



# H&M GROUP CHEMICAL RESTRICTIONS2025

## RESTRICTED SUBSTANCES LIST (RSL)



Hardline

Product Compliance

Valid for all brands in the H&M Group



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## General

H&M Group Chemical Restrictions consist of several parts regarding different product types; this document concerns Chemical Restrictions for Hardline.

An introduction to and general information about the H&M Group Chemical Restrictions are available in a separate document: *H&M Group Restricted Substance List (RSL) Introduction and Commitment - All Product Types, document ID 00432*. Please read that document and refer to the examples provided there, before proceeding with the product specific restrictions.

Each limit specified in this document is valid for homogeneous parts of the concerned product if not otherwise stated. Test methods are specified when relevant in this document. In case of undated test method, the latest version is valid.

## Definitions

Concentration Limit	The substance must not be present in the product at concentrations above this limit.
Not Detected	The substance must not be present in the finished product at concentrations above the analytical reporting limit.
Usage ban	The substance must not be used in production and it must not be added to the product. <sup>1</sup>
Homogeneous	Uniform composition throughout, i.e. a material that cannot be mechanically disjointed into different materials.
Hardline	All hard interior/decoration products like e.g. candle holder, pot, vase, soap dispenser, hook, etc. Also other products like tents, pen holder, tape holder.
Substances defined as hazardous due to intrinsic properties.	Persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), carcinogenic, mutagenic and toxic for reproduction (CMR), endocrine disruptors (ED) or equivalent concern.

## Abbreviations

CAS no	Chemical Abstracts Service number, an identification number for chemicals in this database.
CFR	Code of Federal Regulations
ppm	Parts per million, which is the same as mg/kg.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SVHC	Substances of Very High Concern

<sup>1</sup> Impurities at low concentrations of these substances may be accepted only if technically unavoidable due to e.g. raw materials, formation in the manufacturing process, storage or packaging.

## Requirements – All Materials

<b>All materials</b>				
<b>Requirement</b>	<b>CAS no</b>	<b>Limit/ Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
<b>Biocidal compounds</b>	Various	Are not allowed to be used without approval by H&M Group	Input control	N/A
<b>Flame retardants<sup>2</sup></b>				
Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7	Not detected	EN ISO 17881-2	5 ppm
Tris(1,3-dichloroisopropyl)phosphate (TDCPP)	13674-87-8			
Trixylyl phosphate (TXP)	25155-23-1			
Tris-(aziridinyl)-phosphine oxide (TEPA)	545-55-1			
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8			
Bis(2,3-dibromopropyl)phosphate (BDBPP)	5412-25-9			
Tri-o-cresyl phosphate	78-30-8			
Tris(1-chloro-2-propyl)phosphate (TCPP)	13674-84-5			
Triphenyl phosphate (TPhP)	115-86-6			
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Not detected	EN ISO 17881-1	5 ppm
Hexabromocyclododecane (HBCDD)	3194-55-6 25637-99-4, 134237-50-6, 134237-51-7, 134237-52-8			
Decabromodiphenyl ether (DecaBDE)	1163-19-5			
Octabromodiphenyl ether (OctaBDE)	32536-52-0			
Pentabromodiphenyl ether (PentaBDE)	32534-81-9			
Tetrabromobisphenol A (TBBP A)	79-94-7			
Polybrominated Diphenyl Ethers (PBDE)	Various			
Polybrominated Biphenyls (PBB)	Various			

<sup>2</sup> H&M Global Product Compliance Department must approve the usage of flame retardant on any kind of product. Contact your local production office.

<b>All materials</b>				
<b>Requirement</b>	<b>CAS no</b>	<b>Limit/ Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
Decabromodiphenyl ethane (DBDPE)	84852-53-9			
<b>Lead (Pb)</b>	7439-92-1	90 ppm <sup>3</sup>	Metal Products: CPSC-CH-E1001-08.3	1 ppm
			Non-metal Products: CPSC-CH-E1002-08.3	1 ppm
<b>Nanomaterials</b> "Nanomaterial" means a natural, incidental or manufactured material consisting of solid particles that are present, either on their own or as identifiable constituent particles in aggregates or agglomerates, and where 50 % or more of these particles in the number-based size distribution fulfil at least one of the following conditions:(a) one or more external dimensions of the particle are in the size range 1 nm to 100 nm;(b) the particle has an elongated shape, such as a rod, fibre or tube, where two external dimensions are smaller than 1 nm and the other dimension is larger than 100 nm;(c) the particle has a plate-like shape, where one external dimension is smaller than 1 nm and the other dimensions are larger than 100 nm. <sup>4</sup>	Various	Usage ban <sup>5</sup>	Input control	N/A
<b>Perfluorinated Compounds (PFCs)</b>				
Perfluorobutane Sulfonate (PFBS)	29420-49-3	Not detected	ISO 23702-1 / EN 17681-1&2	1 ppm
Perfluorohexane Sulfonate (PFHxS)	3871-99-6			
Perfluoroheptane Sulfonate (PFHpS)	375-92-8			
Perfluorooctane Sulfonate (PFOS)	56773-42-3			
Perfluorodecane Sulfonate (PFDS)	126105-34-8			
Perfluorooctane Sulfonamide (PFOSA) 1H,1H,2H,2H H4PFOS; 6:2	754-91-6			
Perfluorobutane Acid (PFBA)	375-22-4			

<sup>3</sup> Other limits apply if otherwise stated in this document for respective material.

<sup>4</sup> European commission recommendation on the definition of nanomaterial ((2022/C 229/01), Official Journal of the European Union, 14.06.2022.

<sup>5</sup> The substance(s) must not be used in production and must not be added to the product

<b>All materials</b>				
<b>Requirement</b>	<b>CAS no</b>	<b>Limit/ Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
Perfluoropentane Acid (PFPA)	2706-90-3			
Perfluorohexane Acid (PFHxA)	307-24-4			
Perfluoroheptane Acid (PFHpA)	375-85-9			
Perfluorooctanoic Acid (PFOA)	335-67-1			
Perfluorononane Acid (PFNA)	375-95-1			
Perfluorodecane Acid (PFDA)	335-76-2			
Perfluoroundecanoic Acid (PFUnA)	4234-23-5			
Perfluorododecanoic Acid (PFDoA)	307-55-1			
Perfluorotridecanoic Acid (PFTrA)	72629-94-8			
Perfluorotetradecanoic Acid (PFTeA)	376-06-7			
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6			
7H-Dodecafluoroheptane Acid (HPFHpA)	-			
2H,2H-perfluorodecane Acid (H2PFDA)	-			
2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnA)	34598-33-9			
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6			
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9			
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5			
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2			
1H,1H,2H,2H-Perfluoro-1-oktanol (6:2 FTOH)	647-42-7			
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7			
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1			
2-(N-methylperfluoro-FASE 1 octanesulfonamido)-ethanol (MeFOSE)	24448-09-7			
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2			
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8			
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2			
All other Perfluorinated or Polyfluorinated compounds (fully or partially fluorinated compounds)	Various			



<b>All materials</b>				
<b>Requirement</b>	<b>CAS no</b>	<b>Limit/ Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
<b>Polyvinylchloride (PVC)</b> and similar chlorinated polymers, e.g.				
Polyvinylchloride (PVC)	9002-86-2	Not detected	Beilstein's test and infrared spectroscopy (IR) with or without chemical separation	Qualitative
Polyvinylidenchloride	9002-85-1			
Polychloroprene	9010-98-4			
<b>Organotin Compounds</b>				
Dibutyltin (DBT)	1002-53-5	1 ppm	CEN ISO/TS 16179	0.05 ppm  For High matrix samples (silicone & rubber): 0.5 ppm
Diocetyl tin (DOT)	94410-05-6	1 ppm		
Tributyltin (TBT)	56573-85-4	Sum = Not detected		
Tricyclohexyltin (TCyHT)	6056-50-4			
Triocetyl tin (TOT)	250252-89-2			
Triphenyltin (TPhT)	668-34-8			
Other not listed trisubstituted organotins	Various	Sum < 1 ppm		
<b>Polyaromatic Hydrocarbons (PAH)</b>				
Benzo[a]anthracene	56-55-3	< 1 ppm	AfPS GS 2019	0.2 ppm
Benzo[a]pyrene	50-32-8	< 1 ppm		
Benzo[b]fluoranthene	205-99-2	< 1 ppm		
Benzo[e]pyrene	192-97-2	< 1 ppm		
Benzo(g,h,i)perylene	191-24-2	< 1 ppm		
Benzo[j]fluoranthene	205-82-3	< 1 ppm		
Benzo[k]fluoranthene	207-08-9	< 1 ppm		
Chrysene	218-01-9	< 1 ppm		
Dibenzo[a,h]anthracene	53-70-3	< 1 ppm		
Indeno(1,2,3-c,d)pyrene	193-39-5	< 1 ppm		
Acenaphthene	83-32-9	Sum < 10 ppm		
Acenaphthylene	208-96-8			
Anthracene	120-12-7			
Fluoranthene	206-44-0			
Fluorene	86-73-7			
Phenanthrene	85-01-8			
Pyrene	129-00-0			
Naphthalene	91-20-3			
<b>Sum of 18 PAH</b>		< 10 ppm		
<b>Polymers</b>				
Polycarbonate (PC)	80-05-7	Usage ban will come into force OPD Feb 1 <sup>st</sup> 2030. Applies to both virgin and recycled material.	Input control	N/A

<b>All materials</b>				
<b>Requirement</b>	<b>CAS no</b>	<b>Limit/ Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
Polystyrene (PS) Expanded Polystyrene (EPS) High Impact Polystyrene (HIPS)	9003-53-6, 9003-55-8, etc.	Usage ban will come into force OPD Feb 1 <sup>st</sup> 2030. Applies to both virgin and recycled material.	Input control	N/A
Styrene-based Thermoplastic Rubber (TPR) Styrene-based Thermoplastic Elastomer (TPE)	Various	Usage ban will come into force OPD Feb 1 <sup>st</sup> 2030. Applies to both virgin and recycled material.	Input control	N/A
Acrylonitrile Styrene/Styrene Acrylonitrile (AS/SAN)	Various	Usage ban will come into force OPD Feb 1 <sup>st</sup> 2030. Applies to both virgin and recycled material.	Input control	N/A
<b>SVHC</b> Check the ECHA website for the updated Candidate List of Substances of Very High Concern for Authorisation <sup>6</sup>		1000 ppm in each homogenous part of the product, except if lower limit applies as per other parts of this document.	Combined Screening using ICP-MS, GC-MS and LC-TOF	
<b>Substances defined as hazardous due to intrinsic properties</b> Criteria for hazardous as defined in REACH Article 57 <sup>7</sup>		1000 ppm, except if lower limit applies as per other parts of this document.		

<sup>6</sup> [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

<sup>7</sup> REACH Regulation (EC) No 1907/2006 <http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02006R1907-20150601&from=EN>



## Surface coating, Surface treatment & Adhesives

<b>Surface coating, Surface treatment &amp; Adhesives</b>				
<b>Requirement</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
<b>Chromium VI</b>	7440-47-3	Not detected	EN ISO 17075	3 ppm
<b>Chloroparaffins</b>				
Short chained chloroparaffins (SCCPs) C10-C13	85535-84-8	1000 ppm (in each homogenous part)	ISO 22818	30 ppm
<b>Formaldehyde</b> Shall not be added to the surface coating of the product or be formed during curing	50-00-0	Usage ban	ISO 14184-1	16 ppm
<b>Isocyanates</b>				
Diphenylmethane diisocyanate (MDI)	101-68-8	Not detected, sum of listed isocyanates	ISO 10283	3 ppm
Hexamethylene diisocyanate (HMDI)	822-06-0			
Isophorone diisocyanate (IPDI)	4098-71-9			
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9			
2,4-Toluene diisocyanate (2,4 TDI)	584-84-9			
2,6-Toluene diisocyanate (2,6 TDI)	91-08-7			
<b>Metals, Total Amount</b>				
Cadmium (Cd)	7440-43-9	100 ppm	EN 16711-1/EN 14602	1 ppm
Mercury (Hg)	7439-97-6	0.5 ppm		0.1 ppm
Lead (Pb)	7439-92-1	90 ppm	CPSC-CH-E1003-09.1	1 ppm
<b>Phthalates</b>				
Butyl benzyl phthalate (BBP)	85-68-7	500 ppm	CPSC-CH-C1001-09.3	50 ppm
Dibutyl phthalate (DBP)	84-74-2	500 ppm		
Diethyl phthalate (DEP)	84-66-2	500 ppm		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	500 ppm		
Diisobutyl phthalate (DIBP)	84-69-5	500 ppm		
Diisodecyl phthalate (DIDP)	26761-40-0	500 ppm		
Diisononyl phthalate (DINP)	28553-12-0	500 ppm		
Di-n-hexyl phthalate (DnHP)	84-75-3	500 ppm		
Di-n-octyl phthalate (DnOP)	117-84-0	500 ppm		

<b>Surface coating, Surface treatment &amp; Adhesives</b>				
<b>Requirement</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
All other phthalates (all other esters of o-phthalic acid)	Various	500 ppm		
Sum of phthalates		≤ 1000 ppm		
<b>Triglycidyl isocyanurate (TGIC)</b>	2451-62-9	Powder coating shall not contain hardener.	Self-declaration	

## Metal

<b>Metal</b>				
<b>Requirement</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
<b>Total metal</b>				
Cadmium (Cd)	7440-43-9	100 ppm	EN 16711-1	10 ppm
Lead (Pb):	7439-92-1			10 ppm
Products for adults		300 ppm		
Products for children <sup>8</sup>		90 ppm		
Mercury (Hg)	7439-97-6	0.5 ppm		0.1 ppm
<b>Nickel (Ni), Extractable Amount</b>				
In metal products or parts of products in direct and prolonged skin contact	7440-02-0	Maximum release: 0.5 µg/cm <sup>2</sup> /week	Nickel release by EN 1811 Abrasion of coated items by EN 12472	0.05 µg/cm <sup>2</sup> /week

<sup>8</sup> Products for children up to 12 years of age

## Plastic & Rubber including Foam

<b>Plastic &amp; Rubber including Foam</b>				
<b>Restricted substance</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
<b>Bisphenol A in Polycarbonate (PC), Extractable Amount</b>	80-05-7	3 ppm	Extractable Amount: Extraction with artificial sweat solution (ISO 105 E04) and BPA Determination by LC-MS	0.1 ppm
<b>Chlorofluorocarbons (CFCs), Hydrochlorofluorocarbons (HCFCs)</b>	Various	Usage ban	Self declaration	-
<b>Chlorophenols</b>				
Pentachlorophenol (PCP) and its salts and esters	Various, e.g. 87-86-5	Sum < 0.5 ppm	EN 17134-2	0.05 ppm
Tetrachlorophenol (TeCP) and its salts and esters	Various, e.g. 58-90-2	Sum < 0.5 ppm		0.05 ppm
<b>Chloroparaffins</b>				
Short chained chloroparaffins (SCCPs) C10-C13	85535-84-8	1000 ppm (in each homogenous part)	ISO 22818	30 ppm
<b>Dimethylformamide (DMFa)</b>	68-12-2	For products and in production process: General usage ban	EN 17131	5 ppm
<b>Isocyanates</b>				
Diphenylmethane diisocyanate (MDI)	101-68-8	Not detected	ISO 10283	3 ppm
Hexamethylene diisocyanate (HMDI)	822-06-0			
Isophorone diisocyanate (IPDI)	4098-71-9			
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9			
2,4-Toluene diisocyanate (2,4 TDI)	584-84-9			
2,6-Toluene diisocyanate (2,6 TDI)	91-08-7			
<b>Metals, Total Amount</b>				
Cadmium (Cd)	7440-43-9	100 ppm	EN 14602 and EN 16711-1	1 ppm
Mercury (Hg)	7439-97-6	0.5 ppm		0.1 ppm
<b>Phthalates</b>				
Butyl benzyl phthalate (BBP)	85-68-7	500 ppm	CPSC-CH-C1001-09.3	50 ppm
Dibutyl phthalate (DBP)	84-74-2	500 ppm		
Diethyl phthalate (DEP)	84-66-2	500 ppm		

<b>Plastic &amp; Rubber including Foam</b>				
<b>Restricted substance</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	500 ppm		
Diisobutyl phthalate (DIBP)	84-69-5	500 ppm		
Diisodecyl phthalate (DIDP)	26761-40-0	500 ppm		
Diisononyl phthalate (DINP)	28553-12-0	500 ppm		
Di-n-hexyl phthalate (DnHP)	84-75-3	500 ppm		
Di-n-octyl phthalate (DnOP)	117-84-0	500 ppm		
All other phthalates (all other esters of o-phthalic acid)	Various	500 ppm		
Sum of phthalates		≤ 1000 ppm		
<b>Polychlorinated Biphenyls (PCB)</b>	1336-36-3	The sum < 0.5 ppm	Solvent extraction and analysis by GC-MS	0.1 ppm
<b>Polychlorinated Triphenyls (PCT)</b>	61788-33-8			0.1 ppm

## Paper & Board

<b>Paper &amp; Board</b>				
<b>Restricted substance</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
<b>Alkylphenol Ethoxylates / Alkylphenols (APEO/AP)</b>				
Nonylphenol Ethoxylates (NPE)	Various	100 ppm	ISO 18254-1	20 ppm
Octylphenol Ethoxylates (OPE)	Various	100 ppm		
Nonylphenol (NP)	Various	Not detected	ISO 21084	5 ppm
Octylphenol (OP)	Various	Not detected		
<b>Azo dyes and pigments – releasing following amines</b>				
4-aminodiphenyl	92-67-1	20 ppm per listed amine	ISO 14362-1 (EN ISO 14362-3 determination of 4-aminoazobenzene)	10 ppm
Benzidine	92-87-5			
4-Chloro-o-toluidine	95-69-2			
2-Naphthylamine	91-59-8			
o-Aminoazotoluene	97-56-3			
2-Amino-4-nitrotoluene	99-55-8			
2,4-Diaminoanisole	615-05-4			
4,4'-Diaminodiphenylmethane	101-77-9			
3,3'-Dichlorobenzidine	91-94-1			

<b>Paper &amp; Board</b>				
<b>Restricted substance</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4			
3,3'-Dimethylbenzidine (o-Tolidine)	119-93-7			
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0			
p-Chloroaniline	106-47-8			
p-Cresidine	120-71-8			
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4			
4,4'-Oxydianiline	101-80-4			
4,4'-Thiodianiline	139-65-1			
2,4-Toluediamine	95-80-7			
o-Toluidine	95-53-4			
2,4,5-Trimethylaniline	137-17-7			
o-Anisidine	90-04-0			
p-Aminoazobenzene	60-09-3			
2,4-Xylidine	95-68-1			
2,6-Xylidine	87-62-7			
<b>Elemental chlorine bleach</b>		Usage ban	Self declaration	
<b>Formaldehyde</b>	50-00-0	75 ppm	EN 645 and EN 1541	5 ppm
<b>Pentachlorophenol and its salts and esters (PCP)</b>	Various, e.g. 87-86-5	Sum < 0.5 ppm	EN 17134-2	0.5 ppm

## Bamboo, Wood, Wood Based Materials and Straw

<b>Bamboo, Wood, Wood-based materials &amp; Straw</b>				
<b>Restricted substance</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
<b>Formaldehyde</b>				
In all wood based products	50-00-0	75 ppm	According to REACH Annex XVII	20 ppm
Composite wood		Composite wood products <sup>9</sup> must comply with TSCA Title VI	ASTM E1333 ASTM D6007	-

<sup>9</sup> Hardwood, plywood, particleboard, medium density fiberboard, thin medium density fiberboard (thickness ≤ 8mm), and also furniture and other finished products made with composite wood products

<b>Bamboo, Wood, Wood-based materials &amp; Straw</b>				
<b>Restricted substance</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
<b>Lindane</b>	58-89-9	Not detected	U.S. EPA Method 8081a, 8151a, 8141a and 8270c or Analysis of organochloro pesticides by GC-MS or LC-MS	0.05
<b>Pentachlorophenol and its salt and esters (PCP)</b>	Various, e.g. 87-86-5	0.5 ppm	CEN/TR 14823	0.5 ppm
<b>Wood preservatives</b>	-	Cannot be used without approval by H&M group <sup>10</sup>	Self declaration	-

**Terracotta, Enamel, Concrete, Soapstone<sup>11</sup>, Marble<sup>12</sup>, Ceramic, Porcelain, Glass & Crystal**

<b>Terracotta, Enamel, Concrete, Soapstone, Marble, Ceramic, Porcelain, Glass &amp; Crystal</b>				
<b>Restricted substance</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
<b>Cadmium (Cd)</b>	7440-43-9	40 ppm	Total digestion and analyze with ICPAES/ICPMS.	1 ppm
<b>Mercury (Hg)</b>	7439-97-6	2.5 ppm	Total digestion, analysis by ICP-MS.  Using HF in silica-based pigments are encountered.	1 ppm
<b>Arsenic (As)</b>	7440-38-2	100 ppm	EN 16711-1, analysis by ICP-MS	

<sup>10</sup> Please contact your local production office.

<sup>11</sup> It is important to ascertain the region of mining for soapstone as it can contain asbestos depending on where it is originated.

<sup>12</sup> It is important to ascertain the region of mining for marble as it can contain heavy metals depending on where it is originated.