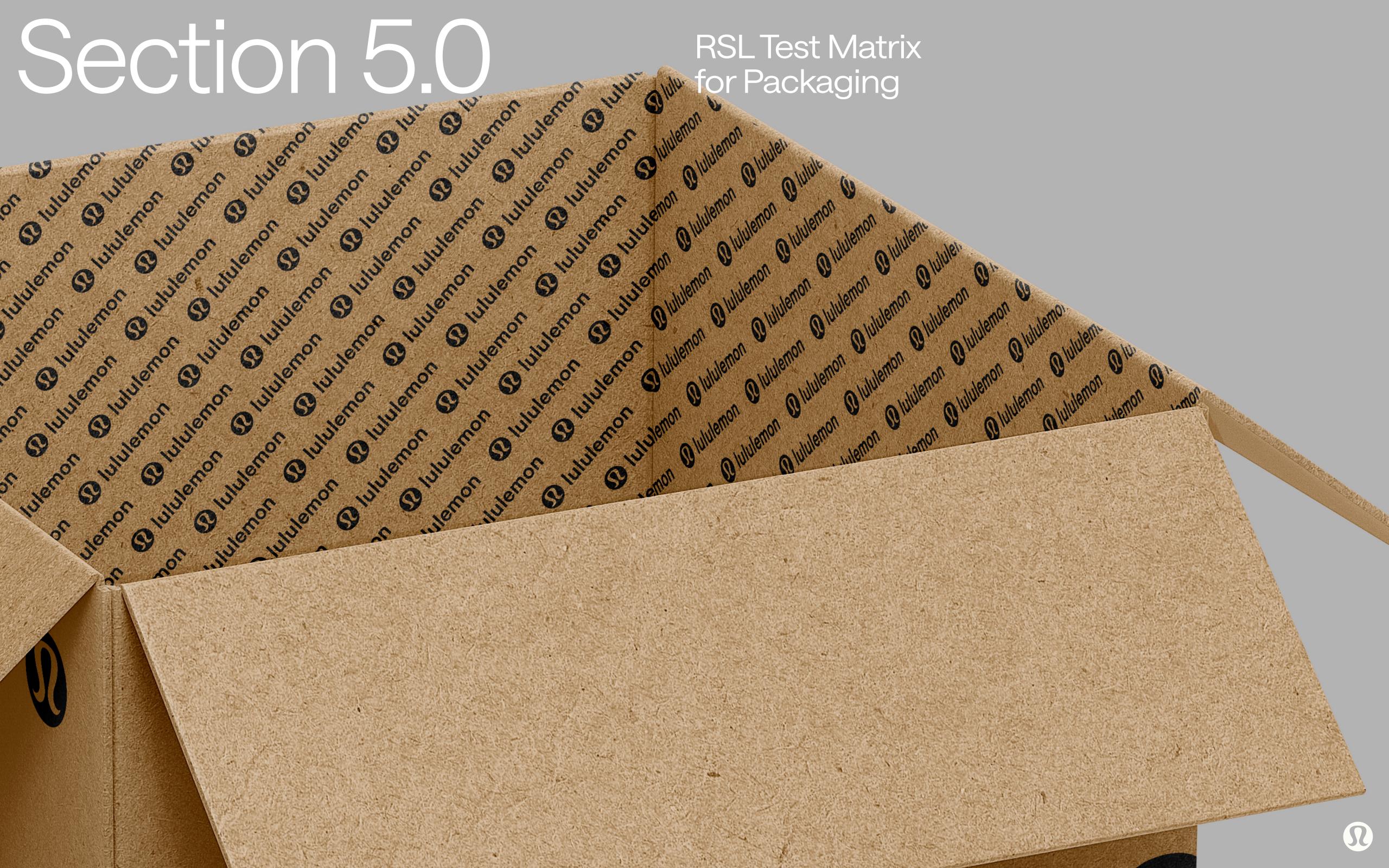
CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported				
Azo-amines and Arylamine Salts									
92-67-1	4-Aminobiphenyl		Azo dyes and pigments are colourants that incorporate one or several azo groups (-N=N-) bound with aromatic compounds. Thousands of azo dyes exist, but only those which degrade to form the listed cleavable amines are restricted. Azo dyes that release these amines are regulated and should no longer be used for dyeing textiles.	All materials except Leather: EN ISO 14362-1:2017 Leather: EN ISO 17234-1:2024 p-Aminoazobenzene: All materials except Leather: EN ISO 14362-3:2017 Leather: EN ISO 17234-2:2011	5 ppm each				
92-87-5	Benzidine								
95-69-2	4-Chloro-o-toluidine								
91-59-8	2-Naphthylamine								
97-56-3	o-Aminoazotoluene								
99-55-8	2-Amino-4-nitrotoluene								
106-47-8	p-Chloraniline								
615-05-4	2,4-Diaminoanisole								
101-77-9	4,4'-Diaminodiphenylmethane								
91-94-1	3,3'-Dichlorobenzidine								
119-90-4	3,3'-Dimethoxybenzidine								
119-93-7	3,3'-Dimethylbenzidine								
838-88-0	3,3'-dimethyl-4,4'-diaminodiphenylmethane								
120-71-8	p-Cresidine								
101-14-4	4,4'-Methylen-bis(2-chloraniline)	20 ppm each							
101-80-4	4,4'-Oxydianiline								
139-65-1	4,4'-Thiodianiline								
95-53-4	o-Toluidine								
95-80-7	2,4-Toluylendiamine								
137-17-7	2,4,5-Trimethylaniline								
95-68-1	2,4 Xylidine								
87-62-7	2,6 Xylidine								
90-04-0	2-Methoxyaniline (= o-Anisidine)								
60-09-3	p-Aminoazobenzene								
3165-93-3	4-Chloro-o-toluidinium chloride								
553-00-4	2-Naphthylammoniumacetate								
39156-41-7	4-Methoxy-m-phenylene diammonium sulphate								
21436-97-5	2,4,5-Trimethylaniline hydrochloride								

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Bisphenols					
80-05-7	Bisphenol-A (BPA)	10 ppm	Used in the production of epoxy resins, polycarbonate plastics, flame retardants, PVC, and thermal	All other materials:	
80-09-1	Bisphenol-S (BPS)		receipt paper.	Extraction: 1g sample/20 ml THF, sonication for 60 minutes at 60° C, then add methanol or acetonitrile for precipitation prior to analysis with LC/MS	All other materials: 0.1 ppm for individual samples
77-40-7	Bisphenol-B (BPB)	200 ppm each	May be found in recycled polymeric and paper materials due to polycarbon- ate plastic and thermal receipt paper made with bisphenols entering waste streams.	Note for textiles: For precipitation, draw the extract to another container and add methanol or acetonitrile. Inaccurate higher results will be obtained if the textile	1 ppm for composite samples
620-92-8	Bisphenol-F (BPF)		BPA and BPS are prohibited from use in receipt paper.	sample contacts the precipitation solvent	
Butylated Hydroxytoluene (B	НТ)				
128-37-0	Dibutylhydroxytoluene (BHT)	25 ppm	Used as an additive in plastics as an antioxidant to prevent aging. Can cause phenolic yellowing of textiles.	All materials: ASTM D4275:2017	5 ppm
Dimethylfumarate (DMFu)					
624-49-7	Dimethylfumarate (DMFu)	0.1 ppm	DMFu is an anti-mold agent used in sachets in packaging to prevent the build-up of mold, especially during shipping.	All materials: CEN ISO/TS 16186:2021	0.05 ppm
Formaldehyde					
50-00-0	Formaldehyde	150 ppm	Formaldehyde can be found in polymeric resins, binders, and fixing agents for dyes and pigments, including those with fluorescent effects. It is also used as a catalyst in certain printing, adhesives, and heat transfers. Formaldehyde can be used in antimicrobial applications for odor control. Formaldehyde found in packaging can off-gas directly onto product.	Paper: DIN EN 645:1994 and EN 1541:2001 Textiles, Finishings, Dyes, Inks & Coatings: JIS L 1041-2011 A (Japan Law 112) or EN ISO 14184-1:2011 Leather: EN ISO 17226-2:2019 with EN ISO 17226-1:2019 confirmation method in case of interferences. Alternatively, EN ISO 17226-1:2019 can be used on its own. Adhesive: ISO 14184-1:2011	16 ppm
Heavy Metals					
7440-43-9	Cadmium (Cd)		Cadmium compounds are used as pigments (especially in red, orange, yellow, and green) and in paints. It can also be used as a stabilizer for PVC.	All materials: Total beauty matels (Cd. Cr. Db. 9. Ha): EN	5 ppm
7439-92-1	Lead (Pb)		May be associated with plastics, paints, inks, pigments, and surface coatings.	All materials: Total heavy metals (Cd, Cr, Pb & Hg): EN ISO 16711-1. If the total of four heavy metals exceeds 100 ppm and Cr contributes to the sum, test for Cr VI.	10 ppm
7439-97-6	Mercury (Hg)		Mercury compounds can be present in pesticides and as contaminants in caustic soda (NaOH). They may also be used in paints.		5 ppm
18540-29-9	Chromium VI	Total: 100 ppm	Though typically associated with leather tanning, Chromium VI also may be used in pigments, chrome plating of metals, and wood preservatives.	Metal: IEC 62321-7-1:2015 The testing laboratory will convert the test result into ppm. Natural Leather and Natural Materials: EN ISO 17075-1:2017 and EN ISO 17075-2:2017 for confirmation in case the extract causes interference. Alternatively, EN ISO 17075-2:2017 may be used on its own. All other materials: IEC 62321-7-2:2015	3 ppm

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported		
Organotin Compo	Organotin Compounds						
Various	Dibutyltin (DBT)						
Various	Dioctyltin (DOT)						
Various	Monobutyltin (MBT)		Class of shaminals combining tip and organics such as				
Various	Tricyclohexyltin (TCyHT)	1 ppm each	Class of chemicals combining tin and organics such as butyl and phenyl groups.				
Various	Trimethyltin (TMT)		Organotins are predominantly found in the environment as antifoulants in marine paints, but they can also be used as	All materials:	01		
Various	Trioctyltin (TOT)		biocides (e.g., antibacterials), catalysts in plastic and glue production, and heat stabilizers in plastics/rubber.	CEN ISO/TS 16179:2012 or EN ISO 22744-1:2020	0.1 ppm each		
Various	Tripropyltin (TPT)		In textiles and apparel, organotins are associated with plastics/rubber, inks, paints, metallic glitter, polyurethane				
Various	Tributyltin (TBT)		products, and heat transfer material.				
Various	Triphenyltin (TPhT)	0.5 ppm each					
Per- and Polyfluor	oalkyl Substances (PFAS)						
Various	All PFAS as measured by Total Organic Fluorine	50 ppm		EN 14582:2016 or ASTM D7359:2023	20 ppm total		
Various	Perfluorooctane Sulfonate (PFOS) and its salts	25 ppb total			25 ppb total		
Various	PFOS - related substances	1000 ppb total	Regulations around the world ban the use of PFAS in apparel/footwear with partial or full exemptions for		1000 ppb total		
Various	Perfluorooctanoic Acid (PFOA) and its salts	25 ppb total	personal protective equipment and outdoor apparel for severe wet conditions.		25 ppb total		
Various	PFOA-related substances	1000 ppb total			1000 ppb total		
Various	Perfluorohexane-1-sulphonic acid (PFHxS) and its salts	25 ppb total	PFAS may be used in commercial water-, oil-, and stain-repellent agents as well as breathable membranes that		25 ppb total		
Various	PFHxS-related substances	1000 ppb total	Refer to Appendix III for a list of PFAS substances and CAS Numbers that can be tested to indicate whether PFAS	All materials: EN 17681-1:2025	1000 ppb total		
Various	C9-C14 Perfluorocarboxylic acids (PFCAs) and their salts	25 ppb total	chemistry is present above restricted levels due to intended use or unintended contamination. An update to AFIRM's PFAS Chemical Information Sheet will include guidance for phasing out the entire class of		25 ppb total		
Various	C9-C14 PFCAs-related substances	260 ppb total	PFAS with a recommended testing approach to ensure compliance with all global regulations using the methods included in this section.		260 ppb total		
Various	Other Perfluoroalkyl Carboxylic Acids (PFCA)	No Formal Limit Data Report			100 ppb total		

CAS No.	Substance	Limits Raw Materials and Finished Product	Potential Uses and Additional Information	Suitable Test Method Sample Preparation and Measurement	Reporting Limits Limits above which test results should be reported
Phthalates					
28553-12-0	Di-Iso-nonylphthalate (DINP)				
117-84-0	Di-n-octylphthalate (DNOP)				
117-81-7	Di(2-ethylhexyl)-phthalate (DEHP)				
26761-40-0	Diisodecylphthalate (DIDP)				
85-68-7	Butylbenzylphthalate (BBP)				
84-74-2	Dibutylphthalate (DBP)				
84-69-5	Diisobutylphthalate (DIBP)				
84-75-3	Di-n-hexylphthalate (DnHP)			All materials: CPSC-CH-C1001-09.4, analysis by GC/ MS	
84-66-2	Diethylphthalate (DEP)				
131-11-3	Dimethylphthalate (DMP)		• riexible plastic packaging		
131-18-0	Di-n-pentyl phthalate (DPENP)				
84-61-7	Dicyclohexyl phthalate (DCHP)				
71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8- branched alkylesters, C7-rich	500			
117-82-8	Bis(2-methoxyethyl) phthalate	500 ppm each Total: 1000 ppm			50 ppm each
605-50-5	Diisopentyl phthalate (DIPP)				
131-16-8	Dipropyl phthalate (DPRP)				
27554-26-3	Diisooctyl phthalate (DIOP)				
68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear				
71850-09-4	Diisohexyl phthalate (DIHxP)				
68515-42-4	1,2-Benzenedicarboxylic acid, di- C7-11- branched and linear alkyl esters (DHNUP)				
84777-06-0	1,2-Benzenedicarboxylic acid Dipentyl ester, branched and linear				
68648-93-1	1,2-Benzenedicarboxylic acid, di-C6- 10-alkyl esters or mixed decyl and hexyl				
68515-51-5	and octyl diesters with ≥ 0.3% of dihexyl phthalate; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyldiesters; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters				
776297-69-9	n-Pentyl-isopentylphthalate (nPIPP)				





Section 5.0 RSL Test Matrix for Packaging

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Substances	Paper	Plastic, Foam, and Wrap	Finishes, Dyes, Inks, and Coatings	Metal	Textiles	Adhesives	Other Items
Alkylphenols (APs) and Alkylphenol Ethoxylates (APEOs)			✓			\	
Azo-amines					√ ¹		
Bisphenols	✓				\checkmark^2		
Butylhydroxytoluene (BHT)		$\sqrt{3}$					
Dimethylfumarate (DMFu)							√ ⁴
Formaldehyde	✓		✓			✓	
Heavy Metals Total (Cr VI, Cd, Pb & Hg)	✓	√	✓	√	√		
Organotin Compounds		√	✓			✓	
PFAS	√ ⁵	✓ ⁵	√ ⁵		√ ⁵		
Phthalates		✓	✓			✓	

Remarks:

√ = Core testing (compliance must be verified by test report)

3 = Test if polybag

1 = Test if dyed/coloured material (non-white)

4 = Test if dessiccant sachets are used to control moisture/mold

2 = Test if synthetic or blended fiber

5 = Test if the material is treated with water, oil, or stain repellent finished



Better Chemistry

There are many resources available to assess, find, and select better chemical alternatives. The resources listed below are publicly available. Additional information can be accessed by clicking on the resource heading.

Vendors should always confirm with the chemical supplier that their chemical products will meet lululemon's RSL Standards.

AFIRM Publications

The AFIRM Group makes available several publications that support the continuous advancement of chemical management and best practices for the apparel and footwear industry. These publications include:

- Chemical information sheets that discuss the likely sources of restricted substances, the reasons for their restriction, and information about safer alternatives
- Chemistry Toolkit that provides an overview of an RSL management program and the implementation of its requirements throughout a brand's supply chain
- Training videos that discuss various aspects of RSL testing

Zero Discharge of Hazardous Chemicals (ZDHC) Manufacturing Restricted Substances List (MRSL)

To support creating RSL compliant materials and products, the chemistry used for producing such materials or products should be in conformance with the ZDHC MRSL. Sourcing ZDHC MRSL conformant chemical products is also one of the requirements for vendors that is defined in the lululemon Vendor Environmental Manual (see Global Family Portal).

ZDHC Gateway - Chemical Module:

The ZDHC Gateway - Chemical Module is an online platform lists chemicals conforming to the ZDHC MRSL. Chemical products in the Gateway can achieve three different conformance levels. The higher the level, the more information is available for that chemical product and how it is made, and the more confidence you can have that it would consistently be free from substances listed in the ZDHC MRSL. lululemon recommends to source chemical products at a minimum of level 1, while working towards level 3.

bluesign® FINDER:

The bluesign FINDER is a free-of-charge web-based, advanced search engine containing bluesign APPROVED chemical products that meet the bluesign CRITERIA and, therefore, the highest level of chemical product verification. All grey and blue products in the bluesign FINDER meet a ZDHC MRSL conformance level 3 and can be found on the ZDHC Gateway as well.

bluesign® GUIDE:

The bluesign GUIDE is a comprehensive, public database containing bluesign APPROVED fabrics, accessories and trims.

ECO PASSPORT by OEKO-TEX®:

ECO PASSPORT by OEKO-TEX. is an independent certification for chemicals, colourants, and accessories used in the manufacturing of textiles and leather articles. ECO PASSPORT certified chemical products can achieve ZDHC conformance levels 1, 2 or 3 depending on the certification process. They can be found in the ZDHC Gateway—Chemical Module or in the OEKO-TEX. Buying Guide.

Chemical Management System

Establishing a chemical management system (CMS) supports vendors in producing RSL compliant products. A properly implemented CMS is designed to improve the safe handling, storage, and disposal of chemicals. It will also facilitate better communication of hazards where needed, reduce worker and environmental exposure to hazardous chemicals, and improve compliance with requirements and regulations. Through the setting of objectives and targets, a CMS will drive continuous improvement and help vendors minimize their environmental impact.

ZDHC CMS - Framework:

This document lists the minimum requirements for a CMS. It should be easily understood while accommodating the complexities of the ZDHC Program and the supply chain chemistry applications. The ZDHC CMS Framework builds on applicable tools available within the ZDHC and on management standards and other applicable frameworks available within and beyond the industry.

ZDHC CMS - Technical Industry Guide:

The ZDHC Technical Industry Guide provides guidelines for implementation of the CMS Framework and best practices.

Higg Facilities Environmental Module:

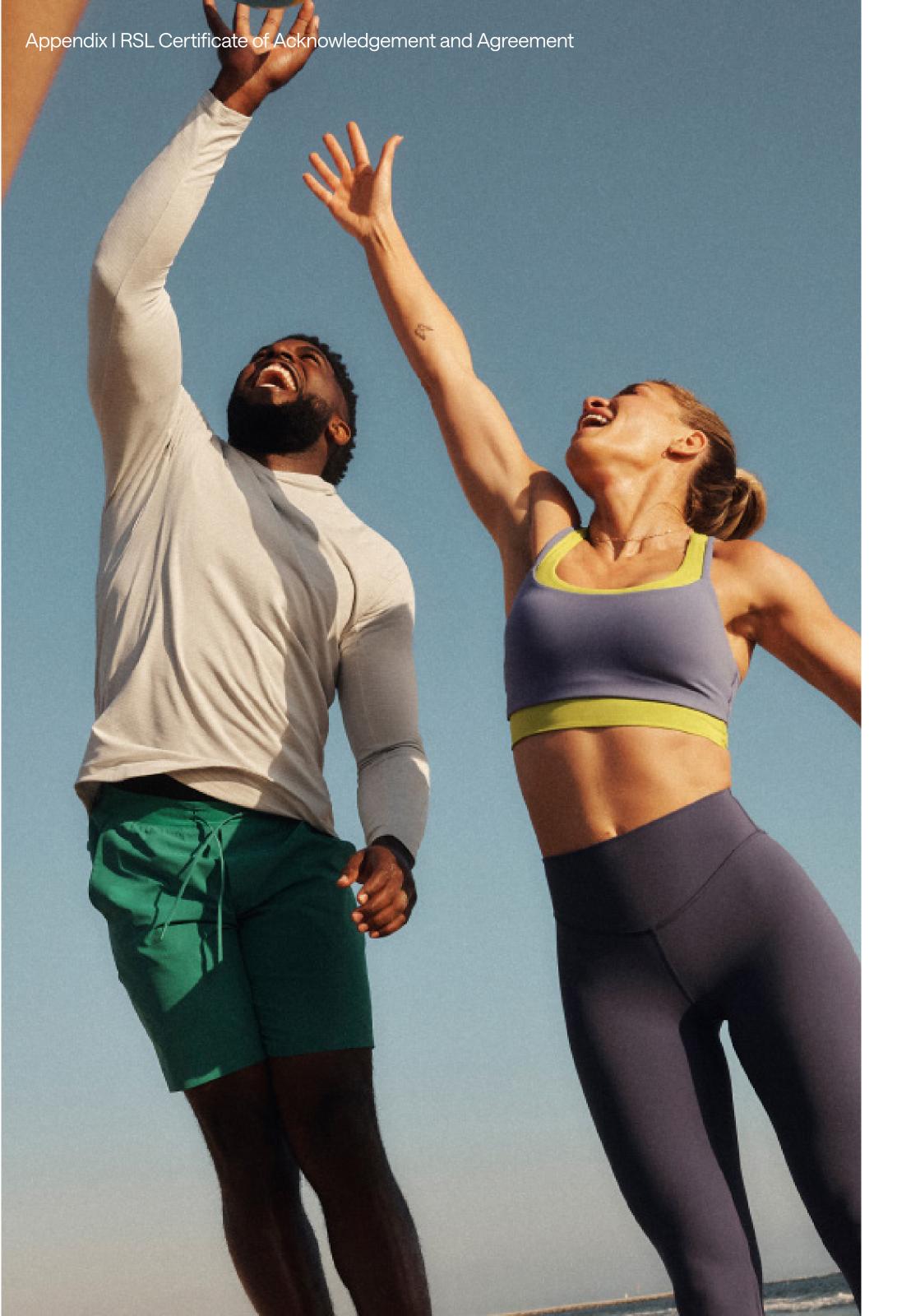
The Higg Facilities Environmental Module (Higg FEM) from the Sustainable Apparel Coalition is a sustainability assessment tool that standardizes how facilities measure and evaluate their environmental performance. Iululemon encourages facilities to use the Higg FEM to self-assess their environmental management practices and set strategies and goals for further improvement.



For any queries regarding Iululemon's RSL contact our **Guest Education Centre**







To: lululemon athletica inc. ("lululemon")

Vendor: _		
Address:		_
the most (rsigned, a duly appointed officer of the Vendor, hereby acknowled current version of the Restricted Substances List ("the RSL") and a le for compliance with the RSL.	9

We, the Vendor, certify that all products and every component thereof produced and shipped to lululemon will comply with the RSL as well as with all applicable laws, codes, rules, and regulations including laws relating to occupational health and safety, waste management, and the environment, all as may be amended from time to time.

We further agree that if any product is found that does not comply with the RSL we (a) will not be paid for the order, (b) will be liable for fines, fees, and all other liabilities related thereto, and (c) may lose the right to continue to do business with lululemon.

Vendor hereby agrees to indemnify, defend, and hold harmless lululemon, its affiliates, and each of their officers, directors, employees, agents, and successors, and assigns from and against any and all claims, liabilities, injuries, losses, damages, and expenses, including reasonable attorney's fees and costs, caused by or relating to Vendor's failure to comply with the RSL.

We confirm and certify that we have received, read, fully understand, and will comply with the RSL.

Certified this day of	, 20
Name:	_ Title:
Signature:	
(Vice President or above)	



Pesticides, Agricultural

CAS No.	Pesticide Name
93-72-1	2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds; 2,4,5-TP
93-76-5	2,4,5-T
94-75-7	2,4-D
309-00-2	Aldrine
86-50-0	Azinophosmethyl
2642-71-9	Azinophosethyl
4824-78-6	Bromophos-ethyl
2425-06-1	Captafol
63-25-2	Carbaryl
510-15-6	Chlorbenzilat
57-74-9	Chlordane
6164-98-3	Chlordimeform
470-90-6	Chlorfenvinphos
1897-45-6	Chlorthalonil
56-72-4	Coumaphos
68359-37-5	Cyfluthrin
91465-08-6	Cyhalothrin
52315-07-8	Cypermethrin
52918-63-5	Deltamethrin
53-19-0	DDD
72-54-8	
3424-82-6	DDE
72-55-9	
50-29-3	DDT
789-02-6	
333-41-5	Diazinone
1085-98-9	Dichlofluanid

CAS No.	Pesticide Name
78-48-8	S,S,S-Tributyl phosphorotrithioate (Tribufos)
120-36-5	Dichloroprop
115-32-2	Dicofol
141-66-2	Dicrotophos
60-57-1	Dieldrine
60-51-5	Dimethoate
88-85-7	Dinoseb, its salts and acetate
63405-99-2	DTTB (4, 6-Dichloro-7 (2,4,5-trichloro-phenoxy)-2-Trifluoro methyl benz imidazole)
115-29-7	Endosulfan
959-98-8	Endosulfan I (alpha)
33213-65-9	Endosulfan II (beta)
72-20-8	Endrine
66230-04-4	Esfenvalerate
106-93-4	Ethylendibromid
56-38-2	Ethylparathione; Parathion
51630-58-1	Fenvalerate
Various	Halogenated naphthalenes, including polychlorinated naphthalenes (PCNs)
76-44-8	Heptachlor
1024-57-3	Heptachloroepoxide
36355-01-8	Hexabromobiphenyl
319-84-6	a-Hexachlorocyclohexane with and without Lindane
319-85-7	b-Hexachlorocyclohexane with and without Lindane
319-86-8	g-Hexachlorocyclohexane with and without Lindane

CAS No.	Pesticide Name	
118-74-1	Hexachlorobenzene	
465-73-6	Isodrine	
4234-79-1	Kelevane	
143-50-0	Kepone	
58-89-9	Lindane	
121-75-5	Malathione	
94-74-6	MCPA	
94-81-5	МСРВ	
93-65-2	Mecoprop	
10265-92-6	Metamidophos	
72-43-5	Methoxychlor	
2385-85-5	Mirex	
6923-22-4	Monocrotophos	
298-00-0	Parathion-methyl	
1825-21-4	Pentachloroanisole	
7786-34-7	Phosdrin/Mevinphos	
72-56-0	Perthane	
31218-83-4	Propethamphos	
41198-08-7	Profenophos	
13593-03-8	Quinalphos	
82-68-8	Quintozene	
8001-50-1	Strobane	
297-78-9	Telodrine	
8001-35-2	Toxaphene	
731-27-1	Tolylfluanide	
1582-09-8	Trifluraline	



CAS No.	PFAS Name	CAS No.	PFAS Name
	PFOS and Related Substances		PFHxS-related Substances
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	68259-15-4	N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)
2795-39-3	Perfluorooctanesulfonic acid, potassium salt (PFOS-K)	41997-13-1	Perfluorohexane sulfonamide (PFHxSA)
29457-72-5	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)		C9-C14 PFCAs and Capital on their and salts
29081-56-9	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH4)	375-95-1	Perfluorononanoic Acid (PFNA, C9-PFCA)
70225-14-8	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)2)	335-76-2	Perfluorodecanoic Acid (PFDA, C10-PFCA)
56773-42-3	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C2H5)4)	2058-94-8	Perfluoroundecanoic Acid (PFUnA, C11-PFCA)
251099-16-8	Didecyldimethyl ammonium perfluorooctane sulfonate (PFOS-N(C10H21)2(CH3)2)	307-55-1	Perfluorododecanoic Acid (PFDoA, C12-PFCA)
	PFOS-related Substances	72629-94-8	Perfluorotridecanoic Acid (PFTrDA, C13-PFCA)
4151-50-2	N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	376-06-7	Perfluorotetradecanoic Acid (PFTeDA, C14-PFCA)
31506-32-8	N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	172155-07-6	Perfluoro-3-7-dimethyloctanecarboxylate (PF-3,7-DMOA)
1691-99-2	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	21049-39-8	PFNA-Na
24448-09-7	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	4149-60-4	APFN
307-35-7	Perfluoro-1-octanesulfonyl fluoride (POSF)	3830-45-3	PFDA-Na
754-91-6	Perfluorooctane sulfonamide (PFOSA)	3108-42-7	APFDA
4021-47-0	Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	3793-74-6	PFDoA-NH4
	PFOA and Its Salts		C9-C14 PFCA-related Substances
335-67-1	Perfluorooctanoic acid (PFOA)	17741-60-5	1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)
335-95-5	Sodium perfluorooctanoate (PFOA-Na)	2144-54-9	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)
2395-00-8	Potassium perfluorooctanoate (PFOA-K)	865-86-1	1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)
335-93-3	Silver perfluorooctanoate (PFOA-Ag)	34598-33-9	2H,2H,3H,3H-Perufloroundecanoic acid (H4PFUnA)
335-66-0	Perfluorooctanoyl fluoride (PFOA-F)	678-39-7	Perfluorocylethanol 8:2 (8:2 FTOH)
3825-26-1	Ammonium pentadecafluorooctanoate (APFO)	39239-77-5	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)
	PFOA-related Substances	120226-60-0	1H,1H,2H,2H-Perfluorododecanesulphonic acid (10:2 FTS)
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	2043-54-1	1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)
376-27-2	Methyl perfluorooctanoate (Me-PFOA)	30046-31-2	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)
3108-24-5	Ethyl perfluorooctanoate (Et-PFOA)	335-77-3	Perfluorodecane sulfonic Acid (PFDS)
678-39-7	2-Perfluorooctylethanol (8:2 FTOH)	2806-15-7	PFDS-Na
27905-45-9	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	2806-16-8	PFDS-K
1996-88-9	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	67906-42-7	PFDS-NH4
27854-31-5	2H,2H-Perfluorodecanoic acid (H2PFDA)	2043-53-0	1-lodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)
507-63-1	Perfluoro-1-iodooctane (PFOI)	101947-16-4	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC2H5)3)
882489-14-7	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C4H9)4)		Other Perfluoroalkyl Carboxylic Acids (PFCAs)
	PFHxS and its Salts	307-24-4	Perfluorohexanoic Acid (PFHxA, C6-PFCA)
355-46-4	Perfluorohexane Sulfonic acid (PFHxS)		PFHxA and its Salts
3871-99-6	Perfluorohexane Sulfonic acid, potassium salt (PFHxS-K)	307-24-4	Perfluorohexanoic Acid (PFHxA, C6-PFCA)
55120-77-9	Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)		PFHxA-related Substances
68259-08-5	Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH4)	27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)
82382-12-5	Perfluorohexane Sulfonic acid, sodium salt (PFHxS-Na)	647-42-7	1H,1H,2H,2H-Perfluorooctanol (6:2 FTOH)
		17527-29-6	1H,1H,2H,2H-Perfluorooctyl acrelate (6:2 FTA)
		2144-53-8	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)



Existing VOC's	
CAS No.	Substance
75-15-0	Carbon Disulfide
56-23-5	Carbon Tetrachloride
67-66-3	Chloroform
108-94-1	Cyclohexanone
107-06-2	1,2-Dichloroethane
75-35-4	1,1-Dichloroethylene
100-41-4	Ethylbenzene
76-01-7	Pentachloroethane
630-20-6	1,1,1,2- Tetrachloroethane
79-34-5	1,1,2,2- Tetrachloroethane
127-18-4	Tetrachloroethylene (PERC)
108-88-3	Toluene
71-55-6	1,1,1- Trichloroethane
79-00-5	1,1,2- Trichloroethane
79-01-6	Trichloroethylene
1330-20-7	
108-38-3	Yulongs (mota_ ortho_ para)
95-47-6	Xylenes (meta-, ortho-, para-)
106-42-3	

VOCs Listed in Other Substance Groups	
CAS No.	Substance
95-50-1	1,2-Dichlorobenzene
106-46-7	1,4-Dichlorobenzene
872-50-4	1-Methyl-2-pyrrolidione
617-94-7	2-phenyl-2-propanol
98-86-2	Acetophenone
75-12-7	Formamide
127-19-5	N,N-Dimethylacetamide (DMAC)
91-20-3	Naphthalene
68-12-2	N-N-Dimethylformamide (DMFa)
100-42-5	Styrene

New VOC's	
CAS No.	Substance
96-18-4	1,2,3-trichloropropane
78-87-5	1,2,Dichloropropane
111-15-9	2-Ethoxyethyl acetate
149-57-5	2-Ethylhexane acid
62-53-3	Aniline
111-96-6	Bis(2-methoxyethyl)ether
78-59-1	Isophorone
108-95-2	Phenol
109-99-9	Tetrahydrofuran (THF)
106-94-5	1-bromopropane
70657-70-4	1-PG2MEA 1-Propanol,2-methoxy-, acetate)
111-77-3	2-(2-Methoxyethoxy)ethanol
584-84-9	2,4-toluene diisocyanate
110-80-5	2-ethoxyethanol
109-86-4	2-Methoxyethanol
1589-47-5	2-Methoxypropan-1-o
110-71-4	Ethylene glycol dimethyl ether (EGDME)
110-49-6	Ethylene glycol monomethyl ether acetate (EGMEA)
67-72-1	Hexachloroethane
75-09-2	Methylene chloride (dichloromethane)
110-54-3	n-hexane
112-49-2	Triethylene glycol dimethyl ether (TEGDME)

