Pentland Brands Ltd



Restricted Substances List (RSL) 2023



Always visit https://pentlandbrands.com/reports-and-resources// to verify that you have the most recent version of the Restricted Substances List. The online version of this document is the official version.



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About Pentland Brands Ltd

Pentland Brands Limited, a Pentland Group plc owned company, is a global family business bringing some of the most loved active and footwear brands to millions of people around the world.

We own Speedo, Berghaus, Canterbury of New Zealand, Endura, Mitre, Ellesse, Boxfresh, SeaVees, KangaROOS and Red or Dead. We're the global licensee for Kickers in the UK and Ireland, and have a joint venture partnership for Lacoste Chaussures.

Pentland Brands requires that its products, and the raw materials used to construct those products, are manufactured with regard for the safety of consumers and factory workers, and with consideration for the wider environment. This Restricted Substances List (RSL) provides details of chemicals and other potentially harmful substances that are restricted by Pentland Brands, and allowable chemical limits for products placed on the market.

Pentland Brands RSL applies to all materials, components and finished products manufactured and sold under the name of any of the Pentland Brands family of brands, whether sourced directly or by brands' licensee partners, unless communicated otherwise in writing.

All materials, components and finished products manufactured for Pentland Brands must comply with the requirements in this document no later than 90 days after the release date, and must also comply with all applicable legislation.

Alignment with the AFIRM RSL

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The Apparel and Footwear International RSL Management (AFIRM) Group, is an apparel and footwear industry body whose aim is to reduce the use and impact of harmful substances in apparel and footwear supply chains.

One of its areas of focus, is to create an industry-wide RSL to provide an aligned approach to managing restricted substances across the largely shared global supply chains of member brands.

Based on the collaborative effort of more than 20 brands, the AFIRM RSL reduces the large number of complicated and sometimes contradictory brand RSLs, while simplifying the approach and accelerating efforts to reduce chemical hazards.

Pentland Brands has aligned with the AFIRM RSL (with some additions and modifications seen opposite) and suppliers should ensure that all components in Pentland Brands' products are compliant.

The AFIRM RSL is available at: https://afirm-group.com/afirm-rsl/

AFIRM RSL – Pentland Brands modifications

- Solvents: To enable us to understand the presence of DMFa in our supply chain: all results above 100ppm in mock leather must be reported. All results above 50ppm in other end uses must be reported
- VOCs: All results above 20ppm must be reported so that Pentland Brands can map solvent usage in the supply chain. Legal compliance [e.g., SVHCs] also required.
- PAH: Any results for naphthalene over
 2ppm must be reported to Pentland.

AFIRM RSL – Pentland Brands additions Additions are included for substances not listed on the AFIRM RSL that are restricted by Pentland Brands; see page 6 for more details:

- Isocyanates
- Antimicrobial guidance
- Substances listed as SVHCs under REACH



Packaging

Pentland Brands has adopted the AFIRM Packaging RSL and suppliers should ensure that packaging for all Pentland Brands' products are compliant.

The AFIRM Packaging RSL is available at: https://www.afirm-

group.com/packaging-restrictedsubstance-list/

Table 1: Pentland Brands requirements additional to the AFIRM RSL

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CAS No.	Substance	Limits Raw material and finished product	Potential uses Textile processing for apparel and footwear	Suitable test method Sample preparation and measurement	Pentland modification
Isocyanates					
multiple	Diphenylmethane diisocyanate (MDI)				
822-06-0	Hexamethylene diisocyanate (HDI)		Isocyanates are the building blocks for polyurethane		
4098-71-9	Isophorone diisocyanate (IPDI)	1 nom frag	and under normal circumstances they are fully	Free- HPLC Blocked: GC-	
2778-42-9	Tetramethylxylene diisocyanate (TMXDI)	Raw material and finished product 1 ppm free Blocked – monitor levels taining anti-microbials is n	reacted to leave no residues in PU materials. Isocyanates are present in some adhesive	MS with injector block temperature at 300 $^{\circ}$ C;	
584-84-9 and 91-08-7	Toluene diisocyanate (TDI)	levels	formulations and if the adhesives are not formulated or cured properly then failures can occur.	confirmation at 180 $^{\circ}$ C	
3173-72-6	Napthylene-1,5,di-isocyanate (1,5- NDI)				
Anti-microbia	ls				
The use of anti	-microbial finishes or components conta	ining anti-microbials is	not permitted unless agreed in writing. See Other guideli	ines and policies section for more	e details.
Substances o	f Very High Concern (SVHC)				
The use of any	chemicals listed as an SVHC under RE	ACH legislation is not	permitted unless agreed in writing. The list of SVHCs can	be found here: https://echa.euro	pa.eu/candidate-list-table

must be understood that the list is subject to change and some SVHCs may become the subject of authorisation requirements or more stringent legislation.



Table 2: Age ranges for interpreting RSL limits

Various countries define the terms "babies," "children," and "adults" differently. 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

Table 3: Agricultural pesticides detailed list

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CAS No.	Pesticide name	CAS No.	Pesticide name
93-72-1	2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds	51630-58-1	Fenvalerate
93-76-5	2,4,5-T	1336-36-3	
93-72-1	2,4,5-TP	53469-21-9	Halogenated biphenyls, including Polychlorinatedbiphenyl (PCB)
94-75-7	2,4-D	Various	
309-00-2	Aldrine	Various	Halogenated terphenols, including polychlorinated terphenyl (PCT)
86-50-0	Azinophosmethyl	Mariaua	Halogenated naphthalenes, including polychlorinated naphthalenes
2642-71-9	Azinophosethyl	Various	(PCNs)
4824-78-6	Bromophos-ethyl	Various	Halogenated diarylalkanes
2425-06-1	Captafol	99688-47-8	Halogenated diphenyl methanes, including Monomethyl-dibromo-
63-25-2	Carbaryl	81161-70-8	diphenyl methane, Monomethyl-dichloro-diphenyl methane, and
510-15-6	Chlorbenzilat	76253-60-6	Monomethyl-tetrachloro-diphenyl methane
57-74-9	Chlordane	76-44-8	Heptachlor
6164-98-3	Chlordimeform	1024-57-3	Heptachloroepoxide
470-90-6	Chlorfenvinphos	319-84-6	a-Hexachlorocyclohexane with and without Lindane
1897-45-6	Chlorthalonil	319-85-7	b-Hexachlorocyclohexane with and without Lindane
56-72-4	Coumaphos	319-86-8	g-Hexachlorocyclohexane with and without Lindane
68359-37-5	Cyfluthrin	118-74-1	Hexachlorobenzene
91465-08-6	Cyhalothrin	465-73-6	Isodrine
52315-07-8	Cypermethrin	4234-79-1	Kelevane
78-48-8	S,S,S-Tributyl phosphorotrithioate (Tribufos)	143-50-0	Kepone
52918-63-5	Deltamethrin	7784-40-9	Lead hydrogen arsenate
53-19-0	DDD	58-89-9	Lindane
72-54-8		121-75-5	Malathione
3424-82-6	DDE	94-74-6	MCPA
72-55-9	DDE	94-81-5	MCPB
50-29-3		93-65-2	Mecoprop
789-02-6	DDT	10265-92-6	Metamidophos
333-41-5	Diazinone	72-43-5	Methoxychlor
1085-98-9	Dichlofluanide	2385-85-5	Mirex
120-36-5	Dichloroprop	6923-22-4	Monocrotophos
115-32-2	Dicofol	298-00-0	Parathion-methyl
141-66-2	Dicrotophos	1825-21-4	Pentachloroanisole
60-57-1	Dieldrine	7786-34-7	Phosdrin/Mevinphos
60-51-5	Dimethoate	72-56-0	Perthane
88-85-7	Dinoseb, its salts and acetate	31218-83-4	Propethamphos
57648-21-2	DTTB (Timiperone)	41198-08-7	Profenophos
115-29-7	Endosulfan	13593-03-8	Quinalphos
959-98-8	Endosulfan I (alpha)	82-68-8	Quintozene
33213-65-9	Endosulfan II (beta)	8001-50-1	Strobane
72-20-8	Endrine	297-78-9	Telodrine
66230-04-4	Esfenvalerate	8001-35-2	Toxaphene
106-93-4	Ethylendibromid	731-27-1	Tolylfluanide
56-38-2	Ethylparathione	1582-09-8	Trifluraline

It is the supplier's responsibility to comply with this RSL and all relevant legislation, thereby avoiding the use of harmful or illegal chemicals in the making of Pentland Brands' products. The requirement to comply with this RSL and all relevant legislation is included in, or additional to, all legal partnership agreements relating to the manufacture of Pentland Brands' product lines. Suppliers must take ownership of associated testing and chemical traceability in order to provide Pentland with compliant materials and product.

Pentland Brands recommends that in order to have confidence in the compliance of certain materials / finished goods that suppliers conduct risk-based testing per the testing matrix outlined by AFIRM and on the following slide.



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Pentland Brands expect suppliers to be able to provide evidence that materials, components or finished products supplied comply with the RSL. Responsibility for testing and associated costs lies with the supplier.

Suppliers must therefor declare if any material is unable to meet RSL for further discussion with Pentland.

Pentland Brands will also carry out ad-hoc due diligence testing on material, components or finished product as they see fit. This additional testing will be coordinated and paid for by Pentland.

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Pentland Brands will assess any failure against the RSL standards individually and take appropriate action.

In the event of a test failure, suppliers will be required to conduct failure analysis and, where appropriate, provide an action plan to resolve the issue for current and/or future production.

Suppliers may be required to remediate products, remake products or replace affected components at their own cost.

Additional requirements

Individual Pentland Brands may have additional requirements relating to certification requirements or substances used in manufacturing their products. Brands will communicate these requirements directly to the supplier and/or licensee partners.

Testing matrix

In the apparel and footwear supply chain, certain types of fibres and materials are more likely to contain restricted substances than others. AFIRM recommend the following approach to testing, giving guidance to suppliers about the likelihood of presence of substances in a certain material. This matrix was developed by AFIRM using knowledge of industry standard RSL testing approaches and their broader understanding of supply chain operations across their brand members.

Chemicals assigned a Level 1 in materials should be viewed as the minimum amount of testing required to satisfy AFIRM member requirements, and chemicals assigned a Level 2 are recommended for additional testing and may be required at brand discretion.



Rating	Description
1	Red indicates higher risk, and that testing is required
2	Orange indicates a lower risk, and that testing is recommended
White	Blank indicates no risk, that the substance is not anticipated to be present in the material. No testing required.
Border	Boxes with border highlighted have been modified by Pentland to reflect risks observed in its supply chain

Testing matrix

NOTE: For recycled materials, additional testing may be required at Level 1; check with each brand on requirements.

							nic,		Polymers									
Substance Substance	Glue																	
Acetophenone and 2-Phenyl-2-Propanol									2									
Acidic and Alkaline Substances (pH)	1	1	1	1	1													
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs), including all isomers	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1
Azo-amines and Aryl Amine salts	1	1	1	1A	1	1A		1A									1	
Bisphenols		2	2		2				2	2	2	2	1	2	2	2		
Chlorinated Paraffins				2	1				2	2	1	1	2	2	1	2		
Chlorophenols	2	2	2		2													
Chlorinated Benzenes and Toluenes		2	2	2														
Dimethylfumarate (DMFu)					2													
Dyes, Forbidden and Disperse		1	1	1													2	
Dyes, Navy Blue		2	2															
Flame Retardants									2B									
Fluorinated Greenhouse Gases																		
Formaldehyde	1	1	1	2	1	1C						2					1	1
 A Level 1 for dyed/colored materials. B Level 2 if Flame Retardant use or contamination is suspected. C Level 1 for Wood, Paper, and Straw materials. 	E L F (_evel 2 if Copper is	r Wool ma extractrab exempt fr r plant-bas	le Chrom om restri	ction limit	s in Metal		id. 1 for PVC	materials	s.			M L c	evel 1 if F therwise	Rubber or Level 2.	ed finish is black Poly d material	/meric ma	

Testing matrix

								mic,					Poly	ners							
Substance	Natural Fibers	Synthetic Fibers	Natural & Synthetic Blends	Artificial Leather	Natural Leather	Natural Materials	Metals	Metals Other: Porcelain, Ceramic, Glass, Crystal, Etc.	Other: Porcelain, Ceral Glass, Crystal, Etc.	Other: Porcelain, Cera Glass, Crystal, Etc. Feathers & Down	Feathers & Down	EVA	PU Foams	All other PU & TPU	Rubber Excludes Latex and Silicon Rubbers	Polycarbonate	ABS	PVC	All Other Foams, Plastics & Polymers	Coatings & Prints	Glue
Heavy Metals, Chromium VI	2D	2E			1																
Heavy Metals, Extractable	1	1	1	2	1		2F			2	2	2	2	2	2	2	2	2			
Heavy Metals, Nickel Release							1														
Heavy Metals, Total	2G		2G	1	2		1	1H		1	1	1	1	1	1	1	1	1	2		
Monomers, Styrene & Vinyl Chloride				1J									2K		2	1		1J			
N-Nitrosamines													2								
Organotin Compounds		2	2	1	2						1	1	1			1	1	1	1		
Ortho-phenylphenol (OPP)	2	2	2	2	2													2			
Ozone-depleting Substances																					
Perfluorinated and Polyfluorinated Chemicals (PFCs)										1L											
Pesticides, Agricultural																					
Phthalates				1						1	1	1	1	2	2	1	1	1	1		
Polycyclic Aromatic Hydrocarbons (PAHs)				2						1M	1M	1M	1			1M	1M	1M	1M		
Quinoline		2	2																		
Solvents / Residuals, DMFa				1							1	1						1N	1N		
Solvents / Residuals, DMAC and NMP				1							2	2					2	2	2		
Solvents / Residuals, Formamide										2								2			
UV Absorbers / Stabilizers										2	2	2	2	2	2	2	2				
Volatile Organic Compounds (VOCs)				2						2	2	2	2	2	2	2	2	2	1		

A Level 1 for dyed/colored materials.

B Level 2 if Flame Retardant use or contamination is suspected.

C Level 1 for Wood, Paper, and Straw materials.

D Level 2 for Wool materials.

E Level 2 if extractrable Chrome above 1 ppm.

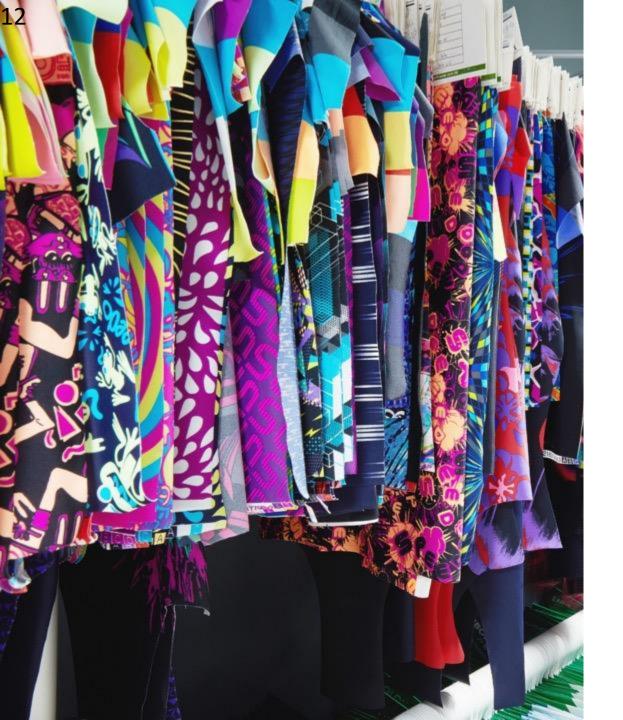
G Level 1 for PVC materials.
 G Level 2 for plant-based fibers; N/A for animal-based fibers.
 K Level 2 for Styrene/Butadiene Rubbers (SBRs) only.

H Level 1 for Cadmium and Lead only; Crystal is exempt for Lead.

L Level 1 if a Fluorinated finish is applied.

M Level 1 if Rubber or black Polymeric materials, otherwise Level 2.

N Level 1 for PU-based materials.



Manufacturing chemistry guidance

In order to ensure compliance with the RSL and minimise the chemical risks to workers and the environment in manufacturing, it is strongly recommended suppliers make use of the systems outlined on the next page, to screen for compliant formulations.

AFIRM chemical information sheets

AFIRM member brands have produced a comprehensive set of educational materials advising suppliers about best practices for chemical management. Each chemical information sheet covers a chemical or class of chemicals, giving an overview of the substance(s), where they are likely to be found in the material process and how to maintain compliance with the AFIRM RSL. The complete library of chemical information sheets is available on the AFIRM website at <u>http://afirm-group.com/informationsheets</u>

For more information on the AFIRM Group visit www.afirm-group.com

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Additional external resources to provide suppliers with guidance on best practice chemical compliance

bluesign ®

The bluesign[®] bluefinder is an online database of bluesign[®] approved chemicals which can be used to screen for suitable chemistry. Suppliers which are not already a member of the bluesign[®] system should contact <u>cr@pentland.com</u> for details on how to access bluesign[®] bluefinder.

For more information visit www.bluesign.com



OEKO-TEX®

The OEKO-TEX® Eco-Passport system certifies chemical formulations for compliance against the OEKO-TEX ® RSL and MSRL. This certification can be used to screen chemical formulations.

For more information visit www.oeko-tex.com

ZDHC manufacturing Restricted Substances List (MRSL)

Zero Discharge of Hazardous Chemicals (ZDHC) is promoting a harmonised approach to managing chemicals during the processing of raw materials within the apparel and footwear supply chain through their MRSL. Pentland Brands encourages its supply chain to contact their chemical suppliers and communicate the ZDHC MRSL standard to them. Chemical suppliers should be able to confirm which of their products meet this standard.

A copy of the most current ZDHC MRSL can be downloaded from the ZDHC website www.roadmaptozero.com





14 Other guidelines and policies

Anti-microbial guidelines

Pentland Brands currently restricts the use of anti-microbial technologies, approval for the use of which must be sought in writing. It applies where a chemical is added to the fabric (as a finish or within the fibre itself) in order to impart anti-bacterial, anti-microbial or anti-odour properties. It does not apply to fibres which have an inherent anti-odour property such as wool.

The most likely scenarios whereby these chemicals could enter Pentland Brands products are:

- Specified as a performance requirement e.g. anti-odour finishes
- Used to inhibit growth of mould during storage/transportation

Dimethyl fumarate (DMFu)

The use of DMFu to inhibit growth of mould during storage or transport is prohibited



Animal based products

There are additional requirements for the use of animal based products. These are outlined in the Pentland Brands' Ethical materials policy and can be downloaded from <u>Pentland Brands /</u> <u>Standards, policies and resources</u> The conditions described below must be met prior to the approval of such chemicals for use within Pentland Brands product:

- Full disclosure of the chemistry used
- Be proven effective for our product types
- No leaching or release of chemicals in order to be
 effective
- Be registered under the EU Biocidal Products Regulation
- Meet global legislative standards
- Comply with the Pentland Brands Restricted Substances List
- Be listed in the bluesign® bluefinder or Oeko-tex®
 list of approved products with biological activity

Please contact <u>product.compliance@pentland.com</u> for further guidance on the approval process.

For further information about Product Compliance at Pentland Brands, contact product.compliance@pentland.com or visit www.pentlandbrands.com

Pentland Brands Ltd

Squires Lane

London

N3 2QL



