## **MUJI Product Restricted Substances List**



## **SCOPE**

- •Apparel(including inner wear): Any garment worn on the body intended to protect, cover, or adorn.
- •Footwear: Any durable covering for the feet intended to protect, cover, or comfort.
- ·Accessories(including bag): Any product intended to complement apparel, both carried and worn.
- ·Home Textiles: Any product intended for functional or decorative purposes in the home.
- •Trim Parts: Except for the packaging materials, all the trims and accessories that sewed in the products(sewing thread, button, interlining, lining, zips, care labels, etc.)
- %Product examples are avaliable at <a href="https://afirm-group.com/wp-content/uploads/2023/04/2023">https://afirm-group.com/wp-content/uploads/2023/04/2023</a> AFIRM RSL 2023 0419a.pdf

## **SECTION 1: SUBSTANCES PROHIBITED OR REGULATED BY LAW**

CAS No	Substance	MUJI Limits	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit	Revision				
OAO NO.		Component Materials in Finished Product			Limits above which test results should be reported	20240205				
Acetophe	Acetophenone and 2-Phenyl-2-Propanol									
98-86-2	Acetophenone	50 nnm each	Potential breakdown products in EVA foam when using certain cross-	Extraction in acetone or methanol GC/MS, sonication	25 ppm each					
617-94-7	2-Phenyl-2-Propanol	оо ррин ошен		for 30 minutes at 60° C	1 55 333					
Acidic an	d Alkaline Substances									
N/A	ľ	Textiles: 4.0 – 7.5 Leather: Chrome-tanned: 3.2 – 4.5 Other: 3.5 – 7.0	pH value is a characteristic number, ranging from pH 0 to pH 14, which indirectly shows the content of acidic or alkaline substances in a product. pH values less than 7 indicate sources of acidic substances, and values greater than 7 indicate sources of alkaline substances. To avoid irritation or chemical burns to the skin, the pH value of products must be in the range of human skin—approximately pH 5.5.  AFIRM recommends the limits cited to comply with global regulations and to minimize the chances of Chromium VI formation during tanning and processing of leather.  Important: Egypt, Morocco, and the Gulf Cooperation Council (GCC) require pH for leather not lower than 3.5.	Textiles and synthetic coated fabrics: EN ISO 3071:2020 Leather: EN ISO 4045:2018	N/A					

CAS No.	Substance	MUJI Limits  Component Materials in Finished  Product	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit  Limits above which test results should be reported	Revision				
Alkylpher	lkylphenols (APs) Alkylphenol Ethoxylates (APEOs) including all isomers									
Various	Nonylphenol (NP), mixed isomers	S f f f f f f f f f f f f f f f f f f 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 to protect or stabilize polymers. Biodegradation 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.  Recycled products: Contact your brand customer for information about potential exemptions from the limit on NPEOs in recycled textile products.	Textiles and Leather: EN ISO 21084:2019 Polymers and all other materials: 1 g sample/20 mL THF,	Total of NP + OP: 3 ppm					
Various	Octylphenol (OP), mixed isomers			rig sample/20 IIL THE, sonication for 60 minutes at 70° C, analysis according to EN ISO 21084:2019						
Various	Nonylphenol ethoxylates (NPEOs)				Total of NPEOs + OPEOs: 20 ppm					
Various	Octylphenol ethoxylates (OPEOs)									

CAS No.	Substance	MUJI Limits	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit	Revision		
CAS NO.	Substance	Component Materials in Finished Product	rotential oses & Additional Information	Sultable Test Method	Limits above which test results should be reported	20240205		
Azo-amines and 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	1						
106-47-8	p-Chloraniline	]						
615-05-4	2,4-Diaminoanisole	]	Azo dyes and pigments are colorants 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 cleaved amines are restricted.					
101-77-9	4,4'-Diaminodiphenylmethane	]						
91-94-1	3,3'-Dichlorobenzidine							
119-90-4	3,3'-Dimethoxybenzidine	1		All materials except leather:				
119-93-7	3,3'-Dimethylbenzidine	1		EN ISO 14362-1:2017				
838-88-0	3,3'-dimethyl-4,4'- diaminodiphenylmethane			Leather:				
120-71-8	p-Cresidine	<b>1</b>		p-Aminoazobenzene: All materials except leather: EN ISO 14362-3:2017	5 ppm each			
101-14-4	4,4'-Methylen-bis(2-chloraniline)	20 ppm each						
101-80-4	4,4'-Oxydianiline	1	Azo dyes that release these amines are regulated and should no longer					
139-65-1	4,4'-Thiodianiline	1	be used for dyeing textiles.	Leather:				
95-53-4	o-Toluidine	1		EN ISO 17234-2:2011				
95-80-7	2,4-Toluenediamine	1						
137-17-7	2,4,5-Trimethylaniline	1						
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							

OAO Na	Out of an a	MUJI Limits	Detection to a delivery of the control of	Outtable Tank Made at	Reporting Limit	Revision
CAS NO.	Substance	Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Limits above which test results should be reported	20240205
Bispheno	ls					
80-05-7	Bisphenol-A (BPA)	1 ppm Limit is applicable to items intended to come in contact with the mouth.	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 and can be found along with BPF in polyamide dye-fixing agents and sulfone- and phenol- based leather tanning agents.		0.1 ppm for individual samples 1 ppm for composite samples	
80-09-1	Bisphenol S (BPS)	1000 ppm each In preparation for forthcoming	BPA and BPS can be found in recycled polymeric and paper materials due to polycarbonate plastic and thermal receipt paper made with	All materials: Extraction:		Lindatad
77-40-7	Bisphenol B (BPB)	restrictions, safer alternatives should be substituted for BPA and other listed bisphenols in all applicable materials.		1 g sample/20 ml THF, sonication for 60 minutes at 60° C, analysis with LC/MS	1 nnm each	Updated regulated limts and added a
620-92-8	Bisphenol F (BPF)	*Please submit a `Report on the Use of Hazardous Substances` for products intentionally uesd,	the entire class of bisphenols are forthcoming with a new restriction proposal pending in the European Union.  AFIRM recommends testing relevant materials for bisphenols according		1 ppm each	reporting request for intentional use.
1478-61-1	Bisphenol AF (BPAF)	even if they fall below the regulated limt.	to the Testing Matrix and to begin working with suppliers to replace bisphenols with suitable alternatives in all products.			international acc.
Chlorinat	ed Paraffins					
85535-84-8	Short-chain Chlorinated Paraffins (SCCPs) (C10-C13)	1000 ppm	May be used as softeners, flame retardants, or fat-liquoring agents in leather production; also as a plasticizer in polymer production.	Leather: ISO 18219-1:2021 (SCCP) ISO 18219-2:2021 (MCCP) Textiles and all other materials: ISO 22818:2021 (SCCP + MCCP)	100 ppm	
85535-85-9	Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	1000 ppm			100 ppm	
Chloroph	enols					
15950-66-0	2,3,4-Trichlorophenol (TriCP)					
933-78-8	2,3,5-Trichlorophenol (TriCP)					
933-75-5	2,3,6-Trichlorophenol (TriCP)					
95-95-4	2,4,5-Trichlorophenol (TriCP)		Chlorophenols are polychlorinated compounds used as preservatives or			
88-06-2	2,4,6-Trichlorophenol (TriCP)		pesticides. Pentachlorophenol (PCP), Tetrachlorophenol (TeCP), and			
609-19-8	3,4,5-Trichlorophenol (TriCP)	0.5 ppm each	Trichlorophenols (TriCP) are sometimes used to prevent mold and kill insects when growing cotton and when storing/transporting fabrics.	All materials: DIN 50009:2021	0.5 ppm each	
4901-51-3	2,3,4,5-Tetrachlorophenol (TeCP)		PCP, TeCP, and TriCP can also be used as in-can preservatives in print pastes and other chemical mixtures.			
58-90-2	2,3,4,6-Tetrachlorophenol (TeCP)		print pastes and other chemical mixtures.			
935-95-5	2,3,5,6-Tetrachlorophenol (TeCP)					
87-86-5	Pentachlorophenol (PCP) and its salts and esters					

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OAO ITO.	Guscianio	Component Materials in Finished Product	Totomar 6555 a Additional Information		Limits above which test results should be reported	20240205
Chlorinat	ed Benzenes 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					
95-75-0	3,4-Dichlorotoluene		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 A cause failures.			
2077-46-5	2,3,6-Trichlorotoluene					
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				0.2 ppm each	
877-11-2	Pentachlorotoluene	Total: 1 ppm		All materials: EN 17137:2018		
541-73-1	1,3-Dichlorobenzene					
106-46-7	1,4-Dichlorobenzene		Important: The Gulf Cooperation Council (GCC) maintains a limit of 1			
87-61-6	1,2,3-Trichlorobenzene		ppm for 1,2-Dichlorobenzene in textiles.			
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			1 ppm	

CAS No.	Cubatanaa	MUJI Limits	Detential Hose 9 Additional Information	Cuitable Test Mathad	Reporting Limit	Revision
CAS NO.	Substance	Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Limits above which test results should be reported	20240205
Dimethyl	fumarate					
624-49-7	Dimethylfumarate (DMFu)	0.1 ppm	DMFu is an anti-mold agent that may be used in sachets in packaging to prevent the buildup of mold, especially during shipping.	All materials: ISO 16186:2021	0.05 ppm	
Dyes (Fo	rbidden and Disperse /					
2475-45-8	C.I. Disperse Blue 1					
2475-46-9	C.I. Disperse Blue 3					1
3179-90-6	C.I. Disperse Blue 7		Disperse dyes are a class of			1
3860-63-7	C.I. Disperse Blue 26					1
56524-77-7	C.I. Disperse Blue 35A					1
56524-76-6	C.I. Disperse Blue 35B					1
12222-97-8	C.I. Disperse Blue 102				2 15 ppm each	1
12223-01-7	C.I. Disperse Blue 106					1
61951-51-7	C.I. Disperse Blue 124		water-insoluble dyes that penetrate the fiber system of synthetic or manufactured fibers and are held in place by physical forces without			1
23355-64-8	C.I. Disperse Brown 1	30 ppm each	forming chemical bonds. Disperse dyes are used in synthetic fiber	All materials: DIN 54231:2022		1
2581-69-3	C.I. Disperse Orange 1		(e.g., polyester, acetate, polyamide). Restricted disperse dyes are suspected of causing allergic reactions			1
730-40-5	C.I. Disperse Orange 3		and are prohibited from use for dyeing of textiles.			1
82-28-0	C.I. Disperse Orange 11					1
12223-33-5						1
13301-61-6	C.I. Disperse Orange 37/76/59					1
51811-42-8						1
85136-74-9	C.I. Disperse Orange 149					1
2872-52-8	C.I. Disperse Red 1					1
2872-48-2	C.I. Disperse Red 11					1

CAS No.	Substance	MUJI Limits  Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit  Limits above which test results should be reported	Revision				
Dyes, cor	yes, 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		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.							
12236-29-2	C.I. Disperse Yellow 39									
54824-37-2	C.I. Disperse Yellow 49									
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		.I. Basic Green 4 30 ppm each (e.		All materials: DIN 54231:2022	2 15 ppm each					
2437-29-8	C.I. Basic Green 4									
10309-95-2										
548-62-9	C.I. Basic Violet 3	1								
632-99-5	C.I. Basic Violet 14									
2580-56-5	C.I. Basic Blue 26	1								
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	1								
60-11-7	4-Dimethylaminoazobenzene (Solvent Yellow 2)	1								
6786-83-0	C.I. Solvent Blue 4	1								
561-41-1	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol									

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CAS NO.	Substance	Component Materials in Finished Product	rotential uses & Additional Information	Sultable Test Method	Limits above which test results should be reported	20240205			
Dyes, Nav	yes, Navy Blue								
118685-33-9	Component 1: C39H23ClCrN7O12S·2Na	-30 ppm each	Navy blue colorants are regulated and prohibited from use for dyeing of textiles.	All materials: DIN 54231:2022	15 ppm oach				
Not allocated	Component 2: C46H30CrN10O20S2·3Na		Index 611-070-00-2						
Flame Re	Flame Retardants								
84852-53-9	Decabromodiphenyl ethane (DBDPE)								
32534-81-9	Pentabromodiphenyl ether (PentaBDE)								
32536-52-0	Octabromodiphenyl ether (OctaBDE)								
1163-19-5	Decabromodiphenyl ether (DecaBDE)								
Various	All other Polybrominated diphenyl ethers (PBDEs)				5 ppm each				
79-94-7	Tetrabromobisphenol A (TBBP A)								
59536-65-1	Polybromobiphenyls (PBB)		Listed here are examples of flame-retardant substances used historically across the apparel and footwear industry. It is not intended to						
3194-55-6	Hexabromocyclododecane (HBCDD)	10 ppm each	be a complete list. Other flame retardants not applicable to this industry are regulated worldwide by the Stockholm Convention and the Aarhus						
3296-90-0	2,2-bis(bromomethyl)-1,3-propanediol (BBMP)		Protocol, which have been implemented in the European Union under the POPs Regulation.						
13674-87-8	Tris(1,3-dichloro-isopropyl) phosphate (TDCPP)		The 10 ppm limit is established to account for incidental impurities, byproducts, and contaminants. Flame retardants should not be used for						
25155-23-1	Trixylyl phosphate (TXP)		any other purpose, e.g., as softeners or plasticizers.						
126-72-7	Tris(2,3,-dibromopropyl) phosphate (TRIS)			All materials: EN ISO 17881-					
545-55-1	Tris(1-aziridinyl)phosphine oxide) (TEPA)			2:2016					
115-96-8	Tris(2-chloroethyl)phosphate (TCEP)								
5412-25-9	Bis(2,3-dibromopropyl) phosphate (BDBPP)								

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Fluorinate	luorinated Greenhouse Gases									
Various	See Regulation (EU) No 517/2014 for a complete list.	0.1 ppm each	May be used as foam blowing agents, solvents, fire retardants, and	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.  Important: United Arab Emirates Cabinet Resolution No. (54) restricts Formaldehyde in children's textiles to 20 ppm.	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					

CAS No.	Substance	MUJI Limits  Component Materials in Finished  Product	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit  Limits above which test results should be reported	Revision		
Heavy Me	Heavy Metals (Non-Jewelry) Extractable and Total Content		See Appendix A for separate South Korea KC Mark soluble He	See Appendix A for separate South Korea KC Mark soluble Heavy Metal requirements.				
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			
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 may be 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			

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CAS NO.	Jubstance	Component Materials in Finished Product	r oteritial oses & Additional information	Suitable Test Method	Limits above which test results should be reported	20240205
Heavy M	Heavy Metals (Non-Jewelry), continued		See Appendix A for separate South Korea KC Mark soluble He	eavy Metal requirements.		
7440-47-3	Chromium (Cr)	Adults and children: 2 ppm	Chromium compounds can be used as dyeing additives; dye- fixing agents; colorfastness 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 other ages.	Textiles: DIN EN 16711- 2:2016 Leather: EN ISO 17072-1:2019	Extractable: 0.5 ppm	
18540-29-9	Chromium VI	• • • • • • • • • • • • • • • • • • • •	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).	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.		
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	
7440-50-8	Copper (Cu)		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.	All materials except leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072- 1:2019	Extractable: 5 ppm	

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		Product			results should be reported	20240205
Heavy M	letals (Non-Jewelry), conti	nued	See Appendix A for separate South Korea KC Mark soluble He	eavy Metal requirements.		
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.	Extractable: 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 alloys and improving corrosion-resistance and hardness of alloys. 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 1811:2011+A1:2015 Release (eyewear frames): EN 16128:2015	Extractable: 0.1 ppm Release: 0.5 µg/cm²/ week	
7782-49-2	Selenium (Se)	Extractable: 500 ppm	May be found in synthetic fibers, paints, inks, plastics and metal trims.	All materials except leather: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072- 1:2019	Extractable: 50 ppm	

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Heavy M	letals (Jewelry)		Sample preparation for jewelry and wearables: Wax areas not	intended for skin- contact:	EN 1811:2011+A1:201	5
7440-36-0	Antimony (Sb)	Paints & Coatings: Extractable: 60 ppm	Antimony and its compounds can be used as a Flame Retardant in paints, as well as a colorant in pigments.	ASTM F963-17 as referenced in ASTM F2923:2020	Extractable: 5 ppm	
7440-38-2	Arsenic (As)	Paints & Coatings: Extractable: 25 ppm	Arsenic and its compounds can be used in paints and inks.	ASTM F963-17 as referenced in ASTM F2923:2020	Extractable: 5 ppm	
7440-39-3	Barium (Ba)	Paints & Coatings: Extractable 1000 ppm	Barium and its compounds can be used in pigments for inks	ASTM F963-17 as referenced in ASTM F2923:2020	Extractable: 100 ppm	
7440-43-9	Cadmium (Cd)	Substrates, Paints & 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 F963-17 as referenced in ASTM F2923:2020	Total: 5 ppm	
7440-47-3	Chromium (Cr)	Paints & 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 F963-17 as referenced in ASTM F2923:2020	Extractable: 5 ppm	
7439-92-1	Lead (Pb)	Substrates, Paints & 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.	ASTM F963-17 as referenced in ASTM F2923:2020	Total: 10 ppm	
Heavy Me	etals (Non-Jewelry), continued	i				
7439-97-6	Mercury (Hg)	Paints & 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 F963-17 as referenced in ASTM F2923:2020	Extractable: 5 ppm	
7440-02-0	Nickel (Ni)	Release (metal parts): Prolonged skin contact: 0.5 µg/cm²/week Pierced part: 0.2 µg/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.		Release: Prolonged skin contact: 0.5 μg/cm²/week Pierced part: 0.2 μg/cm²/week	
7782-49-2	Selenium (Se)	Paints & Coatings: Extractable: 500 ppm	Selenium and its compounds may be found in paints and inks.	ASTM F963-17 as referenced in ASTM F2923:2020	Extractable: 50 ppm	

040 W		MUJI Limits			Reporting Limit	Revision
CAS No.	Substance	Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Limits above which test results should be reported	20240205
Monome	rs					
100-42-5	Styrene, Free	500 ppm	Styrene is a precursor for polymerization and may be present in various Styrene copolymers like plastic buttons. Free styrene is restricted, but total styrene is not.	Extraction in Methanol GC/MS, sonication at 60° 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 6401:2008	1 ppm	
N-Nitrosa	imines					
62-75-9	N-nitrosodimethylamine (NDMA)					
55-18-5	N-nitrosodiethylamine (NDEA)		Can be formed as by-product in the production of rubber.		0.5 ppm each	
621-64-7	N-nitrosodipropylamine (NDPA)					
924-16-3	N-nitrosodibutylamine (NDBA)					
100-75-4	N-nitrosopiperidine (NPIP)	0.5 ppm each		EN ISO 19577:2019 with LC/MS/MS verification if		
930-55-2	N-nitrosopyrrolidine (NPYR)			positive		
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)					
Organoti	n Compounds					
Various	Dibutyltin (DBT)					
Various	Dioctyltin (DOT)					
Various	Monobutyltin (MBT)		Class of chemicals combining tin and organics such as butyl and phenyl groups.			
Various	Tricyclohexyltin (TCyHT)	1 ppm each	Organotins are predominantly found in the environment as antifoulants in marine paints, but they can also be used as biocides (e.g.,	All materials:		
Various	Trimethyltin (TMT)		antibacterials), catalysts in plastic and glue production, and heat	CEN ISO/TS 16179:2012 or	0.1 ppm each	
Various	Trioctyltin (TOT)	]	stabilizers in plastics/rubber. In textiles and apparel, organotins are associated with plastics/ rubber,	EN ISO 22744-1:2020		
Various	Tripropyltin (TPT)	1	inks, paints, metallic glitter, polyurethane products and heat transfer material.			
Various	Tributyltin (TBT)	0 5 nnm aach				
Various	Triphenyltin (TPhT)	0.5 ppm each				

04011		MUJI Limits			Reporting Limit	Revision
CAS No.	Substance	Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Limits above which test results should be reported	20240205
Ortho-ph	enylphenol					
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: DIN 50009:2021	100 ppm	
Ozone-de	pleting Substances					
Various	See Regulation (EC) No 1005/2009 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° C for 45 minutes	5 ppm	
Per- and	Polyfluoroalkyl Substances (F	PFAS)				
Various	All PFAS as measured by total organic fluorine	50 ppm		EN 14582:2016 or ASTM D7359:2018	50 ppm total	
Various	Perfluorooctane Sulfonate (PFOS) and related substances	1 ppm		All materials: EN ISO 23702-1 or EN 17681-1:2022 & 17681- 2:2022	1 ppm	
Various	Perfluorooctanoic Acid (PFOA) and its salts	25 ppb total			25 ppb total	
Various	PFOA-related substances	1000 ppb total	Regulations around the world ban the use of PFAS in apparel and footwear, witg partial or full exemptions. PFAS may be used in commercial water-, oil-, and stain-repellent		1000 ppb total	
Various	Perfluorohexane-1-sulphonic acid (PFHxS) and its salts	25 ppb total	agents as well as in breathable membranes that remove moisture, e.g., PTFE.		25 ppb total	
Various	PFHxS-related substances	1000 ppb total	for which testing can be conducted to indicate whether PFAS chemistry is present above restricted levels due to intended use or unintended		1000 ppb total	
Various	C9-C14 Perfluorocarboxylic acids (PFCAs) and their salts	25 ppb total	contamination.		25 ppb total	
Various	C9-C14 PFCA-related substances	260 ppb total			260 ppb total	
Various	Other Perfluoroalkyl Carboxylic Acids (PFCAs)	For information purposes only. AFIRM recom- mends testing to assess content levels.			100 ppb total	
Pesticide	s and Herbicides, Agricultura	ı				
Various	See Appendix C for a complete list.	0.5 ppm each	May be found in natural fibers, primarily cotton.	All materials: ISO 15913/DIN 38407 F2 or EPA 8081/EPA 8151A or BVL L 00.00-34:2010-09	0.5 ppm each	

040.11		MUJI Limits			Reporting Limit	Revision			
CAS No.	Substance	Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Limits above which test results should be reported	20240205			
Phthalate	hthalates								
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)								
84-66-2	Diethylphthalate (DEP)								
131-11-3	Dimethylphthalate (DMP)		Esters of ortho-phthalic acid (Phthalates) are a class of organic compound commonly added to plastics to increase flexibility. They are sometimes used to facilitate the molding of plastic by decreasing its melting temperature. Phthalates can be found in: Flexible plastic components (e.g., PVC) Print pastesxx Adhesives Plastic buttons						
131-18-0	Di-n-pentyl phthalate (DPENP)								
84-61-7	Dicyclohexyl phthalate (DCHP)			Sample preparation for all materials: CPSC-CH-C1001-					
71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich			Measurement: Textiles: GC/MS, EN ISO 14389:2014 (7.1 Calculation based on weight of print only; 7.2 Calculation based on weight of print and textile if print cannot be removed). All materials except textiles: GC/MS					
117-82-8	Bis(2-methoxyethyl) phthalate				50 ppm each				
605-50-5	Diisopentyl phthalate (DIPP)	500 ppm each Total: 1000 ppm							
131-16-8	Dipropyl phthalate (DPRP)	токат. 1000 рртп							
27554-26-3	Diisooctyl phthalate (DIOP)								
68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear		Polymeric coatings						
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 and octyl diesters with <sup>3</sup> 0.3% of dihexyl phthalate; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters;								
68515-51-5	1,2-Benzenedicarboxylic acid, di-C6- 10-alkyl esters								
776297-69-9	n-Pentyl-isopentylphthalate (nPIPP)								

CAS No	Substance	MUJI Limits	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit	Revision			
CAS NO.	Substance	Component Materials in Finished Product	Potential uses & Additional Information	Sultable Test Method	Limits above which test results should be reported	20240205			
Polycycli	lycyclic Aromatic 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	①No individual restriction	PAHs are natural components of crude oil and are common residues						
206-44-0	Fluoranthene	① + ② = Total: 10 ppm	from oil refining. PAHs have a characteristic smell similar to that of car						
193-39-5	Indeno(1,2,3-cd)pyrene		PAHs can be present as impurities in Carbon Black. They also may be formed from thermal decomposition of recycled materials during reprocessing  Naphthalene:						
91-20-3	Naphthalene**	]							
85-01-8	Phenanthrene	]		All materials: AFPS GS 2019 or EN 17132 or	0.0				
129-00-0	Pyrene	]		ISO 16190	0.2 ppm each				
56-55-3	Benzo(a)anthracene								
50-32-8	Benzo(a)pyrene								
205-99-2	Benzo(b)fluoranthene	②1 ppm each	Dispersing agents for textile dyes may contain high residual Naphthalene concentrations due to the use of low-quality						
192-97-2	Benzo[e]pyrene	Child care articles: 0.5 ppm each	Naphthalene derivatives (e.g., poor- quality Naphthalene Sulphonate Formaldehyde condensation products).						
205-82-3	Benzo[j]fluoranthene	① + ② = Total: 10 ppm							
207-08-9	Benzo(k)fluoranthene	]							
218-01-9	Chrysene	]							
53-70-3	Dibenzo(a,h)anthracene								
Quinoline	)								
91-22-5	Quinoline	50 ppm	, ,	All materials: DIN 54231:2022 with methanol extraction at 70° C	10 ppm				

CAS No.	Substance	MUJI Limits	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit	Revision
OAO NO.	Gubotanos	Component Materials in Finished Product	otential oses & Additional Information	outtable rest method	Limits above which test results should be reported	20240205
Solvents	and Residuals					
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.		50 ppm each	
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 All other materials: ISO 16189:2021		
127-19-5	Dimethylacetamide (DMAC)		Solvent used in the production of elastane fibers and sometimes as substitute for DMFa.			
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 Absor	bers / Stabilizers					
3846-71-7	UV 320				100 ppm each	
3864-99-1	UV 327		PU foam materials such as open cell foams for padding. Used as UV Absorbers for plastics (PVC, PET, PC, PA, ABS, and other polymers),			
25973-55-1	UV 328	Tooo ppin each	rubber, polyurethane.	ISO 24040 with extraction in		
36437-37-3	UV 350			THF, analysis by GC/MS		
2440-22-4	Drometrizole	IAFIRM	Used as UV Absorbers for plastics (PVC, PET, PC, PA, ABS, and other polymers), rubber, and polyurethane.			

040 No	Out of our or	MUJI Limits	Detection the control of the control of	Ouitable Tast Mathed	Reporting Limit	Revision			
CAS No.	Substance	Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Limits above which test results should be reported	20240205			
Volatile C	latile Organic Compounds (VOCs)								
71-43-2	Benzene	5 ppm							
75-15-0	Carbon Disulfide								
56-23-5	Carbon Tetrachloride								
67-66-3	Chloroform								
108-94-1	Cyclohexanone								
107-06-2	1,2-Dichloroethane		I ney are associated with solvent- based processes such as solvent-						
75-35-4	1,1-Dichloroethylene								
100-41-4	Ethylbenzene								
76-01-7	Pentachloroethane			I(=('/MS headenace //h	Benzene: 5 ppm Other: 20 ppm each				
630-20-6	1,1,1,2- Tetrachloroethane								
79-34-5	1,1,2,2- Tetrachloroethane	Total: 1000 ppm							
127-18-4	Tetrachloroethylene (PERC)		cleaning.						
108-88-3	Toluene								
71-55-6	1,1,1- Trichloroethane								
79-00-5	1,1,2- Trichloroethane								
79-01-6	Trichloroethylene	1							
1330-20-7		1							
108-38-3	- Xylenes (meta-, ortho-, para-)								
95-47-6									
106-42-3									

CAS No.	Substance	MUJI Limits  Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit  Limits above which test results should be reported	Revision				
Appendix	pendix A. South Korea KC Mark Soluble Heavy Metal Requirements									
	ath Korea KC Mark requirements of children and products intende		Heavy Metals from surface coatings/paints, synthetic resi	ns, and paper materials in	n products intended to	be placed in				
7440-36-0	Antimony (Sb)	60 ppm	Found in or used as a catalyst in polymerization of polyester, flame retardants, fixing agents, pigments, and alloys.							
7440-38-2	Arsenic (As)	25 ppm	Arsenic and its compounds can be used in preservatives, pesticides, and defoliants for cotton, synthetic fibers, paints, inks, trims, and plastics.							
7440-39-3	Barium (Ba)	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.							
7440-43-9	Cadmium (Cd)	75 ppm	Cadmium compounds may be used as pigments (especially in red, orange, yellow and green); as a stabilizer for PVC; and in fertilizers, biocides, and paints.	ISO 8124-3:2010		_				
7440-47-3	Chromium (Cr)	60 ppm	Chromium compounds can be used as dyeing additives; dye- fixing agents; colorfastness after- treatments; dyes for wool, silk, and polyamide (especially dark shades); and leather tanning.	0.000						
7439-92-1	Lead (Pb)	90 ppm	May be associated with alloys, plastics, paints, inks, pigments and surface coatings.							
7439-97-6	Mercury (Hg)	60 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							
7782-49-2	Selenium (Se)	500 ppm	May be found in synthetic fibers, paints, inks, plastics and metal trims.							

		MUJI Limits			Reporting Limit	Revision
CAS No.	Substance	Component Materials in Finished	Potential Uses & Additional Information	Suitable Test Method	Limits above which test	20240205
Appondix	 ː B. Per- and Polyfluoroalkyl S	Product			results should be reported	20240200
	d Related Substances	not exhaustive. Findings	would indicate intentional use or significant contamination	n.		
	I			I	T T	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1 ppm	-		Total:1 ppm	
2795-39-3	Perfluorooctanesulfonic acid, potassium salt (PFOS-K)	1 ppm	-		Total:1 ppm	
29457-72-5	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	1 ppm	-		Total:1 ppm	
29081-56-9	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	1 ppm	-		Total:1 ppm	
70225-14-8	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )	1 ppm	-		Total:1 ppm	
56773-42-3	tetraethylammonium salt (PFOS- <u>NCEH)</u> the tracethylammonium salt (PFOS- <u>NCEH</u> ) the tracethylammonium	1 ppm	-	All material:	Total:1 ppm	
251099-16-8	perfluorooctane sulfonate (PFOS-	1 ppm	-	EN ISO 23702-1 or EN 17681-1:2022 and	Total:1 ppm	
4151-50-2	N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	1 ppm	-	17681-2:2022	Total:1 ppm	
31506-32-8	N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	1 ppm	-	]	Total:1 ppm	
1691-99-2	Z-(N-Etnyiperiluoro-1- octanesulfonamido)-ethanol (N-Et-	1 ppm	-	]	Total:1 ppm	
24448-09-7	ECSE) Z-(N-Metnylperiluoro-1- octanesulfonamido)-ethanol (N-Me-	1 ppm	-	]	Total:1 ppm	
307-35-7	Perfluoro-1-octanesulfonyl fluoride (POSF)	1 ppm	-	]	Total:1 ppm	
754-91-6	Perfluorooctane sulfonamide (PFOSA)	1 ppm	-	]	Total:1 ppm	
PFOA and	d Its Salts					
335-67-1	Perfluorooctanoic acid (PFOA)	Total:25 ppb	-		Total:25 ppb	
335-95-5	Sodium perfluorooctanoate (PFOA-Na)	Total:25 ppb	-		Total:25 ppb	
2395-00-8	Potassium perfluorooctanoate (PFOA-K)	Total:25 ppb	-	All material: EN ISO 23702-1 or	Total:25 ppb	
335-93-3	Silver perfluorooctanoate (PFOA-Ag)	Total:25 ppb	-	EN 17681-1:2022 and 17681-2:2022	Total:25 ppb	
335-66-0	Perfluorooctanoyl fluoride (PFOA-F)	Total:25 ppb	-		Total:25 ppb	
3825-26-1	Ammonium pentadecafluorooctanoate (APFO)	Total:25 ppb	-		Total:25 ppb	

CAS No.	Substance	MUJI Limits  Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit  Limits above which test results should be reported	Revision
PFOA-rel	ated Substances	Troduct			results should be reported	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	Total: 1000 ppb	-		Total: 1000 ppb	
376-27-2	Methyl perfluorooctanoate (Me-PFOA)	Total: 1000 ppb	-	All material: EN ISO 23702-1 or EN 17681-1:2022 and	Total: 1000 ppb	
3108-24-5	Ethyl perfluorooctanoate (Et-PFOA)	Total: 1000 ppb	-		Total: 1000 ppb	
678-39-7	2-Perfluorooctylethanol (8:2 FTOH)	Total: 1000 ppb			Total: 1000 ppb	
27905-45-9	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	Total: 1000 ppb	-	17681-2:2022	Total: 1000 ppb	
1996-88-9	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	Total: 1000 ppb	-		Total: 1000 ppb	
27854-31-5	2H,2H-Perfluorodecanoic acid (H2PFDA)	Total: 1000 ppb	-		Total: 1000 ppb	
PFHxS ar	nd Its Salts					
355-46-4	Perfluorohexane Sulfonic acid (PFHxS)	Total:25 ppb	-		Total:25 ppb	
3871-99-6	Perfluorohexane Sulfonic acid, potassium salt (PFHxS-K)	Total:25 ppb	-	All material:	Total:25 ppb	
55120-77-9	Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)	Total:25 ppb		EN ISO 23702-1 or EN 17681-1:2022 and	Total:25 ppb	
68259-08-5	Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH4)	Total:25 ppb	-	17681-2:2022	Total:25 ppb	
82382-12-5	Perfluorohexane Sulfonic acid, sodium salt (PFHxS-Na)	Total:25 ppb	-		Total:25 ppb	
PFHxS-re	lated Substances					
68259-15-4	N-Methylperfluoro-1- hexanesulfonamide (N-Me-FHxSA)	Total: 1000 ppb	-	All material: EN ISO 23702-1 or	Total: 1000 ppb	
41997-13-1	Perfluorohexane sulfonamide (PFHxSA)	Total: 1000 ppb	-	EN 17681-1:2022 and 17681-2:2022	Total: 1000 ppb	

		MUJI Limits			Reporting Limit	Revision
CAS No.	Substance	Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Limits above which test results should be reported	20240205
C9 – C14	PFCAs and Their Salts					
375-95-1	Perfluorononanoic Acid (PFNA, C9- PFCA)	Total:25 ppb	-		Total:25 ppb	
335-76-2	Perfluorodecanoic Acid (PFDA, C10- PFCA)	Total:25 ppb	-		Total:25 ppb	
2058-94-8	Perfluoroundecanoic Acid (PFUnA, C11-PFCA)	Total:25 ppb	-	All material:	Total:25 ppb	
307-55-1	Perfluorododecanoic Acid (PFDoA, C12-PFCA)	Total:25 ppb	-	EN ISO 23702-1 or EN 17681-1:2022 and	Total:25 ppb	
72629-94-8	Perfluorotridecanoic Acid (PFTrDA, C13-PFCA)	Total:25 ppb	-	17681-2:2022	Total:25 ppb	
376-06-7	Perfluorotetradecanoic Acid (PFTeDA, C14-PFCA)	Total:25 ppb	-		Total:25 ppb	
172155-07-6	Perfluoro-3-7- dimethyloctanecarboxylate (PF-3,7- DMOA)	Total:25 ppb	•		Total:25 ppb	
C9 – C14	PFCA-related Substances					
17741-60-5	1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	Total:260 ppb	-		Total:260 ppb	
2144-54-9	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	Total:260 ppb	-		Total:260 ppb	
865-86-1	1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	Total:260 ppb	-		Total:260 ppb	
34598-33-9	2H,2H,3H,3H-Perufloroundecanoic acid (H4PFUnA)	Total:260 ppb	-	All material:	Total:260 ppb	
678-39-7	Perfluorocylethanol 8:2 (8:2 FTOH)	Total:260 ppb	•	EN ISO 23702-1 or EN 17681-1:2022 and	Total:260 ppb	
39239-77-5	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	Total:260 ppb	-	17681-2:2022	Total:260 ppb	
120226-60-0	TH,TH,ZH,ZH- Perfluorododecanesulphonic acid (10:2 FTS)	Total:260 ppb	-		Total:260 ppb	
2043-54-1	1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	Total:260 ppb	-		Total:260 ppb	
30046-31-2	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	Total:260 ppb	-	1	Total:260 ppb	
Other Per	fluoroalkyl Carboxylic Acids	(PFCAs)				
307-24-4	Perfluorohexanoic Acid (PFHxA, C6- PFCA)	-	-	All material: EN ISO 23702-1 or EN 17681-1:2022 and 17681-2:2022	Total: 1000 ppb	

040 N	Out of an a	MUJI Limits	Determinable of Additional Information	Outstall Tank Marks and	Reporting Limit	Revision
CAS No.	Substance	Component Materials in Finished Product	Potential Uses & Additional Information	Suitable Test Method	Limits above which test results should be reported	20240205
Appendix	C. Pesticides and Herbicides	s, Agricultural				
93-72-1	2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds; 2,4,5-TP	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
93-76-5	2,4,5-T	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
94-75-7	2,4-D	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
309-00-2	Aldrine	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
86-50-0	Azinophosmethyl	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
2642-71-9	Azinophosethyl	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
4824-78-6	Bromophos-ethyl	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
2425-06-1	Captafol	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
63-25-2	Carbaryl	0.5 ppm	May be found in natural fibers, primarily cotton.	All material:	0.5 ppm	
510-15-6	Chlorbenzilat	0.5 ppm	May be found in natural fibers, primarily cotton.	ISO 15913/DIN 38407 F2 or EPA 8081/EPA 8151A or	0.5 ppm	
57-74-9	Chlordane	0.5 ppm	May be found in natural fibers, primarily cotton.	BVL L 00.00-34:2010-09	0.5 ppm	
6164-98-3	Chlordimeform	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
470-90-6	Chlorfenvinphos	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
1897-45-6	Chlorthalonil	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
56-72-4	Coumaphos	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
68359-37-5	Cyfluthrin	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
91465-08-6	Cyhalothrin	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	
52315-07-8	Cypermethrin	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm	

CAS No.	Substance	MUJI Limits	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit	Revision		
		Component Materials in Finished Product			Limits above which test results should be reported	20240205		
Appendix	Appendix C. Pesticides and Herbicides, Agricultural , continued							
78-48-8	S,S,S-Tributyl phosphorotrithioate (Tribufos)	0.5 ppm	May be found in natural fibers, primarily cotton.	All material: ISO 15913/DIN 38407 F2 or EPA 8081/EPA 8151A or BVL L 00.00-34:2010-09	0.5 ppm			
52918-63-5	Deltamethrin	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
53-19-0 72-54-8	DDD	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
3424-82-6 72-55-9	DDE	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
50-29-3 789-02-6	DDT	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
333-41-5	Diazinone	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
1085-98-9	Dichlofluanide	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
120-36-5	Dichloroprop	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
115-32-2	Dicofol	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
141-66-2	Dicrotophos	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
60-57-1	Dieldrine	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
60-51-5	Dimethoate	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
88-85-7	Dinoseb, its salts and acetate	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
63405-99-2	DTTB (4, 6-Dichloro-7 (2,4,5-trichloro- phenoxy)-2-Trifluoro methyl benz imidazole)	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
115-29-7	Endosulfan	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
959-98-8	Endosulfan I (alpha)	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
33213-65-9	Endosulfan II (beta)	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
72-20-8	Endrine	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			

CAS No.	Substance	MUJI Limits	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit	Revision		
		Component Materials in Finished Product			Limits above which test results should be reported	20240205		
Appendix	Appendix C. Pesticides and Herbicides, Agricultural , continued							
66230-04-4	Esfenvalerate	0.5 ppm	May be found in natural fibers, primarily cotton.	All material: ISO 15913/DIN 38407 F2 or EPA 8081/EPA 8151A or BVL L 00.00-34:2010-09	0.5 ppm			
106-93-4	Ethylendibromid	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
56-38-2	Ethylparathione; Parathion	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
51630-58-1	Fenvalerate	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
Various	Halogenated naphthalenes, including polychlorinated naphthalenes (PCNs)	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
76-44-8	Heptachlor	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
1024-57-3	Heptachloroepoxide	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
319-84-6	a-Hexachlorocyclohexane with & without Lindane	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
319-85-7	b-Hexachlorocyclohexane with & without Lindane	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
	g-Hexachlorocyclohexane with & without Lindane	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
118-74-1	Hexachlorobenzene	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
465-73-6	Isodrine	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
4234-79-1	Kelevane	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
143-50-0	Kepone	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
58-89-9	Lindane	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
121-75-5	Malathione	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
94-74-6	MCPA	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
94-81-5	МСРВ	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			

CAS No.	Substance	MUJI Limits  Component Materials in Finished	Potential Uses & Additional Information	Suitable Test Method	Reporting Limit	Revision		
		Product			results should be reported	20240205		
Appendix	Appendix C. Pesticides and Herbicides, Agricultural , continued							
93-65-2	Mecoprop	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
10265-92-6	Metamidophos	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
72-43-5	Methoxychlor	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
2385-85-5	Mirex	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
6923-22-4	Monocrotophos	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
298-00-0	Parathion-methyl	0.5 ppm	May be found in natural fibers, primarily cotton.	-All material: ISO 15913/DIN 38407 F2 or EPA 8081/EPA 8151A or -BVL L 00 00-34:2010-09	0.5 ppm			
1825-21-4	Pentachloroanisole	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
7786-34-7	Phosdrin/Mevinphos	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
72-56-0	Perthane	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
31218-83-4	Propethamphos	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
41198-08-7	Profenophos	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
13593-03-8	Quinalphos	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
82-68-8	Quintozene	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
8001-50-1	Strobane	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
297-78-9	Telodrine	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
8001-35-2	Toxaphene	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
731-27-1	Tolylfluanide	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			
1582-09-8	Trifluraline	0.5 ppm	May be found in natural fibers, primarily cotton.		0.5 ppm			

## **SECTION 2: OTHER LIMITS & RESTRICTIONS**

CAS No.	Restricted Substances List	Requirement
Various		Supplier must promptly notify Ryohin Keikaku if substances found on the the list are identified in materials or products.
Various	(SVHCs)/EU-REACH Substance of Very High Concern List https://www.echa.europa.eu/candidate-list-table	Ryohin Keikaku requests its suppliers to comply with the Substances of Very High Concern (SVHC) list based on REACH, the EU chemical substances regulation.  Supplier must promptly notify Ryohin Keikaku if any substance(s) in materials or products contain more than 0.1% (w/w).