## Banned Substances

• What are banned substances?

Chemical substances whose manufacture, use, etc. are prohibited by environmental laws and regulations. Depending on the application, use may be permitted.

- © Substances listed are treated as "no intentional inclusion" but may be exempted by meeting specified conditions.
- © If there are threshold values according to various laws and regulations, the minimum value among the threshold values specified for each condition is used.
- The percentage of ingredients contained is confirmed by chemSHERPA.
- For substances that have not yet been chemSHERPA compliant or have not yet been applied under the promulgated laws and regulations, please cooperate with us by submitting a written pledge.
  - © Even for chemSHERPA-compliant substances, we may ask you to submit a written pledge for certain reasons.
- 1. Japanese domestic laws and regulations
- (1) Industrial Safety and Health Law Manufacturing prohibited substances (Article 55 of the Law, Article 16 of the Enforcement Order)

Industrial Safety and Health Act

https://elaws.e-gov.go.jp/document?lawid=347AC0000000057(Japanese)

https://www.japaneselawtranslation.go.jp/ja/laws/view/3440 (For reference only, as it may not be the latest version.)
Order for Enforcement of Industrial Safety and Health Act

https://elaws.e-gov.go.jp/document?lawid=347C00000000318\_20230118\_505C00000000008(Japanese)

https://www.japaneselawtranslation.go.jp/ja/laws/view/3817(For reference only, as it may not be the latest version.)

No.		Substance name	CA No.	Threshold (ppm)	Related laws and regulations
1a	1	Yellow phosphorusmatch	_		Industrial Safety
1a	2	Benzidine and its salts	92-87-5 (Typical)		and Health Act
1a	3	4-aminodiphenyl and its salts	92-67-1 (Typical)		
1a	4	Asbestos <u>%1</u>	Banned-1	1000	
1a	5	4-nitrodiphenol and its salts	92-93-3 (Typical)		
1a	6	bis (chloromethyl) ether	542-88-1		
1a	7	beta-naphthylamine and its salts	91-59-8 (Typical)		
1a	8	Gum containing benzene, in which the volume of contained benzene exceeds 5 $\%$ of the solvent (including diluents) of the gum	-		

X1: Among natural minerals, a non-asbestos certificate or other documentation must be submitted for bluesite, vermiculite, talc, mica, and wollastonite.

### (2) Chemical Investigation Law (Class I)

Act on the Regulation of Manufacture and Evaluation of Chemical Substances

https://www.meti.go.jp/policy/chemical\_management/kasinhou/files/about/laws/laws\_r03060110.pdf (Japanese)
https://www.japaneselawtranslation.go.jp/ja/laws/view/3350 (For reference only, as it may not be the latest version.)
Order for Enforcement of the Act on the Regulation of Manufacture and Evaluation of Chemical Substances

https://www.meti.go.jp/policy/chemical management/kasinhou/files/about/laws/laws r03102220.pdf(Japanese)

https://www.japaneselawtranslation.go.jp/ja/laws/view/3455(For reference only, as it may not be the latest version.)

## Class I Specified Chemical Substance List

No.	Substance name		
1	Polychlorinated biphenyls	June 10, 1974	
2	Polychlorinated naphthalenes (limited to those containing two or more chlorine atoms)	August 20, 1979 ( <b>※</b> 1)	
3	Hexachlorobenzene		
4	1, 2, 3, 4, 10, 10-hexachloro-1, 4, 4a, 5, 8, 8a-hexahydro-exo-1, 4-endo-5, 8-dimethanonaphthalene (also known as aldrin; referred to as "aldrin" in row (iii) of the table in Article 7)		
5	1, 2, 3, 4, 10, 10-hexachloro-6, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-exo-1, 4-endo-5, 8-dimethanonaphthalene (also known as dieldrin; referred to as "dieldrin" in row (iv) of the table in Article 7)		
6	1, 2, 3, 4, 10, 10-hexachloro-6, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-endo-1, 4-endo-5, 8-dimethanonaphthalene (also known as endrin)	October 12, 1981	
7	1, 1, 1-trichloro-2, 2-bis (4-chlorophenyl) ethane (also known as DDT; referred to as "DDT" in row (iii) of the table in Article 7)		
8	1, 2, 4, 5, 6, 7, 8, 8-octachloro-2, 3, 3a, 4, 7, 7a-hexahydro-4, 7-methano-1H-indene, 1, 4, 5, 6, 7, 8, 8-heptachloro-3a, 4, 7, 7a-tetrahydro-4, 7-methano-1H-indene and their analogous compounds (also known as chlordane or heptachlor; referred to as "chlordanes" in row (v) of the table in Article 7)	September 17, 1986	
9	Bis (tributyltin) oxide	January 6, 1990	
10	N. N'-ditolyl-p-phenylenediamine. N-tolyl-N'-xylyl-p-phenylenediamine. or N. N'-dixylyl-p-phenylenediamine	Ianuary 6 2001	

11	2, 4, 6-tri-tert-butylphenol		
12	Polychloro-2, 2-dimethyl-3-methylidenebicyclo [2. 2. 1] heptane (also known as toxaphene)	0	
13	Dodecachloropentacyclo [5. 3. 0. 0. 0. 0] decane (also known as mirex; referred to as "mirex" in row (ix) of the table in Article 7)	September 4, 2002	
14	2, 2, 2-trichloro-1-(2-chlorophenyl)-1-(4-chlorophenyl) ethanol, or 2, 2, 2-trichloro-1, 1-bis (4-chlorophenyl) ethanol (also known as kelthane or dicofol)	April 平成 17 年 4 月 1 日	
15	Hexachlorobuta-1, 3-diene	(*2)	
16	2-(2H-1, 2, 3-benzotriazol-2-yl)-4, 6-di-tert-butylphenol	November 10, 2007	
17	Perfluoro (octane-1-sulfonic acid) (also known as PFOS; hereinafter referred to as "PFOS") or its salts		
18	Perfluoro (octane-1-sulfonyl) =fluoride (also known as PFOSF)		
19	Pentachlorobenzene		
20	r-1, c-2, t-3, c-4, t-5, t-6-hexachlorocyclohexane (also known as alpha- hexachlorocyclohexane)		
21	r-1, t-2, c-3, t-4, c-5, t-6-hexachlorocyclohexane (also known as beta- hexachlorocyclohexane)		
22	r-1, c-2, t-3, c-4, c-5, t-6-hexachlorocyclohexane (also known as gamma- hexachlorocyclohexane)		
23	Decachloropentacyclo [5. 3. 0. 0(2, 6). 0(3, 9). 0(4, 8)] decan-5-one (also known as chlordecone)		
24	Hexabromobiphenyl		
25	Tetrabromo (phenoxybenzene) (also known as tetrabromodiphenyl ether; referred to as "tetrabromodiphenyl ether" in row (xii) of the table in Article 7)		
26	Pentabromo (phenoxybenzene) (also known as pentabromodiphenyl ether; referred to as "pentabromodiphenyl ether" in row (xiii) of the table in Article 7)		
27	Hexabromo (phenoxybenzene) (also known as hexabromodiphenyl ether)		
28	Heptabromo (phenoxybenzene) (also known as heptabromodiphenyl ether)		
29	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide (also known as endosulfan or benzoepin)		
30	Hexabromocyclododecane	May 1, 2014	
31	Pentachlorophenol or its salts or esters	April 1, 2016	
32	Polychlorinated normal paraffin (limited those in which the carbon number is 10 through 13 and the content of chlorine is more than 48% of the total weight)		
33	1, l'-oxybis (2, 3, 4, 5, 6-pentabromobenzene) (also known as decabromodiphenyl ether)	April 1, 2018	
34	Perfluorooctanoic acid (PFOA) and its salts	October 22, 2021	

<sup>₩ 1 :</sup> The designation date for polychlorinated naphthalenes with a chlorine number of 2 is April 1, 2016.

# 2. Europe/Americas(1) RoHS restricted substances (Annex II)

# RoHS Directive

https://environment.ec.europa.eu/topics/waste-and-recycling/rohs-directive\_en

Restricted substances (Annex II) <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32015L0863">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32015L0863</a>

No.	物質名	閾値	運用開始日(カテゴリ―9)
1	Cadmium (Cd)	0.01wt%	
2	Lead (Pb)	0.1wt%	
3	Mercury (Hg)	0.1wt%	
4	Hexavalent chromium (Cr6+)	0.1wt%	
5	Polybrominated biphenyls (PBB)	0.1wt%	July 22, 2019
6	Polybrominated diphenyl ethers (PBDE)	0.1wt%	(※1)
7	Bis (2-ethylhexyl) phthalate (DEHP)	0.1wt%	
8	Butyl benzyl phthalate (BBP)	0.1wt%	
9	Dibutyl phthalate (DBP)	0.1wt%	
10	Dibutyl phthalate (DIBP)	0.1wt%	

X1: Applicable date for this case of RoHS 2 Directive; promulgated in June 2015 as 4 additional restricted substances (10 in total).

<sup>№ 2 :</sup> The designation date of 2,2,2-trichloro-1-(2-chlorophenyl)-1-(4-chlorophenyl) ethanol is October 22, 2021.

# (2) Substances restricted under REACH (Annex XVII) <a href="https://echa.europa.eu/substances-restricted-under-reach">https://echa.europa.eu/substances-restricted-under-reach</a>

No.	CA No.	Substance name	Conditions of restriction	Conditions of derogation
	_	Polychlorinated terphenyls (PCTs)	Shall not be placed on the market, or used:	
1			- as substances,	
			- in mixtures, including waste oils, or in equipment, in concentrations greater than $50~\rm{mg/kg}$ (0,005 % by weight).	
	75-01-4	Chloroethene (vinyl chloride)	Shall not be used as propellant in aerosols for any use.	
2			Aerosols dispensers containing the substance as propellant shall not be placed on the market.	
		Liquid substances or mixtures fulfilling the	1. Shall not be used in:	Paragraph 4 shall not apply to:
				If they conform to the European Standard on Decorative oil lamps
		categories set out in Annex I to Regulation (EC) No	phases, for example in ornamental lamps and ashtrays,	(EN 14059) adopted by the European Committee for
		1272/2008:"	2. Articles not complying with paragraph 1 shall not be placed on the market.	Stand-ardisation (CEN)."
			3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:	
0		and 2, 2.14 categories 1 and 2,	- can be used as fuel in decorative oil lamps for supply to the general public, and	
3		2.15 types A to F;	- present an aspiration hazard and are labelled with H304.	
			4. Decorative oil lamps for supply to the general public shall not be placed on the	
		on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and	market"	
		3. 10;		
		(c) hazard class 4.1;		
	71 49 0	(d) hazard class 5.1.	1 Ch-11 mak ha washin kasa ang saka Cara at a saka saka saka saka saka saka sak	Dans much 2 shall not and t
	71-43-2	Benzene	1. Shall not be used in toys or parts of toys where the concentration of benzene in the free state is greater than 5 mg/kg (0,0005 %) of the weight of the toy or part of toy.	
			2. Toys and parts of toys not complying with paragraph 1 shall not be placed on the	
5			market.	allowing for the emission of benzene in quantities in excess of
			3. Shall not be placed on the market, or used, - as a substance.	those laid down in existing legislation; (c) natural gas placed on the market for use by consumers, provided
			as a constituent of other substances, or in mixtures, in concentrations equal to, or	
			greater than 0,1 % by weight.	volume/volume.
	12001-28-4	Asbestos fibres	1. The manufacture, placing on the market and use of these fibres and of articles and	
	12172-73-5 77536-67-5	(a) Crocidolite (b) Amosite	mixtures containing these fibres added intentionally is prohibited.	paragraph 1 which were already installed and/or in service before 1 January 2005 shall continue to be permitted until they are
G	77536-66-4	(c) Anthophyllite		disposed of or reach the end of their service life. However,
	77536-68-6	(d) Actinolite		Member States may, for reasons of protection of human health,
	12001-29-5 132207-32-0	(e) Tremolite (f) Chrysotile		restrict, prohibit or make subject to specific conditions, the use of such articles before they are disposed of or reach the end
	132201 32 0	(1) Chrysotile		of their service life.
	545-55-1	Tris (aziridinyl) phosphinoxide	1. Shall not be used in textile articles, such as garments, undergarments and linen,	
7			intended to come into contact with the skin.	
	59536-65-1	Polybromobiphenyls; Polybrominatedbiphenyls (PBB)	<ol> <li>Articles not complying with paragraph 1 shall not be placed on the market.</li> <li>Shall not be used in textile articles, such as garments, undergarments and linen,</li> </ol>	
8	00000 00 1	lory of omobipheny 13, Tory of omit nate do t pheny 13 (1 bb)	intended to come into contact with the skin.	
			2. Articles not complying with paragraph 1 shall not be placed on the market.	
(	68990-67-0	(a) Soap bark powder	1. Shall not be used, in jokes and hoaxes or in mixtures or articles intended to be	Paragraphs 1 and 2 shall not apply to stink bombs containing not
		(Quillaja saponaria) and its derivatives containing saponines	used as such, for instance as a constituent of sneezing powder and stink bombs. 2. Jokes and hoaxes, or mixtures or articles intended to be used as such, not	more than 1,5 ml of liquid.
			complying with paragraph 1 shall not be placed on the market.	
9		Helleborus niger		
ŭ		(c) Powder of the roots of Veratrum album and Veratrum nigrum		
Ģ	92-87-5	(d) Benzidine and/or its derivatives		
	552-89-6	(e) o-Nitrobenzaldehyde		
-	10195 70 1	(f) Wood powder	1 Chall and he would be delected by the state of the stat	Dans-marks 1 and 0 abs11 at 1 a
	12135-76-1 12124-99-1	(a) Ammonium sulphide (b) Ammonium hydrogen sulphide	1. Shall not be used, in jokes and hoaxes or in mixtures or articles intended to be used as such, for instance as a constituent of sneezing powder and stink bombs.	Paragraphs 1 and 2 shall not apply to stink bombs containing not more than 1,5 ml of liquid.
	9080-17-5	(c) Ammonium polysulphide	2. Jokes and hoaxes, or mixtures or articles intended to be used as such, not	,
			complying with paragraph 1 shall not be placed on the market.	
	06 22 2	Volatile esters of bromoacetic acids:	1. Shall not be used, in jokes and hoaxes or in mixtures or articles intended to be	Paragraphs 1 and 2 shall not apply to stink bombs containing not
	96-32-2 105-36-2	(a) Methyl bromoacetate (b) Ethyl bromoacetate	used as such, for instance as a constituent of sneezing powder and stink bombs. 2. Jokes and hoaxes, or mixtures or articles intended to be used as such, not	more than 1,5 ml of liquid.
	35223-80-4	(c) Propyl bromoacetate	complying with paragraph 1 shall not be placed on the market.	
	18991-98-5	(d) Butyl bromoacetate		
12	91-59-8	2-naphthylamine and its salts	Shall not be placed on the market, or used, as substances or in mixtures in concentrations greater than 0,1 % by weight.	
	92-87-5	Benzidine and its salts	Shall not be placed on the market, or used, as substances or in mixtures in	
13			priority not be proceed on the market, or used, as substances of the mixtures in	

14	92-93-3	4-Nitrobiphenyl	Shall not be placed on the market, or used, as substances or in mixtures in concentrations greater than 0,1 % by weight.	
15	92-67-1	4-Aminobiphenyl xenylamine and its salts	Shall not be placed on the market, or used, as substances or in mixtures in concentrations greater than 0,1 % by weight.	
16	598-63-0 1319-46-6	Lead carbonates: (a) Neutral anhydrous carbonate (PbCO3) (b) Trilead-bis(carbonate)-dihydroxide 2Pb CO3 Pb(OH)2	Shall not be placed on the market, or used, as substances or in mixtures, where the substance or mixture is intended for use as paint.	Member States may, in accordance with the provisions of International Labour Organization (ILO) Convention 13, permit the use on their territory of the substance or mixture, as well as the placing on the market for such use.
17	7446-14-2 15739-80-7	Lead sulphates: (a) PbS04 (b) Pbx S04	Shall not be placed on the market, or used, as substances or in mixtures, where the substance or mixture is intended for use as paint.	Member States may, in accordance with the provisions of International Labour Organization (ILO) Convention 13, permit the use on their territory of the substance or mixture, as well as the placing on the market for such use.
18	_	Mercury compounds	Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use:  (a) to prevent the fouling by micro-organisms, plants or animals of:  - the hulls of boats,  - cages, floats, nets and any other appliances or equipment used for fish or shellfish farming,  - any totally or partly submerged appliances or equipment;  (b) in the preservation of wood;  (c) in the impregnation of heavy-duty industrial textiles and yarn intended for their manufacture;  (d) in the treatment of industrial waters, irrespective of their use.	
18a	7439-97-6	Mercury	1. Shall not be placed on the market:  (a) in fever thermometers;  (b) in other measuring devices intended for sale to the general public (such as manometers, barometers, sphygmomanometers, thermometers other than fever thermometers).  2. The following mercury-containing measuring devices intended for industrial and profes- sional uses shall not be placed on the market after 10 April 2014:  (a) barometers;  (b) hygrometers;  (c) manometers;  (d) sphygmomanometers;  (e) strain gauges to be used with plethysmographs;  (f) tensiometers;  (g) thermometers and other non-electrical thermometric applications.  The restriction shall also apply to measuring devices under points (a) to (g) which are placed on the market empty if intended to be filled with mercury.  3. The following mercury-using measuring devices intended for professional and industrial uses shall not be placed on the market after 10 April 2014:  (a) mercury pycnometers;  (b) mercury metering devices for determination of the softening point.	the market of such measuring devices. The restriction in paragraph 1(b) shall not apply to: (a) measuring devices more than 50 years old on 3 October 2007; (b) barometers (except barometers within point (a)) until 3 October 2009.  The restriction in paragraph 2 shall not apply to: (a) sphygmomanometers to be used: (i) in epidemiological studies which are ongoing on 10 October 2012; (ii) as reference standards in clinical validation studies of mercury-free sphygmomanometers;

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19		the hulls of boats, - cages, floats, nets and any other appliances or equipment used for fish or shellfish farming, - any totally or partly submerged appliances or equipment.  2. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters, irrespective of their use.  3. Shall not be used in the preservation of wood. Furthermore, wood so treated shall not be placed on the market.  Treated wood referred to under derogation point (a) shall not be used: - in residential or domestic constructions, whatever the purpose, - in any application where there is a risk of repeated skin contact, - in marine waters, - for agricultural purposes other than for livestock fence posts and structural uses in accordance with point (b), - in any application where the treated wood may come into contact with intermediate or finished products intended for human and/or animal consumption.	Community before 30 September 2007, or that was placed on the market in accordance with paragraph 4 may remain in place and continue to be used until it reaches the end of its service life.  Wood treated with CCA type C that was in use in the Community before 30 September 2007, or that was placed on the market in accordance with paragraph 4:  — may be used or reused subject to the conditions pertaining to its use listed under points 4(b), (c) and (d),  — may be placed on the market subject to the conditions pertaining to its use listed under points 4(b), (c) and (d).  By way of derogation from paragraph 3:  (a) Relating to the substances and mixtures for the preservation of wood: these may only be used in industrial installations using vacuum or pressure to impregnate wood if they are solutions of inorganic compounds of the copper, chromium, arsenic (CCA) type C and if they are authorised in accordance with Article 5(1) of Directive 98/8/EC.  (b) Wood treated with CCA solution in accordance with point (a) may be placed on the market for professional and industrial use provided that the structural integrity of the wood is required for human or livestock safety and skin contact by the general public during its service life is unlikely.  Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that all treated wood placed on the market is individually labelled 'For professional and industrial installation and use only, contains arsenic'. In
			placing on the market that all treated wood placed on the market is individually labelled 'For professional and

Annex-A 5/33 (202211)

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20			plants or animals of: (a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes; (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming; (c) any totally or partly submerged appliance or equipment.  3. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.  4. Tri-substituted organostannic compounds: (a) Tri-substituted organostannic compounds such as tributyltin (TBT) compounds and triphenyltin (TPT) compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin. (b) Articles not complying with point 4(a) shall not be placed on the market after 1 July 2010.  5. Dibutyltin (DBT) compounds: (a) Dibutyltin (DBT) compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin. (b) Articles and mixtures not complying with point 5(a) shall not be placed on the market after 1 January 2012. (a) Dioctyltin (DOT) compounds shall not be used after 1 January 2012 in the following articles for supply to, or use by, the general public, where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin:  - textile articles intended to come into contact with the skin, - gloves, - footwear or part of footwear intended to come into contact with the skin, - wall and floor coverings, - childcare articles,	in the Community before 1 January 2010.
			9 /	
21		Di-μ-oxo-di-n-butylstanniohydroxyborane/Dibutyltin hydrogen borate C8H19B03Sn (DBB)	Shall not be placed on the market, or used, as a substance, or in mixtures in a concentration equal to, or greater than 0,1 % by weight.	Shall not apply to this substance (DBB) or mixtures containing it if these are intended solely for conversion into articles, among which this substance will no longer feature in a concentration equal to or greater than 0,1 %.
22 削 除	87–86–5		Shall not be placed on the market, or used, - as a substance, - as a constituent in other substances, or in mixtures, in a concentration equal to or greater than 0,1 % by weight.	

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	7440-43-9	Cadmium	1. Shall not be used in mixtures and articles produced from the following synthetic	By way of derogation, paragraph 1 shall not apply to articles
			organic polymers (hereafter referred to as plastic material): - polymers or copolymers of vinyl chloride (PVC)	placed on the market before 10 December 2011.
			- polymers of copolymers of vinyl chloride (rvc) - polymethane (PUR)	By way of derogation, paragraphs 1 and 2 shall not apply to
			- low-density polyethylene (LDPE), with the exception of low-density polyethylene	articles coloured with mixtures containing cadmium for safety
			used for the production of coloured masterbatch	reasons.
			- cellulose acetate (CA)	2 0 0 0 0 1 0 1
			- cellulose acetate butyrate (CAB)	By way of derogation, paragraph 1, second subparagraph shall
			- epoxy resins	not apply to:
			- melamine-formaldehyde (MF) resins	- mixtures produced from PVC waste, hereinafter referred to as
			- urea-formaldehyde (UF) resins	'recovered PVC',
			- unsaturated polyesters (UP)	- mixtures and articles containing recovered PVC if their
			- polyethylene terephthalate (PET) [3907 60]	concentration of cadmium (expressed as Cd metal) does not
			- polybutylene terephthalate (PBT)	exceed 0,1 % by weight of the plastic material in the following
			- transparent/general-purpose polystyrene [3903 11]	rigid PVC applications:
			- acrylonitrile methylmethacrylate (AMMA)	(a) profiles and rigid sheets for building applications;
			- cross-linked polyethylene (VPE)	(b) doors, windows, shutters, walls, blinds, fences, and roof
			- high-impact polystyrene - polypropylene (PP) [3902 10]	gutters; (c) decks and terraces;
			Mixtures and articles produced from plastic material as listed above shall not be	(d) cable ducts;
			placed on the market if the concentration of cadmium (expressed as Cd metal) is equal	(-,
			to or greater than 0,01 % by weight of the plastic material.	in the middle layer of a multilayer pipe and is entirely
			of of greater than 0,01% by weight of the plastic indecital.	covered with a layer of newly produced PVC in compliance with
				paragraph 1.
			2. Shall not be used or placed on the market in paints with codes [3208] [3209] in a	Suppliers shall ensure, before the placing on the market of
23			concentration (expressed as Cd metal) equal to or greater than 0,01 % by weight.	mixtures and articles containing recovered PVC for the first
			Painted articles shall not be placed on the market if the concentration of cadmium	time, that these are visibly, legibly and indelibly marked as
			(expressed as Cd metal) is equal to or greater than 0,1 % by weight of the paint on	follows: 'Contains recovered PVC' or with the pictogram.
			the painted article.	
				The restrictions in paragraphs 3 shall not apply to:
			3. Shall not be used for cadmium plating metallic articles or components of the	- articles and components of the articles used in the
			articles used in the following sectors/ applications:	aeronautical, aerospace, mining, offshore and nuclear sectors
			(a) equipment and machinery for food production, agriculture, cooling, freezing,	whose applications require high safety standards and in safety
			printing and book-binding	devices in road and agricultural vehicles, rolling stock and
			(b) equipment and machinery for the production of household goods, furniture,	vessels,
			sanitary ware, central heating and air conditioning plant	- electrical contacts in any sector of use, where that is
			(c) equipment and machinery for the production of paper, board, textiles and clothing	
			(d) equipment and machinery for the production of industrial handling equipment,	
			industrial handling machinery, road vehicles, agricultural vehicles, rolling stock and	By way of derogation, paragraph 4 shall not apply to brazing
			vessels.	fillers used in defence and aerospace applications and to
			4. Shall not be used in brazing fillers in concentration equal to or greater than 0,01 % by weight.	brazing fillers used for safety reasons.
			Brazing fillers shall not be placed on the market if the concentration of cadmium	orazing fiffors about for barovy rousons.
			(expressed as Cd metal) is equal to or greater than 0,01 % by weight.	By way of derogation, paragraph 5 shall not apply to articles
			5. Shall not be used or placed on the market if the concentration is equal to or	placed on the market before
			greater than 0,01 % by weight of the metal in:	10 December 2011 and jewellery more than 50 years old on 10
			(i) metal beads and other metal components for jewellery making;	December 2011.
			(ii) metal parts of jewellery and imitation jewellery articles and hair accessories,	
			including bracelets, necklaces, rings, piercing jewellery, wrist-watches, wrist-wear,	
			brooches and cufflinks.	
	76253-60-6	Monomethyl - tetrachlorodiphenyl methane	1. Shall not be placed on the market, or used, as a substance or in mixtures.	By way of derogation, paragraph 1 shall not apply:
		Trade name: UgilEC 141	Articles containing the substance shall not be placed on the market.	(a) in the case of plant and machinery already in service on 18
24				June 1994, until such plant and machinery is disposed of;
				(b) in the case of the maintenance of plant and machinery already
				in service within a Member State on 18 June 1994.
	_	Monomethyl-dichloro-diphenyl methane Trade name:	Shall not be placed on the market, or used, as a substance or in mixtures.	
25		UgilEC 121	Articles containing the substance shall not be placed on the market.	
		UgilEC 21		
	99688-47-8	Monomethyl-dibromo-diphenyl methane	Shall not be placed on the market, or used, as a substance or in mixtures.	
26	99688-47-8	Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene,	Shall not be placed on the market, or used, as a substance or in mixtures.  Articles containing the substance shall not be placed on the market.	

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	7440-02-0	Nickel	1. Shall not be used:	By way of derogation, point 1(a) shall not apply:
27	. 110 02 0	and its compounds	(a) in any post assemblies which are inserted into pierced ears and other pierced parts of the human body. (b) in articles intended to come into direct and prolonged contact with the skin such as:  - earrings, - necklaces, bracelets and chains, anklets, finger rings, - wrist-watch cases, watch straps and tighteners, - rivet buttons, tighteners, rivets, zippers and metal marks, when these are used in garments, if the rate of nickel release from the parts of these articles coming into direct and prolonged contact with the skin is greater than 0,5 $\mu$ g/cm2/week. (c) in articles referred to in point (b) where these have a non-nickel coating unless such coating is sufficient to ensure that the rate of nickel release from those parts of such articles coming into direct and prolonged contact with the skin will not exceed 0,5 $\mu$ g/cm2/week for a period of at least two years of normal use of the article.  2. Articles which are the subject of paragraph 1 shall not be placed on the market unless they conform to the requirements set out in that paragraph.	if the rate of nickel release from such post assemblies is less than 0,2 $\mu$ g/cm2/week (migration limit).
28	_	Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.	Shall not be placed on the market, or used, - as substances, - as constituents of other substances, or, - in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: - either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, - the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.	By way of derogation, shall not apply to:  (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;  (b) cosmetic products as defined by Directive 76/768/ EEC;  (c) the following fuels and oil products:  - motor fuels which are covered by Directive 98/70/EC,  - mineral oil products intended for use as fuel in mobile or fixed combustion plants,  - fuels sold in closed systems (e.g. liquid gas bottles);  (d) artists' paints covered by Regulation (EC) No 1272/2008;  (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date;  (f) devices covered by Regulation (EU) 2017/ 745.
29		Substances which are classified as germ cell mutagen category 1A or 1B in Part 3 of Annex VI to Regu-lation (EC) No 1272/2008 and are listed in Appendix 3 or Appendix 4, respectively.	- in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:  - either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,  - the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.	By way of derogation, shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/ EEC; (c) the following fuels and oil products: - motor fuels which are covered by Directive 98/70/EC, - mineral oil products intended for use as fuel in mobile or fixed combustion plants, - fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date; (f) devices covered by Regulation (EU) 2017/ 745.
30		Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.	- as constituents of other substances, or, - in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: - either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, - the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.	By way of derogation, shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/ EEC; (c) the following fuels and oil products: - motor fuels which are covered by Directive 98/70/EC, - mineral oil products intended for use as fuel in mobile or fixed combustion plants, - fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date; (f) devices covered by Regulation (EU) 2017/ 745.

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	8001-58-9	(a) Creosote; wash oil	1. Shall not be placed on the market, or used, as substances or in mixtures where	By way of derogation from paragraph 1:
	61789-28-4 84650-04-4	(b) Creosote oil; wash oil	the substance or mixture is intended for the treatment of wood. Furthermore, wood so	(a) The substances and mixtures may be used for wood treatment
	84000-04-4	(c) Distillates (coal tar), naphthalene oils;	treated shall not be placed on the market.	in industrial installations or by profes- sionals covered by
	90640-84-9	(d) Creosote oil, acenaphthene fraction; wash oil		Community legislation on the protection of workers for in situ
	65996-91-0	(e) Distillates (coal tar), upper; heavy	2. Treated wood referred to under derogation (b) shall not be used:	retreatment only if they contain:
	00000 01 0	anthracene oil	- inside buildings, whatever their purpose,	(i) benzo[a]pyrene at a concentration of less than 50 mg/kg
	90640-80-5	(f) Anthracene oil	in toys,	(0,005 % by weight), and
	65996-85-2	(g) Tar acids, coal, crude; crude phenols	- in playgrounds,	(ii) water extractable phenols at a concentration of less than
31	8021-39-4	(h) Creosote, wood	- in parks, gardens, and outdoor recreational and leisure facilities where there is a	3 % by weight.
	122384-78-5	(i) Low temperature tar oil, alkaline; extract		
		residues (coal), low temperature coal tar	risk of frequent skin contact,	(b) Wood treated in industrial installations or by
		alkaline	- in the manufacture of garden furniture such as picnic tables,	professionals according to subparagraph (a) which is placed on
			- for the manufacture and use and any re-treatment of:	the market for the first time or retreated in situ may be used
			- containers intended for growing purposes,	for professional and industrial use only, for example on
			- packaging that may come into contact with raw materials, intermediate or finished	railways, in electric power transmission and
			products destined for human and/or animal consumption,	telecommunications, for fencing, for agricultural purposes (for
			- other materials which may contaminate the articles mentioned above.	example stakes for tree support) and in harbours and waterways.
	67-66-3	Chloroform	Shall not be placed on the market, or used,	By way of derogation this provision shall not apply to:
	1		- as substances,	(a) medicinal or veterinary products as defined by Directive
			- as constituents of other substances, or in mixtures in	2001/82/EC and Directive 2001/83/EC;
32			concentrations equal to or greater than 0,1 % by weight,	(b) cosmetic products as defined by Directive 76/768/ EEC.
			where the substance or mixture is intended for supply to the general public and/or is	(a) cosmerce produces as acrimon by Bricocrite vo, voc, BBs.
			intended for diffusive applications such as in surface cleaning and cleaning of	
	70.00.5	1 1 0 7 : 11	fabrics.	
	79-00-5	1, 1, 2-Trichloroethane	Shall not be placed on the market, or used, - as substances.	By way of derogation this provision shall not apply to:
			- as constituents of other substances on in mixtures in	(a) medicinal or veterinary products as defined by Directive
34			concentrations equal to or greater than 0,1 % by weight,	2001/82/EC and Directive 2001/83/EC;
01			where the substance or mixture is intended for supply to the general public and/or is	(b) cosmetic products as defined by Directive 76/768/ EEC.
			intended for diffusive applications such as in surface cleaning and cleaning of	
			fabrics.	
	79-34-5	1, 1, 2, 2-Tetrachloroethane	Shall not be placed on the market, or used,	By way of derogation this provision shall not apply to:
			- as substances,	(a) medicinal or veterinary products as defined by Directive
			- as constituents of other substances, or in mixtures in	2001/82/EC and Directive 2001/83/EC;
35			concentrations equal to or greater than 0,1% by weight,	(b) cosmetic products as defined by Directive 76/768/ EEC.
			where the substance or mixture is intended for supply to the general public and/or is	(b) cosmette products as defined by birective to, roo, bbc.
			intended for diffusive applications such as in surface cleaning and cleaning of	
	620.20.6	1 1 1 0 T-4	fabrics.	
	630-20-6	1, 1, 1, 2-Tetrachloroethane	Shall not be placed on the market, or used,	By way of derogation this provision shall not apply to:
			- as substances,	(a) medicinal or veterinary products as defined by Directive
36			- as constituents of other substances, or in mixtures in concentrations equal to or greater than 0,1 % by weight,	2001/82/EC and Directive 2001/83/EC;
30			where the substance or mixture is intended for supply to the general public and/or is	(b) cosmetic products as defined by Directive 76/768/ EEC.
			intended for diffusive applications such as in surface cleaning and cleaning of	
			fabrics.	
	76-01-7	Pentachloroethane	Shall not be placed on the market, or used,	By way of derogation this provision shall not apply to:
		1	- as substances,	(a) medicinal or veterinary products as defined by Directive
			- as constituents of other substances, or in mixtures in	2001/82/EC and Directive 2001/83/EC;
37			concentrations equal to or greater than 0,1 % by weight,	(b) cosmetic products as defined by Directive 76/768/ EEC.
			where the substance or mixture is intended for supply to the general public and/or is	(b) cosmette products as defined by Directive 10/100/ EEC.
			intended for diffusive applications such as in surface cleaning and cleaning of	
	ļ		fabrics.	
	75-35-4	1, 1-Dichloroethene		By way of derogation this provision shall not apply to:
			- as substances,	(a) medicinal or veterinary products as defined by Directive
			- as constituents of other substances, or in mixtures in	2001/82/EC and Directive 2001/83/EC;
38			concentrations equal to or greater than 0,1 % by weight,	(b) cosmetic products as defined by Directive 76/768/ EEC.
			where the substance or mixture is intended for supply to the general public and/or is intended for diffusive applications such as in surface cleaning and cleaning of	1 2, 222222222
			LINIANGAG LOR GITTUGIVA ANNIJAGTIONS SUCH AS IN SUPPLACA CLAANING AND CLAANING OF	•
			fabrics.	

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40	or 2, flamma flammable so mixtures wh flammable ga liquids cate regardless o	able liquids categories 1, 2 or 3,	Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for enter- tainment and decorative purposes such as the following:  - metallic glitter intended mainly for decoration,  - artificial snow and frost,  - 'whoopee' cushions,  - silly string aerosols,  - imitation excrement,  - horns for parties,  - decorative flakes and foams,  - artificial cobwebs,  - stink bombs.	By way of derogation this provision shall not apply to the aerosol dispensers referred to Article 8 (la) of Council Directive 75/324/EEC (***).  (***) OJ L 147, 9.6.1975, p. 40.
41	67-72-1 Hexachloroe		Shall not be placed on the market, or used, as substance or in mixtures, where the substance or mixture is intended for the manufacturing or processing of non-ferrous metals.	
43			1. Azodyes which, by reductive cleavage of one or more azo groups, may release one or more of the aromatic amines listed in Appendix 8, in detectable concentrations, i.e. above 30 mg/kg (0,003 % by weight) in the articles or in the dyed parts thereof, according to the testing methods listed in Appendix 10, shall not be used, in textile and leather articles which may come into direct and prolonged contact with the human skin or oral cavity, such as:  - clothing, bedding, towels, hairpieces, wigs, hats, nappies and other sanitary items, sleeping bags,  - footwear, gloves, wristwatch straps, handbags, purses/wallets, briefcases, chair covers, purses worn round the neck,  - textile or leather toys and toys which include textile or leather garments,  - yarn and fabrics intended for use by the final consumer.  2. Furthermore, the textile and leather articles referred to in paragraph 1 shall not be placed on the market unless they conform to the requirements set out in that paragraph.  3. Azodyes, which are contained in Appendix 9, 'List of azodyes' shall not be placed on the market, or used, as substances, or in mixtures in concentrations greater than 0,1 % by weight, where the substance or the mixture is intended for colouring textile and leather articles.	
45	- Diphenyleth		<ol> <li>Shall not be placed on the market, or used:         <ul> <li>as a substance,</li> <li>as a constituent of other substances, or in mixtures, in concentrations greater than 0,1 % by weight.</li> </ul> </li> <li>Articles shall not be placed on the market if they, or flame-retardant parts thereof, contain this substance in concentrations greater than 0,1 % by weight.</li> </ol>	By way of derogation, paragraph 2 shall not apply:  - to articles that were in use in the Community before 15 August 2004,  - to electrical and electronic equipment within the scope of Directive 2002/95/EC.
46	25154-52-3 (a) Nonylpho (b) Nonylpho	nenol C6H4(OH)C9H19 nenol ethoxylates (C2H4O)nC15H24O	Shall not be placed on the market, or used, as substances or in mixtures in concentrations equal to or greater than 0,1 % by weight for the following purposes:  (1) industrial and institutional cleaning;  (2) domestic cleaning;  (3) textiles and leather processing;  (4) emulsifier in agricultural teat dips;  (5) metal working;  (6) manufacturing of pulp and paper;  (7) cosmetic products;  (8) other personal care products;  (9) co-formulants in pesticides and biocides.	By way of derogation this provision shall not apply to (1)  - controlled closed dry cleaning systems where the washing liquid is recycled or incinerated,  - cleaning systems with special treatment where the washing liquid is recycled or incinerated; (3)  - processing with no release into waste water,  - systems with special treatment where the process water is pretreated to remove the organic fraction completely prior to biological waste water treatment (degreasing of sheepskin); (5) uses in controlled closed systems where the washing liquid is recycled or incinerated; (8) spermicides.
46a	- Nonylphenol	ethoxylates (NPE) (C2H4O)nC15H24O	Shall not be placed on the market after 3 February 2021 in textile articles which can reasonably be expected to be washed in water during their normal lifecycle, in concentrations equal to or greater than 0,01 % by weight of that textile article or of each part of the textile article.	By way of derogation this provision shall not apply to the placing on the market of second-hand textile articles or of new

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47		Chromium VI compounds	used, if they contain, when hydrated, more than 2 mg/kg (0,0002 %) soluble chromium VI of the total dry weight of the cement.  2. If reducing agents are used, then without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging	Paragraphs 4 and 5 shall not apply to the placing on the market of second-hand articles which were in end-use in the Union before 1 May 2015.
48	108-88-3	Toluene	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.	
49	120-82-1	Trichlorobenzene	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight for any use.	By way of derogation this provision shall not apply to use  - as an intermediate of synthesis, or,  - as a process solvent in closed chemical applications for chlorination reactions, or,  - in the manufacture of 1,3,5-triamino - 2,4,6-trini-trobenzene (TATB).
50	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9	Polycyclic-aromatic hydrocarbons (PAH)  (a) Benzo[a]pyrene (BaP)  (b) Benzo[a]anthracene (BaA)  (c) Benzo[a]anthracene (BaA)  (d) Chrysen (CHR)  (e) Benzo[b]fluoranthene (BbFA)  (f) Benzo[j]fluoranthene (BjFA)  (g) Benzo[k]fluoranthene (BkFA)  (h) Dibenzo[a, h]anthracene (DBAhA)	1. From 1 January 2010, extender oils shall not be placed on the market, or used for the production of tyres or parts of tyres if they contain:  - more than 1 mg/kg (0,0001 % by weight) BaP, or,  - more than 10 mg/kg (0,001 % by weight) of the sum of all listed PAHs.  2. Furthermore, tyres and treads for retreading manu- factured after 1 January 2010 shall not be placed on the market if they contain extender oils exceeding the limits indicated in paragraph 1.  3. Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0,0001 % by weight of this component) of any of the listed PAHs.  4. Toys, including activity toys, and childcare articles, shall not be placed on the market, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reason-ably foreseeable conditions of use, contain more than 0,5 mg/kg (0,00005 % by weight of this component) of any of the listed PAHs.  5. Granules or mulches shall not be placed on the market for use as infill material in synthetic turf pitches or in loose form on playgrounds or in sport applications if they contain more than 20 mg/kg (0,002 % by weight) of the sum of all listed PAHs.  6. Granules or mulches shall not be used as infill material in synthetic turf pitches or in loose form on playgrounds or in sport applications if they contain more than 20 mg/kg (0,002 % by weight) of the sum of all listed PAHs.	tyres if their tread does not contain extender oils exceeding the limits referred to in paragraph 1.  By way of derogation from paragraphs 3 and 4, these paragraphs shall not apply to articles placed on the market for the first time before 27 December 2015.

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	117_01_7	Pig(2-othylboyyl) phtholoto (DEUD)	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Davagnanh 2 shall not annie to:
	117-81-7 84-74-2	Bis(2-ethylhexyl) phthalate (DEHP) Dibutyl phthalate (DBP)]	1. Shall not be used as substances or in mixtures, indi-vidually or in any	Paragraph 3 shall not apply to: (a) articles exclusively for industrial or agricultural use, or
	84-74-2 85-68-7	Benzyl butyl phthalate (BBP)	combination of the phthalates listed in column 1 of this entry, in a concentration	for use exclusively in the open air, provided that no
	84-69-5	Diisobutyl phthalate (DIBP)	equal to or greater than 0,1 % by weight of the plas- ticised material, in toys and	plasticised material comes into contact with human mucous
	•	, (2.22.)	childcare articles.	membranes or into prolonged contact with human skin;
			2. Shall not be placed on the market in toys or childcare articles, individually or	(b) aircraft, placed on the market before 7 January 2024, or
			in any combination of the first three phthalates listed in column 1 of this entry, in	articles, whenever placed on the market, for use exclusively in
			a concentration equal to or greater than 0,1 % by weight of the plasticised material.	the maintenance or repair of those aircraft, where those
			In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or	articles are essential for the safety and airworthiness of the
			childcare articles, indi- vidually or in any combination with the first three	aircraft;
			phthalates listed in column 1 of this entry, in a concentration equal to or greater	(c) motor vehicles within the scope of Directive 2007/46/EC,
			than 0,1 % by weight of the plasticised material.	placed on the market before7 January 2024, or articles, when
			3. Shall not be placed on the market after 7 July 2020 in articles, individually or	placed on the market, for use exclusively in the main-tenance or repair of those vehicles, where the vehicles cannot function
			in any combination of the phthalates listed in column 1 of this entry, in a	as intended without those articles;
			concentration equal to or greater than 0,1 % by weight of the plasticised material in	(d) articles placed on the market before 7 July 2020;
			the article.	(e) measuring devices for laboratory use, or parts thereof;
			5. For the purposes of paragraphs 1, 2, 3 and 4(a),	(f) materials and articles intended to come into contact with
51			(a) 'plasticised material' means any of the following homogeneous materials:	food within the scope of Regu- lation (EC) No 1935/2004 or
			- polyvinyl chloride (PVC), polyvinylidene chloride (PVDC), polyvinyl acetate (PVA),	Commission Regulation (EU) No 10/2011 (*);
			polyurethanes,	(g) medical devices within the scope of Directives 90/385/EEC,
			- any other polymer (including, inter alia, polymer foams and rubber material) except silicone rubber and natural latex coatings,	
			- surface coatings, non-slip coatings, finishes, decals, printed designs,	(h) electrical and electronic equipment within the scope of
			- adhesives, sealants, paints and inks.	Directive 2011/65/EU; (i) the immediate packaging of medicinal products within the
			(b) 'prolonged contact with human skin' means continuous contact of more than 10	scope of Regulation (EC) No 726/ 2004, Directive 2001/82/EC or
			minutes duration or intermittent contact over a period of 30 minutes, per day.	Directive 2001/ 83/EC;
			(c) 'childcare article' shall mean any product intended to facilitate sleep,	(j) toys and childcare articles covered by paragraphs 1 or 2.
			relaxation, hygiene, the feeding of children or sucking on the part of children.	(c), 11,5 and children alviolog covered by paragraphs 1 of 2.
			6. For the purposes of paragraph 4(b), 'aircraft' means one of the following:	(*) Commission Regulation (EU) No 10/2011 of 14 January 2011 on
			(a) a civil aircraft produced in accordance with a type certificate issued under	plastic materials and articles intended to come into contact
			Regulation (EC) No 216/2008 or with a design approval issued under the national	with food (OJ L 12, 15.1.2011, p. 1).
			regulations of a contracting State of the International Civil Aviation Organ-isation	
			(ICAO), or for which a certificate of airworthiness has been issued by an ICAO	
			contracting State under Annex 8 to the Convention on International Civil Aviation, signed on December 7, 1944, in Chicago;	
			(b) a military aircraft.	
		The following phthalates (or other CAS- and EC	1. Shall not be used as substances or in mixtures, in concentrations greater than	
		numbers covering the substance):	0,1% by weight of the plas- ticised material, in toys and childcare articles which	
	28553-12-0	(a) Di- 'isononyl' phthalate (DINP)	can be placed in the mouth by children.	
52	68515-48-0		2. Such toys and childcare articles containing these phthalates in a concentration	
	26761-40-0	(b) Di- 'isodecyl' phthalate (DIDP)	greater than 0,1% by weight of the plasticised material shall not be placed on the	
	68515-49-1	( ) D:	market.	
	117-84-0	(c) Di-n-octyl phthalate (DNOP)		
	111-77-3	2-(2-methoxyethoxy)ethanol (DEGME)	Shall not be placed on the market after 27 June 2010, for supply to the general	
54			public, as a constituent of paints, paint strippers, cleaning agents, self-shining emulsions or floor sealants in concentrations equal to or greater than 0,1 % by	
			weight.	
	112-34-5	2-(2-butoxyethoxy) ethanol (DEGBE)		
	114 34-0	2 (2 Dutoxyethoxy/ethanol (DEGDE)	1. Shall not be placed on the market for the first time after 27 June 2010, for	
			supply to the general public, as a constituent of spray paints or spray cleaners in	
55			aerosol dispensers in concentrations equal to or greater than 3 % by weight.	
			2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not	
			conforming to paragraph 1 shall not be placed on the market for supply to the general	
	26447 40 5	Mathalan dinkanal dii aan (AMT)	public after 27 December 2010.	D f d
	26447-40-5	Methylenediphenyl diisocyanate (MDI)	Shall not be placed on the market after	By way of derogation, shall not apply if the packaging:
	101-68-8	including the following specific isomers:	27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general publi.	requirements of Council Directive 89/686/ EEC(******);
	5873-54-1	(a) 4,4' -Methylenediphenyl diisocyanate:	onan o, 1 % by weight of mult for suppry to the general publi.	(b) is marked visibly, legibly and indelibly, and without
	2536-05-2	(b) 2, 4' -Methylenediphenyl diisocyanate:		prejudice to other Community legislation concerning the
56		(c) 2,2' -Methylenediphenyl diisocyanate:		classification, packaging and labelling of substances and
				mixtures.
				Derogation(a) shall not be required for hot melt adhesives.
				(******) 0J L 399, 30.12.1989, p. 18.
	110-82-7	Cyclohexane	1. Shall not be placed on the market for the first time after 27 June 2010, for	
			supply to the general public, as a constituent of neoprene-based contact adhesives in	
			concentrations equal to or greater than 0,1 % by weight in package sizes greater than	
57			350 g.	
			2. Neoprene-based contact adhesives containing cyclohexane and not conforming to	
		1	paragraph 1 shall not be placed on the market for supply to the general public after	l
			27 December 2010.	

58	6484-52-2	Ammonium nitrate (AN)	Shall not be placed on the market for the first time after 27 June 2010 as a substance, or in mixtures that contain more than 28 % by weight of nitrogen in relation to ammonium nitrate, for use as a solid fertiliser, straight or compound.	By way of derogation, shall not apply if the fertiliser complies with the technical provisions for ammonium nitrate fertilisers of high nitrogen content set out in Annex III to Regulation (EC) No 2003/2003 of the European Parliament and of the Council (********).  (**************************
59	75-09-2	Dichloromethane	Paint strippers containing dichloromethane in a concentration equal to or greater than 0,1 % by weight shall not be:  (a) placed on the market for the first time for supply to the general public or to professionals after 6 December 2010;  (b) placed on the market for supply to the general public or to professionals after 6 December 2011;  (c) used by professionals after 6 June 2012.	By way of derogation, Member States may allow on their territories and for certain activities the use, by specifically
60	79-06-1	Acrylamide	Shall not be placed on the market or used as a substance or constituent of mixtures in a concentration, equal to or greater than 0,1% by weight for grouting applications after 5 November 2012.	
61	624-49-7	Dimethylfumarate (DMF)	Shall not be used in articles or any parts thereof in concentrations greater than $0,1$ mg/kg. Articles or any parts thereof containing DMF in concentrations greater than $0,1$ mg/kg shall not be placed on the market.	
62	62-38-4 103-27-5 13302-00-6 13864-38-5 2654-49-3	<ul> <li>(a) Phenylmercury acetate</li> <li>(b) Phenylmercury propionate</li> <li>(c) Phenylmercury 2-ethylhexanoate</li> <li>(d) Phenylmercury octanoate</li> <li>(e) Phenylmercury neodecanoate</li> </ul>	1. Shall not be manufactured, placed on the market or used as substances or in mixtures after 10 October 2017 if the concentration of mercury in the mixtures is equal to or greater than 0,01 % by weight.  2. Articles or any parts thereof containing one or more of these substances shall not be placed on the market after 10 October 2017 if the concentration of mercury in the articles or any part thereof is equal to or greater than 0,01 % by weight.	

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Ī	7439-92-1	l ead	Shall not be placed on the market or used in any individual part of jowellary	4 By way of derogation paragraph 1 shall not apply to
63	7439-92-1	Lead	<ol> <li>Shall not be placed on the market or used in any individual part of jewellery articles if the concent tration of lead (expressed as metal) in such a part is equal to or greater than 0,05 % by weight.</li> <li>For the purposes of paragraph 1:         <ul> <li>(i) 'jewellery articles' shall include jewellery and imitation jewellery articles and hair accessories, including:</li> <li>(a) bracelets, necklaces and rings:</li> <li>(b) piercing jewellery:</li> <li>(c) wrist watches and wrist-wear;</li> <li>(d) brooches and cufflinks;</li> <li>(ii) 'any individual part' shall include the materials from which the jewellery is made, as well as the individual components of the jewellery articles.</li> <li>Paragraph 1 shall also apply to individual parts when placed on the market or used for jewellery- making.</li> <li>Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead (expressed as metal) in those articles or accessible parts thereof is equal to or greater than 0,65 % by weight, and those articles or accessible parts thereof is equal to or greater than 0,65 % by weight, and those articles or accessible parts thereof is equal to or greater than 0,65 % by weight, and those articles or accessible part to shad the placed in the mouth by children.</li> <li>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0,05 μg/cm2 per hour (equivalent to 0,05 μg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a period of at least two years of normal or reasonably foreseeable conditions of use of the article.</li> <li>For the purposes of this paragraph, it is considered that an article or accessible part of that size.</li> </ul></li></ol>	
64	106-46-7	1,4-dichlorobenzene	Shall not be placed on the market or used, as a substance or as a constituent of mixtures in a concentration equal to or greater than 1 % by weight, where the substance or the mixture is placed on the market for use or used as an air freshener or deodoriser in toilets, homes, offices or other indoor public areas.	equipment (0J L 174, 1.7.2011, p. 88).
65	_	Inorganic ammonium salts	Shall not be placed on the market, or used, in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume $(2,12~{\rm mg/m3})$ .	By way of derogation, shall not apply to placing on the market of cellulose insulation mixtures intended to be used solely for the production of cellulose insulation articles, or to the use of those mixtures in the production of cellulose insulation articles.
66	80-05-7	Bisphenol A	Shall not be placed on the market in thermal paper in a concentration equal to or greater than 0,02 % by weight after 2 January 2020.	

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67 削除	1163-19-5	デカブロモジフェニルエーテル Bis(pentabromophenyl)ether (dECabromodiphenyl ether;	<ol> <li>Shall not be manufactured or placed on the market as a substance on its own after 2 March 2019.</li> <li>Shall not be used in the production of, or placed on the market in:         <ul> <li>(a) another substance, as a constituent;</li> <li>(b) a mixture;</li> <li>(c) an article, or any part thereof, in a concentration equal to or greater than 0,1 % by weight, after 2 March 2019.</li> </ul> </li> </ol>	Paragraphs 1 and 2 shall not apply to a substance, constituent of another substance or mixture that is to be used, or is used: (a) in the production of an aircraft before 2 March 2027. (b) in the production of spare parts for either of the following: (i) an aircraft produced before 2 March 2027; (ii) motor vehicles within the scope of Directive 2007/46/EC, agricultural and forestry vehicles within the scope of Regulation (EU) No 167/2013 of the European Parliament and of the Council (*18) or machinery within the scope of Directive 2006/42/EC of the European Parliament and of the Council (*19), produced before 2 March 2019.  Subparagraph 2(c) shall not apply to any of the following: (a) articles placed on the market before 2 March 2019; (b) aircraft produced in accordance with subparagraph 3(a); (c) spare parts of aircraft, vehicles or machines produced in accordance with subparagraph 3(b); (d) electrical and electronic equipment within the scope of
68 削除	335-67-1	ペルフルオロオクタン酸とその塩 PFOA	1. Shall not be manufactured, or placed on the market as substances on their own from 4 July 2020.  2. Shall not, from 4 July 2020, be used in the production of, or placed on the market in:  (a) another substance, as a constituent;  (b) a mixture;  (c) an article, in a concentration equal to or above 25 ppb of PFOA including its salts or 1 000 ppb of one or a combination of PFOA-related substances.  3. Points 1 and 2 shall apply from:  (a) 4 July 2022 to:  (i) equipment used to manufacture semi-conductors;  (ii) latex printing inks.  (b) 4 July 2023 to:  (i) textiles for the protection of workers from risks to their health and safety;  (ii) membranes intended for use in medical textiles, filtration in water treatment, production processes and effluent treatment;  (iii) plasma nano-coatings.  (c) 4 July 2032 to medical devices other than implantable medical devices within the scope of Directive 93/42/EEC.	met; (d) a substance, constituent of another substance or mixture that is to be used, or is used: (i) in the production of implantable medical devices within the scope of Directive 93/42/EEC; (ii) in photographic coatings applied to films, papers or printing plates; (iii) in photo-lithography processes for semiconductors or in etching processes for compound semiconductors; (e) concentrated fire-fighting foam mixtures that were placed on the market before 4 July 2020 and are to be used, or are

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	375-95-1 335-76-2 2058-94-8 307-55-1 72629-94-8 376-06-7	C9-C14 linear and/or branched perfluorocarboxylic acids (C9-C14 PFCAs), their salts and C9-C14 PFCAs-related substances, perfluorononan-1-oic acid (PFNA); nonadecafluorodecanoic acid (PFDA); henicosafluoroundecanoic acid (PFDDA); tricosafluoroddecanoic acid (PFDDA); pentacosafluorotridecanoic acid (PFTDA); heptacosafluorotetradecanoic acid (PFTDA); including their salts and precursors	2. Shall not, from 25 February 2023, be used in, or placed on the market in: (a) another substance, as a constituent: (b) a mixture: (c) an article, except if the concentration in the substance, the mixture, or the article is below 25 ppb for the sum of C9-C14 PFCAs and their salts or 260 ppb for the sum of C9-C14 PFCA-related substances. 4. Paragraph 2 shall apply from 4 July 2023 to: (i) textiles for oil- and water-repellency for the protection of workers from dangerous liquids that comprise risks to their health and safety; (ii) the manufacture of polytetrafluoroethylene (PTFE) and polyvinylidene fluoride (PVDF) for the production of:  - high performance, corrosion resistant gas filter membranes, water filter membranes and membranes for medical textiles;  - industrial waste heat exchanger equipment:  - industrial sealants capable of preventing leakage of volatile organic compounds and PM 2,5 particulates 6. Paragraph 2(c) shall not apply to articles placed on the market before 25 February 2023. 7. Paragraph 2 shall not apply to the can coating for pressurised metered-dose inhalers until 25 August 2028. 8. Paragraph 2 (c) shall apply from 31 December 2023 to: (a) semiconductors on their own: (b) semiconductors incorporated in semi-finished and finished electronic equipment. 9. Paragraph 2 (c) shall apply from 31 December 2030 to semiconductors used in spare or replacement parts for finished electronic equipment placed on the market before 31 December 2023. 10. Until 25 August 2024, the concentration limit referred to in paragraph 2 shall be 2 000ppb for the sum of C9-C14 PFCAs in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups. From 25 August 2024, the concentration limit shall be 2 000ppb for the sum of C9-C14 PFCAs in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups. From 25 August 2024, the concentration limit shall be 3 100 ppb for the sum of C9-C14 PFCAs in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups. From 25 August 2024, the conc	shall be 10 ppm for the sum of C9-C14 PFCAs, their salts and C9-C14 PFCA related substances, where they are present in a substance to be used as a transported isolated intermediate, provided that the conditions in points (a) to (f) of Article 18(4) of this Regulation are met for the manufacturing of fluorochemicals with a perfluoro carbon chain length equal to or shorter than 6 atoms. The Commission shall review this limit no later than 25 August 2023.  5. By way of derogation to paragraph 2, the use of C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances shall be allowed until 4 July 2025for: (i)photolithography or etch processes in semiconductor manufacturing; (ii)photographic coatings applied to films; (iii)invasive and implantable medical devices; (iv)fire-fighting foam for liquid fuel vapour suppression and liquid fuel fire (Class B fires) already installed in systems, including both mobile and fixed systems, subject to the following conditions:  - fire-fighting foam that contains or may contain C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances shall not be used for training;  - fire-fighting foam that contains or may contain C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances shall not be used for testing unless all releases are contained;  -from 1 January 2023, uses of fire-fighting foam that contains or may contain C9-C14 PFCA-related substances shall not be used for testing unless all releases are contained;
	67-56-1	Methanol	C14 PFCAs during the manufacture and use of PTFE micro powders shall be avoided and,	
69			windscreen washing or defrosting fluids, in a concentration equal to or greater than 0,6 % by weight.	
70	556-67-2 541-02-6	Octamethylcyclotetrasiloxane (D4) Decamethylcyclopentasiloxane (D5)	Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020.	
71	872-50-4	1-methyl-2-pyrrolidone (NMP)	1. Shall not be placed on the market as a substance on its own or in mixtures in a concentration equal to or greater than 0,3 % after 9 May 2020 unless manu- facturers, importers and downstream users have included in the relevant chemical safety reports and safety data sheets, Derived No-Effect Levels (DNELs) relating to exposure of workers of 14,4 mg/m3 for exposure by inhalation and 4,8 mg/kg/day for dermal exposure.  2. Shall not be manufactured, or used, as a substance on its own or in mixtures in a concentration equal to or greater than 0,3 % after 9 May 2020 unless manu- facturers and downstream users take the appropriate risk management measures and provide the appropriate operational conditions to ensure that exposure of workers is below the DNELs specified in paragraph 1.  3. By way of derogation from paragraphs 1 and 2, the obligations laid down therein shall apply from 9 May 2024 in relation to placing on the market for use, or use, as a solvent or reactant in the process of coating wires.	

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72	The substances Appendix 12	1. Shall not be placed on the market after 1 November 2020 in any of the following:  (a) clothing or related accessories:  (b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing;  (c) footwear;  if the clothing, related accessory, textile other than clothing or footwear is for use by consumers and the substance is present in a concentration, measured in homogeneous material, equal to or greater than that specified for that substance in Appendix 12.	2. By way of derogation, in relation to the placing on the market of formaldehyde [CAS No 50-00-0] in jackets, coats or upholstery, the relevant concentration for the purposes of paragraph 1 shall be 300 mg/kg during the period between 1 November 2020 and 1 November 2023. The concentration specified in Appendix 12 shall apply thereafter.  3. Paragraph 1 shall not apply to: (a) clothing, related accessories or footwear, or parts of clothing, related accessories or footwear, made exclusively of natural leather, fur or hide; (b) non-textile fasteners and non-textile decorative attachments; (c) second-hand clothing, related accessories, textiles other than clothing or footwear (d) wall-to-wall carpets and textile floor coverings for indoor use, rugs and runners.  4. Paragraph 1 shall not apply to clothing, related accessories, textiles other than clothing, or footwear within the scope of Regulation (EU) 2016/425 of the European Parliament and of the Council (**).  5. Paragraph 1(b) shall not apply to disposable textiles.  'Disposable textiles' means textiles that are designed to be used only once or for a limited time and are not intended for subsequent use for the same or a similar purpose.  6. Paragraphs 1 and 2 shall apply without prejudice to the application of any stricter restrictions set out in this Annex or in other applicable Union legislation.  7. The Commission shall review the exemption in paragraph 3(d) and, if appropriate, modify that point accordingly.  (*) Regulation (EU) 2016/425 of the European Parliament and of the Council of 5 April 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (OJ L 81, 31.3.2016, p. 51).  (**) Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/ 2002 and Regulation (EC) No 1223/2009 and repealing Council Directives
73		Shall not be placed on the market for supply to the general public after 2 January 2021 individually or in any combination, in a concentration equal to or greater than 2 ppb by weight of the mixtures containing organic solvents, in spray products.	90/385/EEC and 93/42/EEC (OJ L 117, 5.5.2017, p. 1).  for professional users only
74	(TDFAs)  Diisocyanates, 0 = C=N-R-N = C=0, with aliphatic or aromatic hydrocarbon unit unspecified length		

Annex-A 17/33 (202211)

	_	Substances in tattoo inks and permanent make up	1. Shall not be placed on the market in mixtures for use for tattooing purposes,	4. By way of derogation, paragraph 1 shall not apply to the
		data tances in carroo links and permanent make up	and mixtures containing any such substances shall not be used for tattooing purposes,	following substances until 4 January 2023:
			after 4 January 2022 if the substance or substances in question is or are present in	(a) Pigment Blue 15:3 (CI 74160, EC No 205-685- 1, CAS No 147-
			the following circumstances:	
			(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No	
			1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater	(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-
			than 0,00005 % by weight;	6).
			(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No	
			1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in	9. This entry does not appry to substances that are gases at
			the mixture in a concentration equal to or greater than 0,001 % by weight;	temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C,
			(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No	with the exception of formaldehyde (CAS No 50-00-0, EC No 200-
			1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the	001-8).
			mixture in a concentration equal to or greater than 0,001 % by weight;	
			(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No	10. This entry does not apply to the placing on the market of a
			1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or	mixture for use for tattooing purposes, or to the use of a
			as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:	
			in the mixture in a concentration equal to or greater than: (i) 0,1 % by weight, if the substance is used solely as a pH regulator;	exclusively as a medical device or an accessory to a medical
			(ii) 0,01 % by weight, in all other cases;	device, within the meaning of Regulation (EU) 2017/745, or when
			(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009	used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on
			(*), the sub- stance is present in the mixture in a concentra- tion equal to or	the market or use may not be exclusively as a medical device or
			greater than 0,00005 % by weight;	an accessory to a medical device, the requirements of
			(f) in the case of a substance for which a condition of one or more of the following	Regulation (EII) 2017/745 and of this Regulation shall apply
			kinds is specified in column g (Product type, Body parts) of the table in Annex IV to	cumulatively.
75			Regulation (EC) No 1223/2009, the substance is present in the mixture in a	
			concentration equal to or greater than 0,00005 % by weight: (i) 'Rinse-off products';	
			(ii) 'Not to be used in products applied on mucous membranes';	
			(iii) 'Not to be used in eye products';	
			(g) in the case of a substance for which a condition is specified in column h	
			(Maximum concentra- tion in ready for use preparation) or column i (Other) of the	
			table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the	
			mixture in a concentration, or in some other way, that does not accord with the	
			condition specified in that column;	
			(h) in the case of a substance listed in Appendix 13 to this Annex, the substance is	
			present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.	
			2. For the purposes of this entry use of a mixture 'for tattooing purposes' means	
			injection or introduction of the mixture into a person's skin, mucous membrane or	
			eyeball, by any process or procedure (including procedures commonly referred to as	
			permanent make-up, cosmetic tattooing, micro- blading and micro-pigmentation), with	
			the aim of making a mark or design on his or her body.	
			3. If a substance not listed in Appendix 13 falls within more than one of points	
1			(a) to (g) of paragraph 1, the strictest concentration limit laid down in the points	
			in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit	
			laid down in point (h) of paragraph 1 shall apply to that substance.	
			Tata down in point (n/ or paragraph i sharr appry to that substance.	
			(*) Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30	
			November 2009 on cosmetic products (OJ L 342, 22.12.2009, p. 59).	
	68-12-2	N, N-dimethylformamide	1. Shall not be placed on the market as a substance on its own, as a constituent of	3. By way of derogation from paragraphs 1 and 2, the
			other substances, or in mixtures in a concentration equal to or greater than 0,3 %	obligations laid down therein shall apply from 12 December 2024
			after 12 December 2023 unless manufacturers, importers and downstream users have	in relation to placing on the market for use, or use, as a
			included in the relevant chemical safety reports and safety data sheets, Derived No-	solvent in direct or transfer polyurethane coating processes of
7.0			Effect Levels (DNELs) relating to exposure of workers of 6 mg/m 3 for exposure by	textiles and paper material or the production of polyurethane
76			inhalation and 1,1 mg/kg/day for dermal exposure. 2. Shall not be manufactured, or used, as a substance on its own, as a constituent of	membranes, and from 12 December 2025 in relation to placing on
			other substances, or in mixtures in a concentration equal to or greater than 0,3 %	spinning processes of synthetic fibres.
			after 12 December 2023 unless manufacturers and downstream users take the appropriate	optimiting processes of synthetic fibres.
			risk management measures and provide the appropriate operational conditions to ensure	
			that exposure of workers is below the DNELs specified in paragraph 1.	

※ No. 22、No. 67、No. 68 削除は、EU POPs 規則の「附属書 A (製造・使用、輸出入の原則禁止)」となっています(閾値引継ぎ)。

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# (3) EU POPs Annex A (Elimination)

# All POPs listed in the Stockholm Convention <a href="http://www.pops.int/TheConvention/ThePOPs/AllPOPs/tabid/2509/Default.aspx">http://www.pops.int/TheConvention/ThePOPs/AllPOPs/tabid/2509/Default.aspx</a>

番号	CAS No.	物質名	含有例
1	309-00-2	Aldrin	Pesticide
2	319-84-6	Alpha hexachlorocyclohexane	by-product of lindane
3	319-85-7	Beta hexachlorocyclohexane	by-product of lindane
4	5103-71-9	Chlordane	Termite control, etc.
5	143-50-0	Chlordecone	agricultural pesticide
6	60-57-1	Dieldrin	Pesticide
7	115-29-7 959-98-8 33213-65-9	Technical endosulfan and its related isomers	Pesticide
8	72-20-8	Endrin	Pesticide
9	57-74-9 ( <b>※</b> 1)	Heptachlor	Termite control, etc.
10	36355-01-8	Hexabromobiphenyl	Flame retardant
11	25637-99-4 3194-55-6	Hexabromocyclododecane	Flame retardant
12	31153-30-7 ( <b>※</b> 1)	Hexabromodiphenyl ether	Flame retardant
13	68928-80-3 ( <b>※</b> 1)	Heptabromodiphenyl ether	Flame retardant
14	118-74-1	Hexachlorobenzene (HCB)	Fungicide
15	87-68-3	Hexachlorobutadiene	Solvent
16	58-89-9	Lindane	Pesticide
17	2385-85-5	Mirex	Flame retardant, pesticide
18	608-93-5	Pentachlorobenzene (PeCB)	Dyestuff carrier, fungicide, flame retardant
19	87-86-5 ( <b>※</b> 1)	Pentachlorophenol and its salts and esters	Pesticide
20	2051-24-3 ( <b>※</b> 1)	Polychlorinated biphenyls (PCB)	Heat exchange fluid, etc
21	2050-69-3 ( <b>※</b> 1)	Polychlorinated naphthalenes	Insulating coating, etc
22	5436-43-1 ( <b>※</b> 1)	Tetrabromodiphenyl ether	Flame retardant
23	60348-60-9 ( <b>※</b> 1)	Pentabromodiphenyl ether	Flame retardant
24	8001-35-2	Toxaphene	Pesticide
25	1163-19-5	Decabromodiphenyl ether	Flame retardant
26	85535-84-8	Short-chained chlorinated paraffins(SCCPs)	Plasticizer
27	115-32-2	Dicofol	Pesticide
28	335-67-1 ( <b>※</b> 1)	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	Fluoropolymer processing aid, surfactant, etc
29	355-46-4 ( <b>※</b> 1)	Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds	Manufacture of electronics and semiconductors

%1: There are other CAS No. to be covered.

\*2: For the purposes of the entries on No.12, 13, 22, 23 and 25, point (b) of Article 4(1) shall apply to the sum of the concentration of those substances up to 500 mg/kg where they are present in mixtures or articles, subject to Regulation (EU) 2019/1021 ANNEX I.

(4) Five PBT Chemicals under TSCA <a href="https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persistent-bioaccumulative-and-tsca/persisten

番号	CA No.	Chemical	Uses
1	Phenol, isopropylated phosphate (3:1) PIP(3:1)  Plenol, isopropylated phosphate (3:1) PIP(3:1)  Flame retardants in polyvinyl chloride (PVC) plastics, polyurethanes, BPA epoxies, and lubricants		Flame retardants in polyvinyl chloride (PVC) plastics, polyurethanes, BPA epoxies, and lubricants
2		Decabromodiphenyl ether DecaBDE	Flame retardant for heat shrink and nylon connectors
3	87-68-3 Hexachlorobutadiene HCBD Intermediate substance formed during the production of chlorinated hydrocarbons		Intermediate substance formed during the production of chlorinated hydrocarbons
4		Pentachlorothiophenol PCTP	May be present in butadiene or isoprene rubber
5		2, 4, 6-Tris(tert-butyl)phenol 2, 4, 6-TTBP	Some types of oils used to lubricate parts

## Monitoring substances

### • What are monitoring substances?

Chemical substances whose content in products and parts must be reported when disclosure is required by laws and regulations.

- $\odot$  If there are threshold values according to various laws and regulations, the minimum value among the threshold values specified for each condition is used.
  - $\ensuremath{\bigcirc}$  The percentage of ingredients contained is confirmed by chemSHERPA.
- $\odot$  Substances that can be answered by submitting chem HERPA data will be deemed to have been declared by submitting such data.
- © For substances that have not yet been chemSHERPA compliant or have not yet been applied under the promulgated laws and regulations, please cooperate with us by submitting a written pledge.
  - $\odot$  Even for chemSHERPA-compliant substances, we may ask you to submit a written pledge for certain reasons.
  - © Even if the content is below the threshold value, if you know the content, please report it.

Candidate List of SVHC for Authorisation

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

SVHC	No.	CA No.	Name
	1	120-12-7	アントラセン Anthracene
	2	101-77-9	4,4'-メチレンビスアニリン 4,4'- Diaminodiphenylmethane [MDA]
	3	84-74-2	フタル酸ジブチル Dibutyl phthalate [DBP]
	4	7646-79-9	塩化コバルト(II) Cobalt dichloride
	5	1303-28-2	五酸化二ヒ素 Diarsenic pentaoxide
	6	1327-53-3	三酸化二ヒ素 Diarsenic trioxide
	7	7789-12-0 10588-01-9	ニクロム酸(重クロム酸)ナトリウム 二水和物 無水ニクロム酸(重クロム酸)ナトリウム Sodium dichromate
	8	81-15-2	2,4,6-トリニトロ-5-t-ブチル-1,3-キシレン、マスクキシレン 5-tert-butyl-2,4,6-trinitro-m-xylene [musk xylene]
1st	9	117-81-7	フタル酸ビス(2-エチルヘキシル) Bis (2-ethylhexyl)phthalate [DEHP]
	10	25637-99-4 3194-55-6 134237-51-7 134237-50-6 134237-52-8	ヘキサブロモシクロドデカン Hexabromocyclododecane [HBCDD] all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)
	11	85535-84-8	短鎖塩素化パラフィン Alkanes, C10-13, chloro [ hort Chain Chlorinated Paraffins]
	12	56-35-9	ビス-n-トリブチルスズオキサイド Bis(tributyltin)oxide [TBT0]
	13	7784-40-9	ヒ酸鉛 Lead hydrogen arsenate
	14	85-68-7	フタル酸-n-ブチル=ベンジル Benzyl butyl phthalate [BBP]
	15	15606-95-8	ヒ酸トリエチル Triethyl arsenate
	16	90640-80-5	アントラセンオイル Anthracene oil
	17	91995-17-4	アントラセンオイル、アントラセンペースト、軽質留分 Anthracene oil, anthracene paste, distn. lights
	18	91995-15-2	アントラセンオイル、アントラセンペースト、アントラセン留分 Anthracene oil, anthracene paste, anthracene fraction
	19	90640-82-7	アントラセンオイル Anthracene oil, anthracene-low
	20	90640-81-6	アントラセンオイル、アントラセンペースト Anthracene oil, anthracene paste
	21	65996-93-2	高温コールタールピッチ Pitch, Coal tar, high temp.
第2次	22	121-14-2	2, 4-ジニトロトルエン 2, 4-Dinitrotoluene
	23	84-69-5	フタル酸ジイソブチル Diisobutyl phthalate [DIBP]
	24	7758-97-6	クロム酸鉛 Lead chromate
	25	12656-85-8	硫酸モリブデン酸クロム酸鉛、C.I ピグメントレッド104 Lead chromate molybdate sulfate red (C.I. Pigment Red 104)
	26	1344-37-2	黄鉛、C.I ピグメントイエロー34 Lead sulfochromate yellow (C. I. Pigment Yellow 34)
	27	115-96-8	リン酸トリス(2-クロロエチル) Tris(2-chloroethyl)phosphate
	28	79-06-1	アクリルアミド Acrylamide
	29	79-01-6	トリクロロエチレン Trichloroethylene
	30	10043-35-3 11113-50-1	本ウ酸 Boric acid
第3次	31	12179-04-3 1330-43-4 1303-96-4	四ホウ酸ナトリウム(四ホウ酸二ナトリウム、ホウ砂), 無水物 四ホウ酸ナトリウム十水和物, 無水物、五水和物 Disodium tetraborate, anhydrous
	32	12267-73-1	四ホウ酸ニナトリウム(七酸化四ホウ酸ニナトリウム), 水和物 Tetraboron disodium heptaoxide, hydrate

	33	7775-11-3	クロム酸ナトリウム
		7789-00-6	odium chromate クロム酸カリウム
		7789-09-5	Potassium chromate 二クロム酸アンモニウム、重クロム酸アンモニウム
		7778-50-9	Ammonium dichromate 二クロム酸カリウム、重クロム酸カリウム
			Potassium dichromate 硫酸コバルト(II)
		10124-43-3	Cobalt(II) sulphate 硝酸コバルト(II)
	38	10141-05-6	Cobalt(II) dinitrate 炭酸コパルト(II)
	39	513-79-1	Cobalt(II) carbonate   酢酸コパルト(II)
	40	71-48-7	日時にフッル(II) Cobalt(II) diacetate 2-メトキシエタノール、メチルセロソルブ
第4次	41	109-86-4	2-Methoxyethanol
	42	110-80-5	2-エトキシエタノール、セロソルブ 2-Ethoxyethanol
	43	1333-82-0	三酸化クロム、無水クロム酸(VI) Chromium trioxide
	44	7738-94-5	三酸化クロムおよびそのオリゴマーから生成される酸 クロム酸 Chromic acid
	44	13530-68-2	ニクロム酸、重クロム酸 Dichromic acid クロム酸、ニクロム酸のオリゴマーOligomers of chromic acid and dichromic acid
	45	111-15-9	酢酸 2-エトキシエチル 2-Ethoxyethyl acetate
	46	7789-06-2	クロム酸ストロンチウム trontium chromate
	47	68515-42-4	フタル酸ヘプチルノニルウンデシル(DHNUP) 1,2-Benzenedicarboxylic acid,di-C7-11-branched and linear alkyl esters
第 5 次	48	302-01-2	ヒドラジン Hydrazine
	40	7803-57-8	N-メチル-2-ピロリドン
		872-50-4	1-Methyl-2-pyrrolidone 1,2,3-トリクロロプロパン
		96-18-4	1, 2, 3-Trichloropropane 1, 2-ベンゼンジカルボン酸; ジ-C6-8-ブランケドアルキルエステルス, C7- rich [DIHP]
	51	71888-89- 6	1,2-Benzenedicarboxylic acid,di-C6-8-branched alkyl esters, C7-rich ジルコニアアルミノケイ酸、耐火性セラミック繊維
	52	_	Zirconia Aluminosilicate, Refractory Ceramic Fibres※2 ヒ酸カルシウム
	53	7778-44-1	し版カルフリム Calcium arsenate ジグリム
	54	111-96-6	Bis(2-methoxyethyl) ether
	55	_	アルミノケイ酸、耐火性セラミック繊維 Aluminosilicate, Refractory Ceramic Fibres
	56	11103-86-9	ヒドロキシオクタオキソ二亜鉛酸二クロム酸カリウム Potassium hydroxyoctaoxodizincatedichromate
	57	6477-64-1	ニピクリン酸鉛 Lead dipicrate
	58	127-19-5	N,N-ジメチルアセトアミド N,N-dimethylacetamide
	59	7778-39-4	ヒ酸 Arsenic acid
	60	90-04-0	2-メトキシアニリン 2-Methoxyaniline; o-Anisidine
ft 6.15	61	3687-31-8	ヒ酸鉛 Trilead diarsenate
第6次	62	107-06-2	1,2-ジクロロエタン 1,2-Dichloroethane
	63	49663-84-5	クロム酸八水酸化五亜鉛 Pentazinc chromate octahydroxide
	64	140-66-9	$4-(1,1,3,3-\overline{r})$ トラメチルブチル)フェノール $4-(1,1,3,3-\overline{r})$ + $3-2$
	65	25214-70-4	アニリン・ホルムアルデヒド重縮合物 Formaldehyde, oligomeric reaction products with aniline
	66	117-82-8	では、(2-メトキシエチル)=フタラート Bis(2-methoxyethyl) phthalate
	67	13424-46-9	Bistz wetnoxyetnyi pittialate アジ化鉛 Lead diazide, Lead azide
		15245-44-0	トリニトロレゾルシン鉛
	69	101-14-4	Lead styphnate 2, 2' - ジクロロ-4, 4' - メチレンジアニリン
		77-09-8	2,2'-dichloro-4,4'-methylenedianiline フェノールフタレイン
		24613-89-6	Phenolphthalein クロム(Ⅲ) (クロム酸)
		112-49-2	Dichromium tris(chromate) 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)
			トリエチレングリコールジメチルエーテル 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)
		110-71-4 1303-86-2	1,2-ジメトキシエタン Diboron trioxide 三酸化二ホウ素
第7次		75-12-7	Formamide
212 : 77		17570-76-2	ホルムアミド Lead(II) bis(methanesulfonate)
			メタンスルホン酸鉛(II) TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)
		2451-62-9 59653-74-6	イソシアヌル酸トリグリシジル β-TGIC (1,3,5-tris[(2 and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)
I	10	07000 14-0	p 1010 (1, 0, 0 0110[(2 did 2h) 2, 0 0pox/prop/1] 1, 0, 0 011d21h0 2, 1, 0 (1h, oh, oh) 0110h0

	79	90-94-8	4,4'-bis(dimethylamino)benzophenone (Michler's ketone) 4,4'-ビス(ジメチルアミノ)ベンゾフェノン(別名:ミヒラーケトン)			
	80	101-61-1	N, N, N', n'-tetramethyl-4,4'-methylenedianiline (Michler's base) 4,4'-メチレンビス(N, N-ジメチルアニリン)(別名:ミヒラーベース)			
	81	2580-56-5	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C. I. Basic Violet 3) クリスタルバイオレット			
	82	548-62-9	[4-[[4-anilino-1-naphthy1][4-(dimethylamino)pheny1]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C. I. Basic Blue 26) ベーシックブルー26			
	83	561-41-1	$\alpha$ , $\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C. I. olvent Blue 4)			
	84	6786-83-0	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol 4-メチルアミノ-4',4''-ビス(ジメチルアミノ)トリフェニルメタノール			
	85	1163-19-5	Bis(pentabromopheny1) ether (DecaBDE) デカブロモジフェニルエーテル			
	86	72629-94-8	Pentacosafluorotridecanoic acid ペルフルオロトリデカン酸			
	87	307-55-1	Tricosafluorododecanoic acid トリコサフルオロドデカン酸			
	88	2058-94-8	Henicosafluoroundecanoic acid ペルフルオロウンデカン酸			
89 376-06-7 Heptacosafluorotetradecanoic acid ヘインコサフルオロテトラデカン酸						
	90	123-77-3	Diazene-1, 2-dicarboxamide (C, C'-azodi(formamide)) ジアゼン-1, 2-ジカルボキシアミド			
	91	85-42-7 13149-00-3 14166-21-3	Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride, ヘキサヒドロフタル酸無水物, シスー,2-シクロヘキサンジカルボン酸無水物,			
	92	25550-51-0 19438-60-9 48122-14-1 57110-29-9	ヘキサヒドロフタル酸無水物  Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride メチルヘキサヒドロ無水フタル酸とその異性体			
	93	_	4-Nonylphenol, branched and linear 4-ノニルフェノール、分岐および直鎖			
	94	_	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated 4-(1,1,3,3-テトラメチルブチル)フェノール、エトキシレート			
	95	625-45-6	Methoxy acetic acid メトキシ酢酸			
	96	68-12-2	N,N-dimethylformamide; dimethyl formamide N,N-ジメチルホルムアミド			
	97	683-18-1	が、ドラステルがのログ(DBT) Dibutyltin dichloride(DBT) ジブチルジクロロスズ			
	98	1317-36-8	Lead oxide (lead monoxide) 酸化鉛			
	99	1314-41-6	Lead tetroxide (orange lead) 四酸化三鉛			
	100	13814-96-5	Lead bis (tetrafluoroborate) ホウフッ化酸鉛			
第8次	101	1319-46-6	Trilead bis(carbonate)dihydroxide (basic lead carbonate) ビス(炭酸)ニ水酸化三鉛			
	102	12060-00-3	Lead titanium trioxide チタン酸鉛			
	103	12626-81-2	Lead Titanium Zirconium Oxide チタン酸ジルコン酸鉛			
	104	11120-22-2	ilicic acid, lead salt ケイ酸鉛			
	105	68784-75-8	ilicic acid, barium salt, lead-doped ケイ酸バリウム、鉛ドープ			
	106	106-94-5	l-bromopropane l-プロモプロパン			
	107	75-56-9	Propylene oxide; 1,2-epoxypropane; methyloxirane メチルオキシラン			
	108	84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear 1,2-ベンゼンジカルボン酸、ジペンチルエステル、分岐および直鎖			
	109	605-50-5	Diisopentylphthalate フタル酸ジイソペンチル			
	110	776297-69-9	N-pentyl-isopentylphtalate フタル酸 n-ペンチル-イソペンチル			
	111	629-14-1	1, 2-Diethoxyethane 1, 2-ジエキトキシエタン			
	112	51404-69-4	Acetic acid, lead salt, basic 塩基性酢酸鉛			
113 12036-76-9 Lead oxide sulfate 酸化硫酸鉛						
	114	69011-06-9	[Phthalato(2-)]dioxotrilead 二塩基性フタル酸鉛			
	115	12578-12-0	Dioxobis(stearato) trilead ジオキソビス(ステアリン酸) 三鉛			
	116	91031-62-8	Fatty acids, C16-18, lead salts 脂肪酸鉛塩(炭素数 16~18)			
	117	20837-86-9	Lead cyanamidate シアナミド鉛			
	118	10099-74-8	Lead dinitrate 硝酸鉛			
	119	12065-90-6	Pentalead tetraoxide sulphate 塩基性硫酸鉛			
	120	8012-00-8	Pyrochlore, antimony lead yellow ピグメントイエロー41			

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	121	62229-08-7	ulfurous acid, lead salt, dibasic 塩基性亜硫酸鉛
	122	78-00-2	Tetraethyllead
		12202-17-4	四エチル鉛 Tetralead trioxide sulphate
		12141-20-7	三塩基性硫酸鉛 Trilead dioxide phosphonate
		110-00-9	二塩基性リン酸鉛 Furan
		64-67-5	フラン Diethyl sulphate
127 77-78-1 128 143860-04-2			硫酸ジエチル Dimethyl sulphate
			硫酸ジメチル 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
			3-エチル-2-メチル-2 (3-メチルブチル) -1-3-オキサゾリジン Dinoseb
		88-85-7	ジノセブ 4,4'-methylenedi-o-toluidine
		838-88-0	4,4'-メチレンビス-0-トルイジン 4,4'-oxydianiline and its salts
		101-80-4	4,4'-オキシジアニリン 4-Aminoazobenzene; 4-Phenylazoaniline
		60-09-3	4-アミノアゾベンゼン 4-methyl-m-phenylenediamine (2,4-toluene-diamine)
	133	95-80-7	4-メチルーフェニレンジアミン 6-methoxy-m-toluidine (p-cresidine)
	134	120-71-8	Bipheny1-4-ylamine
	135	92-67-1	デアールー4イルアミン o-aminoazotoluene
	136	97-56-3	0-aminoazotrane 0-アミノアゾトルエン o-Toluidine; 2-Aminotoluene
	137	95-53-4	0-トルイジン
	138	79-16-3	N-methylacetamide N-メチルアセトアミド
	139	7440-43-9	Cadmium カドミウム
	140	1306-19-0	Cadmium oxide 酸化カドミウム
第9次	141	3825-26-1	Ammonium pentadecafluorooctanoate (APFO) ペンタデカフルオロオクタン酸アンモニウム(APFO)
3337	142	335-67-1	Pentadecafluorooctanoic acid (PFOA) ペンタデカフルオロオクタン酸 (PFOA)
	143	131-18-0	Dipentyl phthalate (DPP) フタル酸ジ ペンチル(DPP)
	144	_	4-Nonylphenol, branched and linear, ethoxylated 4-ノニルフェノール、分岐及び直鎖のエトキシレート
	145	1306-23-6	Cadmium sulphide 硫化カドミウム
	146	573-58-0	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C. I. Direct Red 28)3,3'-[(1,1'-ビフェニル) -4,4'-ジイルビス (アゾ)]ビス (4-アミノナフタレン-1-スルホネート) ニナトリウム (別名 CI ダイレクトレッド 28)
第10次	147	1937-37-7	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C. I. Direct Black 38) ジナトリウム=4-アミノ-3-[4'-(2,4-ジアミノフェニルアゾ)-1,1'-ビフェニルー4-イルアゾ]-5-ヒドロキシ-6-フェニルアゾ-2,7-ナフタレンジスルホナート
),5 10 i),(	148	84-75-3	Dihexyl phthalate フタル酸ジ〜キシル, ジヘキシルフタラート, フタル酸ジ-n-ヘキシル
	149	96-45-7	Imidazolidine-2-thione; 2-imidazoline-2-thiol 2-イミダゾリジンチオン
	150	301-04-2	Lead di(acetate) 酢酸鉛(Ⅱ),ビス酢酸鉛(Ⅱ),二酢酸鉛(Ⅱ)
	151	25155-23-1	Trixylyl phosphate リン酸トリス(ジメチルフェニル)
	152	68515-50-4	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear ビス[アルキル(C=6)]=フタラート
₩ 11 \h	153	10108-64-2	Cadmium chloride 塩化カドミウム(II)
第 11 次	154	_	odium perborate; perboric acid, sodiumsalt 過ホウ酸ナトリウム,過ホウ酸,ナトリウム
	155	7632-04-4	odium peroxometaborate 過ホウ酸ナトリウム
	156	7790-79-6	Cadmium fluoride フッ化カドミウム(II)
	157	10124-36-4; 31119-53-6	Cadmium sulphate 硫酸カドミウム(II)
	158	3846-71-7	2-benzotriazol-2-yl-4, 6-di-tertbutylphenol (UV-320) 2-(2H-1, 2, 3-ベンゾトリアゾール-2-yl)-4, 6-ジ-tert-プチルフェノール
第 12 次	159	25973-55-1	2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol (W-328) 2-(2H-ベンゾトリアゾール-2-イル)-4, 6-ジ-tert-ペンチルフェノール
	160	15571-58-1	2-ethylhexyl 10-ethyl-4, 4-dioctyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate(DOTE) ビス(2-エチルヘキサン-1-イル)=2, 2'-[(ジオクタン-1-イルスタンナンジイル) ビス(スルファンジイル)]ジアセタート
	161	_	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4stannatetradecanoate (reactionmass of DOTE and MOTE) DOTE と MOTE の反応物

	162	68515-51-5 68648-93-1	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid,mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5) 1,2-ベンゼンジカルボン酸、デ-C6~10-アルトルエステル;1,2-ベンゼンジカルボン酸、デシル・ヘキシル・オクチルジエステルと 0.3%以上のフタル酸ジヘキシル(EC No. 201-559-5)との混合物
第 13 次	163	_	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-secbutyl-2(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any ofthe individual isomers of [1] and [2] or anycombination thereof] 5-sec-ブチル-2-(2,4-ジメチルシクロヘキサ-3-エン-1-イル)-5-メチル-1,3-ジオキサン[1]、5sec-ブ
			チル-2-(4,6-ジメチルシクロヘキサ-3-エン-1-イル)-5-メチル-1,3-ジオキサン[2]([1]と [2]の個々の異性体、またはその組合せも含む)
	164	1120-71-4	1,3-propanesultone 1,3-プロパンスルトン
	165	3864-99-1	2,4-di-tert-butyl-6-(5-chlorobenzotriazo1-2-yl)phenol (UV-327)2- (2-ヒドロキシ-3,5-ジ-t-ブチルフェニル) -5-クロロベンゾトリアゾール[別名:2-(3,5-ジ-tert-ブチル-2-ヒドロキシフェニル) -5-クロロベンゾトリアゾール]
第 14 次	166	36437-37-3	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) 2-(2H-ベンゾトリアゾール-2-イル)=4-tert-ブチル-6-sec-ブチルフェノール
おけべ	167	98-95-3	Nitrobenzene ニトロベンゼン
	168	375-95-1 21049-39-8 4149-60-4	Perfluorononan-1-oic-acid and its sodium and ammonium salts パーフルオロノナン-1-酸とその塩とアンモニウム塩
Benzo[def]chrysene (Benzo[a]pyrene)		Benzo[def]chrysene (Benzo[a]pyrene) ベンゾ[def]クリセン (ベンゾ[a]ピレン)	
	170	00.05.7	4,4'-isopropylidenediphenol (bisphenol A; BPA) 4,4'-イソプロビリデンジフェノール(ビスフェノールA)、BPA、2,2-ビス(p-ヒドロキシフェニル)プロ
	170	80-05-7	パンガまど Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts
	171	335-76-2 3830-45-3 3108-42-7	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts ノナデカフルオロデカン酸(PFDA)およびそのナトリウムとアンモニウム塩、(ノナデカフルオロデカン 酸アンモニウム、ノナデカフルオロデカン酸、ノナデカフルオロデカン酸ナトリウム)
第 16 次	172	80-46-6	p-(1, 1-dimethylpropyl)phenol p-(1, 1-ジメチルプロピル)フェノール、4-tert-アミルフェノールなど
	173	_	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] 4-ヘプチルフェノール、分岐および直鎖[フェノールの4の位置で炭素数7の直鎖および/また分岐したアルキル鎖が共有結合している物質、個々の異性体やその組合せのどれでもを含んだ UVCB 物質および well-defined 物質(組成等が分かっている物質)を含む]
第17次	174	355-46-4	Perfluorohexane-1-sulphonic acid and its salts トリデカフルオロ-1-ヘキサンスルホン酸、ペルフルオロヘキサンスルホン酸、パーフルオロヘキサンスルホン酸とその塩
	175	218-01-9	Chrysene クリセン、ベンゾ[a]フェナントレン
	176	56-55-3	Benz[a]anthracene ベンズ[a]アントラセン
	177	10325-94-7	Cadmium nitrate 硝酸カドミウム
	178	21041-95-2	Cadmium hydroxide 水酸化カドミウム
第 18 次	179	513-78-0	Radmium carbonate 炭酸カドミウム
	180	_	1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo [12.2.1.16,9,02,13.05,10] octadeca7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and synisomers or any combination thereof] 1,6,7,8,9,14,15,16,17,17,18,18- ドデカクロロペンタシクロ[12.2.1.16,9.02,13.05,10] オクタデカ-7,15-ジェン("デクロランプラス"TM) [個々の anti-およびsyn-の異性体、またはその組合せを含む]
	181	_	Reaction products of 1, 3, 4-thiadiazolidine-2, 5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ?0.1% w/w 4-heptylphenol, branched and linear 1, 3, 4-チアジアソリジン-2, 5-ジチオン、ホルムアルデヒド、4-ヘプチルフェノール、分岐および直鎖(RP-HP) [0.1wt%以上の4-ヘプチルフェノール、分岐および直鎖]の反応性生物
	182	556-67-2	Octamethylcyclotetrasiloxane (D4) オクタメチルシクロテトラシロキサン(D4)
	183	541-02-6	Decamethylcyclopentasiloxane (D5) デカメチルシクロペンタシロキサン (D5)
	184	540-97-6	Dodecamethylcyclohexasiloxane(D6) ドデカメチルシクロヘキサシロキサン (D6) Lead
	185	7439-92-1	Lead 鉛 Disodium Octaborate
第 19 次		12008-41-2	からい de
		191-24-2	ベンゾ[ghi]ペリレン
		61788-32-7	Terphenyl, hydrogenated 水素化ターフェニル、水素化テルフェニル Ethylenediamine(EDA)
		107-15-3 552-30-7	エチレンジアミン Benzene-1, 2, 4-tricarboxylic acid 1, 2 anhydride(trimellitic anhydride)(TMA) 1, 2, 4-ベンゼントリカルボン酸 1, 2-無水物(トリメリット酸無水物)、無水トリメトリット酸
		84-61-7	Dicyclohexyl phthalate(DCHP)
		6807-17-6	フタル酸ジシクロヘキシル (DCHP) 2, 2-bis (4'-hydroxyphenyl) -4-methylpentane 2, 2-ビス (4-ヒドロキシフェニル) -4-メチルペンタン、 4, 4'-(1, 3-ジメチルブチリデン) ジフェノール
	193	207-08-9	Benzo[k]fluoranthene ベンゾ[k]フルオランテン
第 20 次	194	206-44-0	Fluoranthene フルオランテン
	195	85-01-8	Phenanthrene フェナントレン
	196	129-00-0	Pyrene PUV
	197	15087-24-8	1, 7, 7-trimethyl-3- (phenylmethylene) bicyclo[2. 2. 1]heptan-2-one 1, 7, 7-トリメチル-3- (フェニルメチレン) ビシクロ[2. 2. 1] ヘプタン-2-オン
第 21 次	198	110-49-6	2-methoxyethyl acetate 2-メトキシエチルアセテート、エチレングリコールモノメチルエーテルアセテート

	199	_	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geqq$ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) エリン酸トリス(直鎖、分岐鎖 4-ノニルフェニル) (TNPP) (直鎖、分岐鎖 4-ノニルフェノール(4NP) を 0.1w/w以上含有するもの)
	200	_	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) 2,3,3,3-テトラフルオロ-2-(ヘブタフルオロプロポキシ) プロピオン酸とその塩、その酸ハロゲン化物(各異性体およびその混合物を含む)
	201	98-54-4	4-tert-butylphenol 4-tert-ブチルフェノール
	202	71850-09-4	Diisohexyl phthalate フタル酸ジイソヘキシル
	203	119313-12-1	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone 2-ベンジル-2-ジメチルアミノ-4'-モルホリノブチロフェノン
第 22 次	204	71868-10-5	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one 2-メチル-1-(4-メチルチオフェニル)-2-モルホリノプロパン-1-オン
	205	_	Perfluorobutane sulfonic acid (PFB ) and its salts パーフルオロブタンスルホン酸 (PFB ) およびその塩
		1072-63-5	l-vinylimidazole l-ビニルイミダゾール
		693-98-1	2-methylimidazole
第 23 次			2-メチルイミダゾール Butyl_4-hydroxybenzoate
		94-26-8	4-ヒドロキシ安息香酸ブチル Dibutylbis(pentane-2, 4-dionato-0, 0') tin
		22673-19-4	ジブチルビス (2, 4´ーペンタンジオナト) スズ (IV) bis(2-(2-methoxyethoxy)ethyl) ether
-	210	143-24-8	ビス (2-(2-メトキシエトキシ) エチル) エーテル Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane,
第 24 次	211	_	dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety ジオクチルスズジラウレートスタンナンのジオクチル誘導体、ビス(ココ アシルオキシ)誘導体 他のスタンナンのジオクチル誘導体、ビス(脂肪族アシルオキシ)誘導体(C12 が脂肪族アシルオキシ部位の主要な炭素数である)
	212	_	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers 2-(4-tert-ブチルベンジル) プロピオンアルデヒドおよびその各立体異性体
		13840-56-7	Orthoboric acid, sodium salt ホウ酸のナトリウム塩
		3296-90-0	2, 2-bis (bromomethyl) propane1, 3-dio1 (BMP);
		0200 00 0	2, 2-ビス(ブロモメチル) プロパン-1, 3-ジオール (BMP)
		36483-57-5 1522-92-5	2, 2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2, 2-bis(bromomethyl)-1-propanol (TBNPA); 2, 2-ジメチルプロパン-1-オール、トリブロモ誘導体 3-ブロモ-2, 2-ビス(ブロモメチル) -1-プロパノール (TBNPA)
		96-13-9	2,3-dibromo-1-propanol (2,3-DBPA) 2,3-ジプロモ-1-プロパノール (2,3-DBPA)
第 25 次	215	111-30-8	Glutaral グルタラール
	216	_	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17] 中鎖塩素化パラフィン(MCCP)[炭素鎖が C14 から C17 の範囲にある直鎖クロロアルカンが 80%以上含まれる UVCB 物質]
	217	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear chains from oligomerisation, covering any individual isomers and/ or combinations then (PDDP)  フェノールのアルキル化物(主にパラ位)(オリゴマー化したものから C12 リッチの分岐鎖また「ルキル鎖を有する)。個々の異性体および混合物、それらの組み合わせを含む。	
			(PDDP; p-dodecylphenol, p-ドデシルフェノール) 1,4-dioxane
	218	123-91-1	1, 4-ジオキサン
	219	77-40-7	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B) 4,4'-(1-メチルプロピリデン) ビスフェノール (ビスフェノールB)
	220	119-47-1	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC) 6.6'-ジ-tert-ブチル-2.2'-メチレンジ-p-クレゾール(DBMC)
	221	1067-53-4	tris(2-methoxyethoxy) vinylsilane
第 26 次	222	_	トリス(2-メトキシエトキシ)ビニルシラン (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (±)-1,7,7-トリメチル-3-[(4-メチルフェニル)メチレン]ビシクロ[2.2.1]ヘプタン-2-オン の個々の 異性体および/またはそれらの組み合わせのいずれかを含む (4-MBC)
	223	255881-94-8	- (tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) 0-(isopropyl or isobutyl or 2-ethylhexyl) 0-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate - (トリシクロ[5.2.1.0'2,6]デカ-3-エン-8(or 9)-イル) 0-(イソプロビル or イソブチル or 2-エチルヘキシル) 0-(イソプロビル or イソブチル or 2-エチルヘキシル) ホスホロジチオエート
第 27 次	224	924-42-5	N-(hydroxymethyl)acrylamide N-(ヒドロキシメチル)アクリルアミド
	225	37853-59-1	1, 1'-[ethane-1, 2-diylbisoxy]bis[2, 4, 6-tribromobenzene] 1, 1'-[エタン-1, 2-ジイルビスイソオキシ] ビス[2, 4, 6-トリブロモベンゼン]
	226	79-94-7	2, 2', 6, 6'-テトラブロモ-4, 4'-イソプロピリデンジフェノール
		80-09-1	2, 2', 6, 6'-tetrabromo-4, 4'-isopropylidenediphenol 4, 4'-スルホニルジフェノール
			4,4'-sulphonyldiphenol メタホウ酸バリウム
_	228	13701-59-2	Barium diboron tetraoxide テトラブロモフタル酸ビス(2-エチルヘキシル) (個々の異性体および/またはその組み合わせのいず
28th	229	_	れかをカバーしたもの) Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof
	230	4247-02-3	4-ヒドロキシ安息香酸イソブチル Isobutyl 4-hydroxybenzoate
	231	108-78-1	メラミン (モノマー)
			Melamine パーフルオロヘプタン酸およびその塩
	232	_	Perfluoroheptanoic acid and its salts 2, 2, 3, 3, 5, 5, 6, 6-オクタフルオロ-4-(1, 1, 1, 2, 3, 3, 3-ヘプタフルオロプロパン-2-イル) モルホリンと
	233	_	2,2,3,3,3,5,5,6,6-オクタフルオロー4-(ヘブタフルオロプロビル)モルオリンの反応生成物 reaction mass of 2,2,3,3,5,5,6,6-doctafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine

RoHS Exemptions list (Annex III and IV)

RoHS Directive

 $\underline{\text{https://environment.ec.\,europa.\,eu/topics/waste-and-recycling/rohs-directive\_en}}$ 

RoHS Directive (consolidated version

 $\underline{\text{https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1584116022829\&uri=CELEX:02011L0065-20200301}}$ 

Exemptions Procedu

 $\underline{ \text{https://environment.ec.\,europa.\,eu/topics/waste-and-recycling/rohs-directive/implementation-rohs-directive\_en} \\$ 

Exemptions list

 $\underline{\text{https://environment.ec.europa.eu/document/download/683f0651-ffbd-4f2b-a070-c67311203c79\_en?filename=} Exemptions \%201 ist \%20\%20 validity \%20 and \%20 rolling \%20 plan Jan 2023\_1246033057. xlsx$ 

No.	Exemption  Mercury in single capped (compact) fluorescent lamps not	適用除外用途 和訳 片口金 (コンパクト形) 蛍光ランプに含まれる1パーナー当たりの含有	Scope and dates of applicability	有効期限 和訳
	exceeding (per burner): For general lighting purposes < 30 W: 5 mg	用日本 (ユンハット FND) 虫ルフンフに占まれる 1ハーブーヨにりの占有量が次の量を超えない水銀一般照明用で 30W 未満:5mg	Expires on 31 December 2011;	- 2011年12月31日まで
1 (a) 1 (b)	For general lighting purposes ≧ 30 W and < 50 W: 5 mg	一般照明用で 30W 以上 50W 未満:5mg	3,5 mg may be used per burner after 31 December 2011 until 31 December 2012; Expires on 31 December 2011;	<ul> <li>・2012年12月31日以降: 2.5mg/バーナー</li> <li>・2011年12月31日まで</li> </ul>
1(c)	For general lighting purposes ≧ 50 W and <150 W: 5 mg	一般照明用で 50W 以上 150W 未満:5mg	3,5 mg may be used per burner after 31 December 2011	- 2011 年 12 月 31 日以降 : 3.5mg/バーナー
1 (d)	For general lighting purposes ≧ 150 W: 15 mg	一般照明用で 150W 以上: 15mg		
	For general lighting purposes with circular or square structural shape and tube diameter ≦ 17 mm	円形または四角型の一般照明用で、かつチューブの直径 17mm 以下	No limitation of use until 31 December 2011; 7 mg may be used per burner after 31 December 2011	・2011 年 12 月 31 日まで制限なし ・2011 年 12 月 31 日以降: 7mg/バーナー
	For special purposes: 5 mg  For general lighting purposes < 30 W with a lifetime equal or	特殊用: 5mg	P	・2017年12月31日まで
_	For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg Mercury in double-capped linear fluorescent lamps for general	- 般照明用途の2口金直管蛍光ランプに含まれるランプ当たりの含有量	Expires on 31 December 2017	· 2017 # 12 月 31 日まで -
2(a)(1)	lighting purposes not exceeding (per lamp): Tri-band phosphor with normal lifetime and a tube diameter< 9mm (e.g. T2): 5mg	が次の量を超えない水銀 通常寿命の3波長形、管径 9mm 未満 (例 T2):5mg	Expires on 31 December 2011; 4 mg may be used per lamp after 31 December 2011	- 2011年12月31日まで - 2011年12月31日以降: 4mg/ランプ
	Tri-band phosphor with normal lifetime and a tube diameter ≧ 9 mm and ≦ 17 mm (e.g. T5): 5 mg	標準寿命の3波長形蛍光ランプで管径9mm以上17mm以下(例 T5):5mg	Expires on 31 December 2011; 3 mg may be used per lamp after 31 December 2011	・2011年12月31日まで ・2011年12月31日以降: 3mg/ランプ
	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≦ 28 mm (e.g. T8): 5 mg Tri-band phosphor with normal lifetime and a tube diameter >	標準寿命の3波長形蛍光ランプで管径17mm 超28mm以下(例 T8):5mg 標準寿命の3波長形蛍光ランプで管径28mm 超(例 T12):5mg	Expires on 31 December 2011; 3,5 mg may be used per lamp after 31 December 2011 Expires on 31 December 2012;	- 2011年12月31日まで - 2011年12月31日以降: 3.5mg/ランプ - 2012年12月31日よで
	28 mm (e.g. T12): 5 mg Tri-band phosphor with long lifetime (≧ 25000 h): 8 mg	長寿命 (25000 時間以上) の 3 液長形蛍光ランプ:8mg	3,5 mg may be used per lamp after 31 December 2012  Expires on 31 December 2011; 5 mg may be used per lamp after 31 December 2011	- 2012年12月31日以降: 3.5mg/ランプ - 2011年12月31日以降: 5mg/ランプ - 2011年12月31日以降: 5mg/ランプ
	Mercury in other fluorescent lamps not exceeding (per lamp):  Linear halophosphate lamps with tube > 28 mm (e.g. T10 and	その他の蛍光ランプに含まれるランプ当たりの含有量が次の量を超えない水銀 直管ハロ燐酸ランプで管径 28mm 超 (例 T10 および T12): 10mg		(無効)
2 (b) (2)	T12): 10 mg Non-linear halophosphate lamps (all diameters): 15 mg	  非直管のハロ燐酸ランプ(管径の規定なし): 15mg	amparate an are special action	(無効)
	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9) Lamps for other general lighting and special purposes (e.g.	非直管の3波長形蛍光ランプで管径17mm超(例 T9)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011 No limitation of use until 31 December 2011;	- 2011 年 12 月 31 日まで制限なし - 2011 年 12 月 31 日以降: 15mg/ランプ - 2011 年 12 月 31 日まで制限なし
	induction lamps) Mercury in cold cathode fluorescent lamps and external	特殊用途の冷陰極蛍光ランプおよび外部電極蛍光ランプ (CCFL および	15 mg may be used per lamp after 31 December 2011	・2011年12月31日以降:15mg/ランプ
	electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp): hort length (≦ 500 mm)	EEFL) に含まれる、ランプ当たりの含有量が次の量を超えない水銀 短型ランプ (500mm以下)	No limitation of use until 31 December 2011;	・2011 年 12 月 31 日まで制限なし・2011 年 12 月 31 日以降:
3 (b)	Medium length (> 500 mm and ≦ 1500 mm)	中型ランプ (500mm 超、1500mm 以下)	3,5 mg may be used per lamp after 31 December 2011 No limitation of use until 31 December 2011; 5 mg may be used per lamp after 31 December 2011	3. 5mg/ランプ ・2011 年 12 月 31 日まで制限なし ・2011 年 12 月 31 日以降: 5mg/ランプ
	Long length (> 1500 mm)	長型ランプ(1500mm 超)	No limitation of use until 31 December 2011; 13 mg may be used per lamp after 31 December 2011	・2011 年 12 月 31 日まで制限なし ・2011 年 12 月 31 日以降: 13mg/ランプ
4 (a)	Mercury in other low pressure discharge lamps (per lamp)  Mercury in High Pressure odium (vapour) lamps for general	その他の低圧放電管ランプに含まれるランプ当たりの水銀 平均演色評価数が60を超えるように改善された一般照明用の高圧ナト	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011	・2011 年 12 月 31 日まで制限なし ・2011 年 12 月 31 日以降: 15mg/ランプ -
	improved colour rendering index Ra > 60:  P \leq 155 W	リウム (蒸気) ランプに含まれる、ランプ中の含有量が1パーナー当たり次の量を超えない水銀 P≦155W	No limitation of use until 31 December 2011;	・2011年12月31日まで制限なし
	P ≤ 155 W 155 W < P ≤ 405 W	P≤155W 155W <p≤405w< td=""><td>30 mg may be used per burner after 31 December 2011 No limitation of use until 31 December 2011;</td><td><ul> <li>・2011年12月31日以降:30mg/バーナー</li> <li>・2011年12月31日まで制限なし</li> </ul></td></p≤405w<>	30 mg may be used per burner after 31 December 2011 No limitation of use until 31 December 2011;	<ul> <li>・2011年12月31日以降:30mg/バーナー</li> <li>・2011年12月31日まで制限なし</li> </ul>
4(b)-III	P > 405 W	405W < P	40 mg may be used per burner after 31 December 2011 No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011	- 2011年12月31日以際 : 40mg/バーナー - 2011年12月31日よで制限なし - 2011年12月31日以際 : 40mg/バーナー
	Mercury in other High Pressure odium (vapour) lamps for general lighting purposes not exceeding (per burner): P ≦ 155 W	その他の一般照明用の高圧ナトリウム (蒸気) ランプに含まれるランプ 中の含有量が 1 パーナー当たり次の量を超えない水銀 P≦155W	No limitation of use until 31 December 2011;	- 2011年12月31日まで制限なし
	155 W < P ≤ 405 W	155W≦P<405W	25 mg may be used per burner after 31 December 2011 No limitation of use until 31 December 2011;	・2011 年 12 月 31 日以降: 25mg/バーナー ・2011 年 12 月 31 日まで制限なし
4(c)-III	P > 405 W	P>405W	30 mg may be used per burner after 31 December 2011 No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011	<ul> <li>2011年12月31日以降:30mg/バーナー</li> <li>2011年12月31日まで制限なし</li> <li>2011年12月31日以降:40mg/バーナー</li> </ul>
	Mercury in High Pressure Mercury (vapour) lamps (HPMV) Mercury in metal halide lamps (MH)	高圧水銀 (蒸気) ランプ (HPMV)に含まれる水銀金属ハロゲン化物ランプ (MH) に含まれる水銀	Expires on 13 April 2015	(無効)
	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	本付属書に特に定められていないその他のランプに含まれる水銀		Film set 1
		装飾的あるいは建築上の専門的な照明設備やライトアートワークのネオンサイン用の手作業で製作される発光放電管中の水銀。水銀含有量は、以下の通りに制限される:	Expires on 31 December 2018	(無効)
4 (g)	follows:  (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor	(a)20℃以下の温度で感光する屋外または屋内アブリケーション用とし て電極対あたり 20mg、チューブ長 1cm あたり 0.3mg (ただし 80mg 以下		
	applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications.	のこと) (b)他の全ての屋内アプリケーション用として電極対あたり 15mg、チューブ長 1cm あたり 0.24mg(ただし 80mg 以下のこと)		
5 (b)	Lead in glass of cathode ray tubes Lead in glass of fluorescent tubes not exceeding 0,2 % by	CRT (ブラウン管、冷極線管) のガラスに含まれる鉛 蛍光管のガラスに含まれる 0. 2wt%を超えない鉛	Exemption expired for cat 1 to 7, 10	(無効)
	weight Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight	機械用鉄合金と亜鉛メッキ鋼に含まれる 0.35wt%以下の鉛	21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and	・体外診断用医療機器および産業用監視・制御機器を除くカテゴリ8、9:2021年7月21日
6 (a)	and in garvanised sceer containing up to 0,550 % lead by weight		control instruments; 21 July 2023 for category 8 in vitro diagnostic medical	<ul> <li>カテゴリ8体外診断用医療機器: 2023年7月21日</li> <li>カテゴリ9産業用監視・制御機器、カテゴリ11: 2024年7月21日</li> </ul>
	Lead as an alloying element in steel for machining purposes	機械加工用の鋼材中に合金成分として含まれる 0.35wt%の鉛および バッ	devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category11.  Expires on 21 July 2021 for categories 1-7 and 10.	カテゴリ 1~7、10 について有効期限: 2021 年 7 月 21 日
	cear as an arroying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	チ式の溶融亜鉛めっき鋼材部品中に含まれる 0.2wt%までの鉛		
	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	アルミニウムに合金成分として含まれる 0.4wt%までの鉛	21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments;	・体外診断用医療機器および産業用監視・制御機器を除くカテゴリ8、9:2021年7月21日
6 (b)			21 July 2023 for category 8 in vitro diagnostic medical devices;	・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日
6 (b) -I	Lead as an alloying element in aluminium containing up to	鉛を含有するアルミニウムのスクラップをリサイクルして得られたアル	instruments, and for category 11.	・カテゴリ 9 産業用監視・制御機器、カテゴリ 11:2024 年 7 月 21 日 カテゴリ 1~7、10 について有効期限:2021 年 7 月 21 日
	0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling  Lead as an alloying element in aluminium for machining	まニウムに合金成分として含まれる 0.4wt%までの鉛 機械加工用のアルミニウムに合金成分として含まれる 0.4wt%までの鉛		カテゴリ1~7、10 について有効期限: 2021 年 5 月 18 日
0(0)-11	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight  Copper alloy containing up to 4 % lead by weight	機械加工用のアルミニリムに合金放分として含まれる 0.4wt%までの鉛 銅合金に含まれる 4wt%までの鉛	21 July 2021 for categories 1-7 and 10,	・カテゴリ 1~7、10:2021 年7月21日
0/3			21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments,	<ul><li>・体外診断用医療機器および産業用監視・制御機器を除くカテゴリ8、9:2021年7月21日</li></ul>
6(c)			21 July 2023 for category 8 in vitro diagnostic medical devices,	<ul> <li>カテゴリ8体外診断用医療機器:2023年7月21日</li> <li>カテゴリ9産業用監視・制御機器、カテゴリ11:2024年7月21日</li> </ul>
	Lead in high melting temperature type solders (i.e. lead-		instruments, and for category 11. Applies to categories 1-7 and 10 (except applications covered	・カテゴリ 1~7、10 (本付属書の 24 項でカバーされる範囲を除く): 2021 年 7 月 21 日
	based alloys containing 85 % by weight or more lead)	れる鉛	by point 24 of this Annex) and expires on 21 July 2021. For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments	・体外診断用医療機器および産業用監視・制御機器を除くカテゴリ 8、9:2021年7月21日
7 (a)			expires on 21 July 2021. For category 8 in vitro diagnostic medical devices expires on 21 July 2023.	<ul> <li>カテゴリ8体外診断用医療機器:2023年7月21日</li> <li>カテゴリ9産業用監視・制御機器、カテゴリ11:2024年7月21日</li> </ul>
	Lead in solders for servers, storage and storage array	サーバ、ストレージおよびストレージアレイシステム、信号の切替え・	For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.	・
7 (b)	systems, network infrastructure equipment for switching, signalling, transmission, and network management for	ザーバ、ストレーンおよいストレーンプレインステム、信号の切替え・ 送受信・伝送および電気通信ネットワーク管理用のネットワーク基盤設 備のんだに含まれる鉛		-
	telecommunications Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors,	電気電子部品中のコンデンサ中の誘電体セラミック以外 (例えば圧電素 子) のガラスまた セラミック、また ガラスまたはセラミックを母材と	under point 34) and expires on 21 July 2021.	
7 (c)-I	e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	する化合物中に含まれる鉛	For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021.	<ul> <li>体外診断用医療機器および産業用監視・制御機器を除くカテゴリ8、9:2021年7月21日</li> </ul>
. (0/ 1			For category 9 industrial monitoring and control instruments.	<ul><li>・カテゴリ8体外診断用医療機器: 2023年7月21日</li><li>・カテゴリ9産業用監視・制御機器、カテゴリ11: 2024年7月21日</li></ul>
	Lead in dielectric ceramic in capacitors for a rated voltage	定格電圧が AC125V または DC250V またはそれ以上のコンデンサ内の誘電	and for category 11 expires on 21 July 2024.  Does not apply to applications covered by point 7(c)-I and	この附属書の No. 7(c)-I, 7(c)-IV でカバーされる用途に適用されない。
	of 125 V AC or 250 V DC or higher	体セラミック中の鉛	7(c)-IV of this Annex. 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro	・カテゴリ 1~7、10:2021 年 7 月 21 日 ・体外診断用医療機器・産業用監視・制御機器以外のカテゴリ 8、9:2021 年 7 月 21 日
7(c)-II			diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical	・カテゴリ8体外診断用医療機器: 2023年7月21日 ・カテゴリ9産業用監視・制御機器、カテゴリ11: 2024年7月21日
7/ \		会按继行是 (g)gry 全土 L boosen 土地 · · · · · · · · · · · · · · · · · ·	devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.	
/(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	定格電圧が AC125V または DC250V 未満のコンデンサ中の誘電体セラミックに含まれる鉛	spare parts for EEE placed on the market before 1 January 2013.	
	Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete semiconductors	IC(集積回路)またはディスクリート半導体の一部品であるコンデンサ 用の PZT 系誘電体セラミック材料中の鉛	21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and	- カテゴリ 1〜7、10: 2021 年7月 21日 ・体外診断用医療機器・産業用監視・制御機器以外のカテゴリ 8、9: 2021 年7月 21日
7(c)-IV			control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial	- カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日 - カテゴリ 9 産業用監視・制御機器、カテゴリ 11: 2024 年 7 月 21 日
		    sワンショットペレットタイプのサーマルカットオフに含まれるカドミウ	monitoring and control instruments, and for category 11.	(無効)
used in s 8(a)		parts for EEE placed on the market before 1 January 2012		
	v_		7/22	(\/or 01 · 202

8 (b)	Cadmium and its compounds in electrical contacts	電気接点中のカドミウムとその化合物	Applies to categories 8, 9 and 11 and expires on:	カテゴリ8、9、11 に適用。有効期限:
0(0)			21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments: 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.	<ul> <li>体外診断用医療機器・産業用監視・制御機器以外のカテゴリ8、9:2021年7月21日</li> <li>カテゴリ8体外診断用医療機器:2023年7月21日</li> <li>カテゴリ9産業用監視・制御機器、カテゴリ11:2024年7月21日</li> </ul>
	Cadmium and its compounds in electrical contacts used in:  - circuit breakers,  - thermal sensing controls,	以下で使用される電気接点中のカドミウムとその化合物 ・回路遮断器 ・熟感知制御器	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.	カテゴリ 1~7、10 に適用。有効期限:2021 年 7 月 21 日
8 (b) -I	- thermal motor protectors (excluding hermetic thermal motorprotectors), - AC switches rated at: - 6 A and more at 250 V AC and more, or	<ul> <li>過熱モータプロテクタ (密閉型過熱モータプロテクタを除く)</li> <li>下記定格の AC スイッチ 250V AC 以上において 6A 以上</li> </ul>		
	- 12 A and more at 125 V AC and more, - DC switches rated at 20 A and more at 18 V DC and more, and - switches for use at voltage supply frequency?			
	200 Hz.  Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 %	吸収型冷蔵庫中のカーボン・スチール冷却システムの防錆用として冷却 溶液中に含まれる 0.75wt%までの六価クロム	Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and	カテゴリ 8、9、11 に適用。有効期限: ・体外診断用医療機器・産業用監視・制御機器以外のカテゴリ 8、9:2021 年 7 月 21 日
9	by weight in the cooling solution		diagnostic medical devices and industrial monitoring and control instruments, 21 July 2023 for category 8 in vitro diagnostic medical devices, 21 July 2024 for category 9 industrial	・カテゴリ8体外診断用医療機器: 2023年7月21日 ・カテゴリ9産業用監視・制御機器、カテゴリ11: 2024年7月21日
	Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel	一定の条件下で75W未満の平均使用電力となる電気ヒーターを使用した 吸収型冷蔵庫中のカーボン・スチール冷却システムの防錆用として冷却	monitoring and control instruments, and for category 11. Applies to categories 1-7 and 10 and expires on 5 March 2021.	カテゴリ1~7、10 について有効期限: 2021 年 3 月 5 日
	cooling systems of absorption refrigerators (including minibars) designed to operate fully or partly with electrical heater, having an average utilised power input < 75 W at constant running conditions	溶液中に含まれる 0.75wt%までの六価クロム		
	Constant running conditions Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators:	吸収型冷蔵庫中のカーボン・スチール冷却システムの防錆用として冷却 溶液中に含まれる 0.75wt%までの六価クロム	Applies to categories 1-7 and 10 and expires on 21 July 2021.	カテゴリ 1~7、10 について有効期限: 2021 年 7 月 21 日
9(a)- II	redsigned to operate fully or partly with electrical heater, having an average utilised power input ≧ 75 W at constant running conditions, —designed to fully operate with non-	一定の条件下で75W未満の平均使用電力となる電気ヒーターを使用したもの電気ヒーターなしのもの。		
	electrical heater.  Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and	冷媒を含有している暖房、換気、空調および冷凍(HVADR)機器用のコ ンプレッサー中のベアリング・シェルおよびブッシュに含まれる鉛	Applies to categories 8, 9 and 11; expires on: 21 July 2023 for category 8 in vitro diagnostic medical	カテゴリ8、9、11 に適用;有効期限 ・カテゴリ8 体外診断用医療機器: 2023 年 7 月 21 日
9 (b)	refrigeration (HVACR) applications		devices, 21 July 2024 for category 9 industrial monitoring and control 21 July 2021 for other subcategories of categories 8 and 9.	・カデゴリ9 産業用監視・制御機器、カテゴリ 11:2024 年 7 月 21 日 ・カテゴリ 8、9 の他のサブカテゴリ: 2021 年 7 月 21 日
- (1)	Lead in bearing shells and bushes for refrigerant- containing hermetic scroll compressors with a stated	冷媒を含有している暖房、換気、空調および冷凍(HVADR)機器 用の9kW以下の電力入力の密閉型スクロールコンプレッサー中の	Applies to category 1; expires on 21 July 2019.	(無効)
(I) 8(P)-	electrical power input equal or below 9 kW for heating, ventilation, air conditioning and refrigeration (HVACR)	ベアリング・シェルおよびブッシュに含まれる鉛		
11(a)	applications Lead used in C-press compliant pin connector systems	C-プレス・コンプライアント・ピン・コネクタシステムに用いら	May be used in spare parts for EEE placed on the worket	(年7年)
		れる鉛 C-プレス・コンプライアント・ピン以外のコネクタシステムに用	before 24 eptember 2010	(無効)
11(b)	Lead used in other than C-press compliant pin connector systems	C-プレス・コンファイアント・ピン以外のコネクタシステムに用いられる鉛	used in spare parts for EEE placed on the market before	\.m.741
12	Lead as a coating material for the thermal conduction	熱伝導モジュール形Cリング向けコーティング材料としての鉛	1 January 2013  May be used in spare parts for EEE placed on the market	(無効)
	module C-ring  Lead in white glasses used for optical applications	光学機器用の白色ガラスに含まれる鉛	before 24 eptember 2010  Applies to all categories; expires on: 21 July 2023 for category 8 in vitro diagnostic	全てのカテゴリに適用;有効期限
13 (a)			medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments and	・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日 ・カテゴリ 9 産業用監視・制御機器、カテゴリ 11: 2024 年 7 月 21 日
			for category 11; 21 July 2021 for all other categories and subcategories	
	Cadmium and lead in filter glasses and glasses used for reflectance standards	フィルタガラスおよび標準反射板のガラス中に含まれるカドミウ ムおよび鉛	Applies to categories 8, 9 and 11; expires on: 21 July 2023 for category 8 in vitro diagnostic medical	カテゴリ 8、9、11 に適用;有効期限 ・カテゴリ 8 体外診断用医療機器:2023 年 7 月 21 日
13 (b)			devices; 21 July 2024 for category 9 industrial monitoring and	カテゴリ 9 産業用監視・制御機器、カテゴリ 11:2024年7月21日     カテゴリ 8、9 の他のサブカテゴリ:2021年7月21日
			control 21 July 2021 for other subcategories of categories 8	
13 (b) -I	Cadmium and lead in filter glasses and glasses used for	イオン着色された光学フィルタガラスタイプ中の鉛	and 9  Applies to categories 1 to 7 and 10; expires on 21 July	カテゴリ1~7、10に適用;有効期限: 2021年7月21日
13 (b) -	reflectance standards  Cadmium in striking optical filter glass types; excludin	g本付属書の 39 項に該当する用途を除く、ストライキング(二次	2021 for categories 1 to 7 and 10 Applies to categories 1 to 7 and 10; expires on 21 July	カテゴリ1~7、10 に適用;有効期限:2021年7月21日
13 (b) -	applications falling under point 39 of this Annex Cadmium and lead in glazes used for reflectance standard	熱処理) 光学フィルタガラスタイプ中のカドミウム 反射標準物質用のグレーズに含まれる鉛およびカドミウム	2021 for categories 1 to 7 and 10 Applies to categories 1 to 7 and 10; expires on 21 July	カテゴリ1~7、10 に適用: 有効期限: 2021 年7月21日
III	-	マイクロプロセッサのピンおよびパッケージ間の接続のための2	2021 for categories 1 to 7 and 10	(無効)
14	the connection between the pins and the package of	種類以上の元素で構成されるはんだに含まれる、含有量が 80wt%	used in spare parts for EEE placed on the market before 1 January 2011	\tag{\tag{\tag{\tag{\tag{\tag{\tag{
	less than 85 % by weight			45-710-0-11-YER #1440B
		IC(集積回路)フリップチップパッケージの内部半導体ダイおよ	Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than in vitro	カテゴリ 8、9、11 に適用。有効期限: - 体外診断用医療機器・産業用監視・制御機器以外のカテゴリ 8、9:2021 年 7 月 21
	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within	びキャリア間における確実な電気接続に使用されるはんだに含ま	diagnostic medical devices and industrial monitoring	_
15	connection between semiconductor die and carrier within integrated circuit flip chip packages	びキャリア間における確実な電気接続に使用されるはんだに含ま れる鉛	diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic	日 ・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日
15	connection between semiconductor die and carrier within integrated circuit flip chip packages		diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and	Ħ
15	connection between semiconductor die and carrier within integrated circuit flip chip packages	れる鉛 以下の基準の少なくとも一つが当て まる際の集積回路フリップチ	diagnostic medical devices and industrial monitoring and control instruments: 21 July 2023 for category 8 in vitro diagnostic medical devices: 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.  Applies to categories 1 to 7 and 10 and expires on 21	日 ・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日
15	connection between semiconductor die and carrier within integrated circuit flip chip packages  Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies:	れる鉛	diagnostic medical devices and industrial monitoring and control instruments: 21 July 2023 for category 8 in vitro diagnostic medical devices: 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.  Applies to categories 1 to 7 and 10 and expires on 21	日 ・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日 ・カテゴリ 9 産業用監視・制御機器、カテゴリ 11: 2024 年 7 月 21 日
	connection between semiconductor die and carrier within integrated circuit flip chip packages  Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies:  — a semiconductor technology node of 90 nm or larger;	いる鉛 以下の基準の少なくとも一つが当てまる際の集積回路フリップチップパッケージ内の半導体ダイとキャリア間における確実な電気接続に必要なはんだに含まれる鉛 90mm以上の半導体テクノロジーノード いかなる半導体テクノロジーノードにおいても単一ダイサイズが	diagnostic medical devices and industrial monitoring and control instruments: 21 July 2023 for category 8 in vitro diagnostic medical devices: 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.  Applies to categories 1 to 7 and 10 and expires on 21	日 ・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日 ・カテゴリ 9 産業用監視・制御機器、カテゴリ 11: 2024 年 7 月 21 日
	connection between semiconductor die and carrier within integrated circuit flip chip packages  Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies:  — a semiconductor technology node of 90 nm	れる鉛 以下の基準の少なくとも一つが当て まる際の集積回路フリップチップパッケージ内の半導体ダイとキャリア間における確実な電気接続に必要なはんだに含まれる鉛 90nm以上の半導体テクノロジーノード	diagnostic medical devices and industrial monitoring and control instruments: 21 July 2023 for category 8 in vitro diagnostic medical devices: 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.  Applies to categories 1 to 7 and 10 and expires on 21	日 ・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日 ・カテゴリ 9 産業用監視・制御機器、カテゴリ 11: 2024 年 7 月 21 日
15(a)	connection between semiconductor die and carrier within integrated circuit flip chip packages  Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies:  — a semiconductor technology node of 90 nm or larger;  — a single die of 300 mm2 or larger in any semiconductor technologynode;	れる鉛 以下の基準の少なくとも一つが当て まる際の集積回路フリップチップパッケージ内の半導体ダイとキャリア間における確実な電気接続に必要なはんだに含まれる鉛 90nm以上の半導体テクノロジーノード いかなる半導体テクノロジーノードにおいても単一ダイサイズが 300mm2 以上 300mm2 以上のダイまたは300mm2 以上のシリコンのインターボー	diagnostic medical devices and industrial monitoring and control instruments:  21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.  Applies to categories 1 to 7 and 10 and expires on 21 July 2021.	日 ・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日 ・カテゴリ 9 産業用監視・制御機器、カテゴリ 11: 2024 年 7 月 21 日
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15(a)  16(a)  17(a)  18(a)  18(b)  18(b)  19(a)	connection between semiconductor die and carrier within integrated circuit flip chip packages  Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies:  a semiconductor technology node of 90 nm or larger;  a single die of 300 mm2 or larger in any semiconductor technologynode;  stacked die packages with die of 300 mm2 or larger, or siliconinterposers of 300 mm2 or larger.  Lead in linear incandescent lamps with silicate coated tubes  Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications  Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as speciality lamps for diazoprinting reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS((Sr, Ba) Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi 2 0 5 :Pb)  Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi 2 0 5 :Pb)  Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi 2 0 5 :Pb)  Lead with PbBisn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact energy saving lamps (E SL)  Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid	以下の基準の少なくとも一つが当てまる際の集積回路フリップチップパッケージ内の半導体ダイとキャリア間における確実な電気接続に必要なはんだに含まれる鉛 90mm以上の半導体テクノロジーノード いかなる半導体テクノロジーノードにおいても単一ダイサイズが 300mm2以上 300mm2以上のダイまたは300mm2以上のシリコンのインターポーザ付きスタック型ダイバッケージ ケイ酸塩(silicate)がコーティングされた管を有する直管白熱電球の鉛 プロフェッショナル向けの複写用途に使用される高輝度放電 (HID)ランプ中の、放射媒体としてのハロゲン化鉛 SMS((Sr, Ba) 2Mg i 207: Pb)等の蛍光体を含む、ジアソ式複写、リソグラフィ、捕虫器、光化学、硬化プロセス用の専用ランプとして使用される放電ランプの蛍光パウダー(1wt%以下の鉛)に活性剤として含まれる鉛 BSP(BaSi205: Pb)等の蛍光体を含む日焼け用ランプとして使用される 放電ランプの蛍光パウダー(1wt%以下の鉛)に活性剤として含まれる鉛 ま常にコンパクトな省エネルギーランプ(EL)中の、主アマルガムとしての特定の組成物 PbBiSn-Hg および PbInSn-Hg、ならびに補助アマルガムとしての PbSn-Hg に含まれる鉛 液晶ディスプレイ(LCD)に使用される平面蛍光ランプの前部および後部基板を接合するために使用される平面蛍光ランプの前部および後部基板を接合するために使用されるブラス中の酸化鉛	diagnostic medical devices and industrial monitoring and control instruments: 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.  Applies to categories 1 to 7 and 10 and expires on 21 July 2021.  Expires on 1 eptember 2013  Exemption expired for cat 1 to 7, 10  Expires on 1 January 2011  21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices: 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.  Applies to categories 5 and 8, excluding applications covered by entry 34 of Annex IV, and expires on 21 July 2021.  Expires on 1 June 2011	日 ・カテゴリ8体外診断用医療機器:2023年7月21日 ・カテゴリ9産業用監視・制御機器、カテゴリ11:2024年7月21日 カテゴリ1~7、10に適用。有効期限:2021年7月21日  (無効) (無効) ・カテゴリ1~7、10:2021年7月21日 ・体外診断用医療機器・産業用監視・制御機器以外のカテゴリ8、9:2021年7月21日 ・カテゴリ9産業用監視・制御機器:2023年7月21日 ・カテゴリ9産業用監視・制御機器、カテゴリ11:2024年7月21日 ・カテゴリ9産業用監視・制御機器、カテゴリ11:2024年7月21日 この附属書IVのNo.34でカバーされる用途を除くカテゴリ5、8に適用。有効期限:2021年7月21日

Annex-A 28/33 (Ver.01: 20230X)

			01 T.1. 9099 F 0 is situalismenti.	. カニブリの休州為範甲医療機関、2022年7月21日
			21 July 2023 for category 8 in vitro diagnostic medical devices: 21 July 2024 for category 9 industrial monitoring and control instruments, and	<ul> <li>カテゴリ8体外診断用医療機器: 2023年7月21日</li> <li>カテゴリ9産業用監視・制御機器、カテゴリ11: 2024年7月21日</li> </ul>
	Cadmium when used in colour printed glass to provide	電気電子機器のディスプレイおよびコントロールパネル中に設置	for category 11.  Annies to categories 1 to 7 and 10 except annications	No. 21(b) または 39 でカバーされる用途を除くカテゴリ 1~7、10 に適用。有効期限:
21 (a)	filtering functions, used as a component in lighting applications installed in displays and control panels of EEE	される照明用途のコンポーネントとして使用されるフィルタ機能		2021年7月21日
21 (b)	Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	ホウケイ酸ガラスやソーダ石灰ガラスへのエナメル塗布用印刷インキに含まれるカドミウム	Applies to categories 1 to 7 and 10 except applications covered by entry 21(a) or 39 and expires on 21 July 2021.	No. 21(a) または 39 でカバーされる用途を除くカテゴリ 1~7、10 に適用。有効期限: 2021 年 7 月 21 日
21 (c)	Lead in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	ホウケイ酸ガラスやソーダ石灰ガラスへのエナメル塗布用印刷インキに含まれる鉛	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.	カテゴリ 1~7、10 に適用。有効期限:2021 年 7 月 21 日
23	Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less		May be used in spare parts for EEE placed on the market before 24 September 2010	(無効)
	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	プログラスの3回 セラミック多層コンデンサを円盤状または平面状に機械加工されたスルーホールへはんだ付けするためのはんだに含まれる鉛		・カテゴリ1~7、10:2021 年 7 月 21 日 ・体外診断用医療機器および産業用監視・制御機器を除くカテゴリ 8、9:2021 年 7 月 21 日
24			21 July 2023 for category 8 in vitro diagnostic medical devices, 21 July 2024 for category 9 industr ial monitoring and control instruments, and for category 11.	・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日 ・カテゴリ 9 産業用監視・制御機器、カテゴリ 11: 2024 年 7 月 21 日
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	表面伝導型電子放出素子ディスプレイ (SED) の構造要素に使用 される、特にシールフリット、フリットリングに含まれる酸化鉛	Exemption expired for cat 1 to 7, 10	(無効)
26	Lead oxide in the glass envelope of black light blue	ブラックライトブルーランプのガラスエンベロープ に含まれる 酸化鉛	Expires on 1 June 2011	(無効)
27		高出力 (125dB PL以上の音響パワーレベルで数時間作動すると規定される) スピーカに使用されるトランスデューサ用のはんだとしての鉛合金	Expired on 24 eptember 2010	(無効)
	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC(*) (*) Council Directive 69/493/EEC of 15 December 1969 on	理事会指令 69/493/EEC の付属書 I (カテゴリ 1、2、3 および 4) で定められているクリスタルガラスに含まれる鉛(*) (*)クリスタルガラスに関する 1969 年 12 月 15 日の理事会指令	21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments;	・カテゴリ1~7、10:2021年7月21日 ・体外診断用医療機器・産業用監視・制御機器以外のカテゴリ8、9:2021年7月21
29	the approximation of the laws of the Member tates relating to crystal glass (OJ L 326, 29.12.1969, p. 36).	69/493/EEC (1969 年 12 月 29 日の 0J L326、p. 36)	21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.	・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日 ・カテゴリ 9 産業用監視・制御機器、カテゴリ 11: 2024 年 7 月 21 日
30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more	音圧レベル 100dB(A)以上の高出力ラウドスピーカで使われるトランスデューサのポイスコイルに直付けされる電気導体の電気的 /機械的なんだ接合部分としてのカドミウム合金		(無効)
31	fluorescent lamps (which e.g. are used for liquid crystal	水銀を含有しない平面蛍光ランプ (例えば、液晶ディスプレイや デザイン用または産業用の照明に使用されるランプ) に使用され るはんだ付け材料中の鉛		(無効)
	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	アルゴンやクリプトンレーザ管のウィンドウアッセンブリを製造 するために用いられるシールフリット中の酸化鉛	21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments;	・カテゴリ1~7、10:2021 年 7 月 21 日 ・体外診断用医療機器・産業用監視・制御機器以外のカテゴリ 8、9:2021 年 7 月 21 日
32			21 July 2023 for category 8 in vitro diagnostic medical devices: 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.	・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日 ・カテゴリ 9 産業用監視・制御機器、カテゴリ 11: 2024 年 7 月 21 日
33	Lead in solders for the soldering of thin copper wires of 100 $\mu$ m diameter and less in power transformers	電源トランス中の直径 100μm以下の細い銅線をはんだ付けする ためのんだ中の鉛	Exemption expired for cat 1 to 7, 10	(無効)
	Lead in cermet-based trimmer potentiometer elements	サーメットベーストリマー電位差計の構成部品中の鉛	21 July 2021 for categories 1-7 and 10, 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments,	・カテゴリ1~7、10:2021年7月21日 ・体外診断用医療機器および産業用監視・制御機器を除くカテゴリ8、9:2021年7月 21日
34			21 July 2023 for category 8 in vitro diagnostic medical devices, 21 July 2024 for category 9 industr ial monitoring and control instruments, and for category 11.	・カテゴリ8体外診断用医療機器: 2023年7月21日 ・カテゴリ9産業用監視・制御機器、カテゴリ11: 2024年7月21日
36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display	DC プラズマディスプレイの陰極スパッタリング抑制剤として使用される1 台当たり最高 30mg までの水銀		(無効)
	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	ホウ酸亜鉛ガラス基板上の高電圧ダイオードのめっき層中の鉛	21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments;	・カテゴリ1~7、10:2021年7月21日 ・体外診断用医療機器・産業用監視・制御機器以外のカテゴリ8、9:2021年7月21日
37			21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.	・カテゴリ8体外診断用医療機器: 2023年7月21日 ・カテゴリ9産業用監視・制御機器、カテゴリ11: 2024年7月21日
38		酸化ベリリウムと結合したアルミニウムに使われる厚膜ベースト 中のカドミウムおよび酸化カドミウム		(無効)
39 (a)	Cadmium selenide in downshifting cadmium-based	ディスプレイの照明用途で使用するダウンシフトカドミウムベースの半導体ナノクリスタル量子ドット中のセレン化カドミウム (ディスプレイスクリーンエリア mm2 あたり<0.2μgのカドミウ	Expires for all categories on 31 October 2019	全てのカテゴリについて 2019 年 10 月 31 日まで
40	screen area)  Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment	ム) プロフェッショナル用のオーディオ機器で利用されるアナログ・ オプトカプラのためのフォトレジスタ中のカドミウム	Expires on 31 December 2013	(無効)
	Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and	電気電子構成部品のはんだ及び端子処理部分、並びに点火用モジュール及びその他の電気電子的エンジン制御システムに用いるプリント配線基板の仕上げ処理部分中にあって、技術的理由から携帯式の燃焼機関	31 March 2022 for categories 1 to 7, 10 and 11; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments;	・カテゴリ1~7、10、11:2022年3月31日 ・体外診断用医療機器・産業用監視・制御機器以外のカテゴリ8、9:2021年7月21日
41	electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes H:1, H:2, H:3 of Directive 97/68/EC of the European Parliament	(欧州議会及び理事会指令 97/68/EC のクラス H:1, H:2, H:3)の クランクケースまたはシリンダー上に直接、またはそれらの内部 に取り付けられねばならないものに含まれる鉛	21 July 2023 for category 8 in vitro diagnostic	・カテゴリ 8 体外診断用医療機器: 2023 年 7 月 21 日 ・カテゴリ 9 産業用監視・制御機器: 2024 年 7 月 21 日
	and of the Council Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment:	道路以外の業務用機器に適用される内燃エンジンを動かすディー ゼル、ガス燃料のペアリングとブッシュ中の鉛。 ーエンジンの総排気量が15L以上	Applies to category 11, excluding applications covered by entry 6(c) of this Annex. Expires on 21 July 2024.	・No. 6eでカバーされる用途を除くカテゴリ 11:2024 年 7 月 21 日
42	-with engine total displacement ≥15 litres; or -with engine total displacement <15 litres and the engine is designed to operate in applications where the	または -エンジンの総排気量が 15L 未満で、そのエンジンが開始から全 負荷の間の時間が 10 秒以下である用途に動作するよう設計され ているか、もしくは鉱業、建設、農業のような過酷で汚い屋外の		
	time between signal to start and full load is required to be less than 10 seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and	環境で通常のメンテナンスが行われていること。		
	agriculture applications. Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not	人が使用することを想定していない、もしくは可塑性物資が人の 粘膜に接触しない、或いは人の皮膚に長期にわたり接触しないこ	Applies to category 11 and expires on 21 July 2024.	・カテゴリ 11: 2024 年 7 月 21 日
	intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed:	とを規定した機器用に設計されたエンジンシステムの、ゴム部品中のフタル酸ビス (2 エチルヘキシル) フタル酸ビス (2 - エチルヘキシル) の濃度 以下の量を超えない		
43	(a) 30 % by weight of the rubber for (i)gasket coatings; (ii)solid-rubber gaskets; or	こと。 (a)以下の(i) ~ (iii) のゴム中の30 重量%		
	(iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine.	(i) ガスケットコーティング (ii) 園形ゴムガスケット		
	Δ.		n/22	(Var.01: 202

(b) 10 % by weight of the rubber for rubber- containing components notreferred to in point (a).	(iii)作業を行うために電気的、機械的、油圧式エネルギーを 使用する少なくとも3個の部品の組み合わせを含み、エンジンに	
For the purposes of this entry, "prolonged contact with	取り付けるゴム部品	
home this serve continuous content of serve then 10	(b) (a) 以外のゴム含有部品中の 10 重量%	
minutes duration or intermittent contact over a period of		
30 minutes, per day.	"人の皮膚に長期にわたる接触"とは、10 分以上の継続的な接触も	
	しくは1日あたり30分以上の接触のこと	
Lead in solder of sensors, actuators, and engine control	位置が固定されている機器(専門家向けの機器であるが、専門で Applies to category 11 and expires on 21 July 2024.	・カテゴリ 11:2024年7月21日
units of combustion engines within the scope of	はないユーザーも使用するもの)に取り付けられ、欧州議会・理	
Regulation (EU) 2016/1628 of the European Parliament and	事会規則	
of the Council (*1), installed in equipment used at fixed	(EU) 2016/1628 に適合している内燃機関のセンサー、アクチュエ	
positions while in operation which is designed for	ーター、およびエンジン制御ユニットのはんだ中の鉛。	
professionals, but also used by non-professional users		

 付属書-A
 22/24
 (02 版: 202206)

KOH	5 適用除外項日一見(ガケコリ 8、9)		
No.	適用除外内容:原文Exemption	適用除外內容:和訳	有効期限 Scope and dates of applicability
Equi	pment utilising or detecting ionising radiation 電離放射		
線の	利用また 検出に使用される機器		T
1	Lead, cadmium and mercury in detectors for ionising	電離放射線用検出器に含まれる鉛、カドミウムおよび水銀	
	radiation.		
2	Lead bearings in X-ray tubes.	X線管中の鉛ベアリング	
3	Lead in electromagnetic radiation amplification devices:	電磁波増幅デバイスに含まれる鉛:マイクロチャンネルプレート	
	micro-channel plate and capillary plate.	およびキャピラリープレート	
	Lead in glass frit of X-ray tubes and image intensifiers and	X線管および蛍光増倍管用のガラスフリット中に含まれる鉛、並び	
4	lead in glass frit binder for assembly of gas lasers and for	にガスレーザの組立て用および電磁放射線を電子に変換する真空 管用のガラスフリットバインダに含まれる鉛	
	vacuum tubes that convert electromagnetic radiation into electrons.	自用のカラベンググドバイングに占まれたの如	
5	Lead in shielding for ionising radiation.	電離放射線用のシールドに含まれる鉛	
	Lead in X-ray test objects.	X 線試験体に含まれる鉛	
	Lead stearate X-ray diffraction crystals.	X 線回折結晶に含まれるステアリン酸鉛	
	Radioactive cadmium isotope source for portable X-ray	携帯型蛍光X線分析装置用の放射性カドミウム同位体源	
	fluorescence spectrometers.		
Sens	ors, detectors and electrodes		
セン	サー、検出器および電極		
1a	Lead and cadmium in ion selective electrodes including glass	pH 電極のガラスを含むイオン選択電極に含まれる鉛およびカドミ	
	of pH electrodes.	ウム	
1b	Lead anodes in electrochemical oxygen sensors.	電気化学的酸素センサーの陽電極に含まれる鉛	
1c	Lead, cadmium and mercury in infra-red light detectors.	赤外線検出器に含まれる鉛、カドミウムおよび水銀	
1d	Mercury in reference electrodes: low chloride mercury	基準電極に含まれる水銀:低塩素の塩化水銀、硫酸水銀および酸	
	chloride, mercury sulphate and mercury oxide.	化水銀	
	rs その		
他		11 ± 1	
	Cadmium in helium-cadmium lasers.	ヘリウムーカドミウムレーザに含まれるカドミウム	
	Lead and cadmium in atomic absorption spectroscopy lamps.	原子吸光分光分析用ランプに含まれる鉛およびカドミウム	
11	Lead in alloys as a superconductor and thermal conductor in MRI.	MRI (磁気共鳴画像診断装置) 中の超伝導体および熱伝導体用の合金に含まれる鉛	
	Lead and cadmium in metallic bonds creating superconducting	MRI (磁気共鳴画像診断装置)、 QUID (超伝導量子干渉計)、NMR	
	magnetic circuits in MRI, QUID, NMR (Nuclear Magnetic	(Nuclear Magnetic Resonance) (磁気共鳴) または FTM	
	Resonance) or FTM (Fourier Transform Mass pectrometer)	(Fourier	2021年6月30日まで
12	detectors.	Transform Mass pectrometer)(フーリエ変換質量分析計)検出器	Expires on 30 June 2021.
		の超伝導磁気回路を構成している金属結合中に含まれる鉛および	
		カドミウム。	
13	Lead in counterweights.	カウンタウェイト中の鉛	
14	Lead in single crystal piezoelectric materials for ultrasonic	超音波トランスデューサ用の単結晶圧電結晶材料に含まれる鉛	
	transducers.		
15	Lead in solders for bonding to ultrasonic transducers.	超音波トランスデューサの接合用んだに含まれる鉛	
	Mercury in very high accuracy capacitance and loss	超高精度キャパシタンスおよび損失測定ブリッジに含まれる水銀	
16	measurement bridges and in high frequency RF switches and	および監視および制御機器に使われる高周波 RF スイッチおよびリ	
	relays in monitoring and control instruments not exceeding 20 mg of mercury per switch or relay.	レーに含まれる水銀であって、1 スイッチまた 1 リレーあたり 20mg を超えないもの	
17	Lead in solders in portable emergency defibrillators.	携帯型緊急用除細動器に使われるはんだに含まれる鉛	
	Lead in solders of high performance infrared imaging modules	8-14μm帯を検出する高性能赤外線画像モジュールに使われるはん	
10	to detect in the range 8-14 $\mu$ m.	5 14 μ m m を 映山 y る 同 圧 能 か ア 赤 画 家 で フュー ア に 医 な れ る は れ る に 含 ま れ る 鉛	
19	Lead in Liquid crystal on silicon (LCo ) displays.	LCo (反射型液晶表示パネル) ディスプレイに含まれる鉛	
	Cadmium in X-ray measurement filters.	X線測定フィルタに含まれるカドミウム	
	Cadmium in phosphor coatings in image intensifiers for X-ray	(1) X線画像用イメージインテンシファイア中の蛍光コーティング	
0.1	images until 31 December 2019 and in spare parts for X-ray	中に含まれるカドミウム	(Arr. +cL.)
21	systems placed on the EU market before 1 January 2020.	(2) 2020 年 1 月 1 日以前に EU 市場に上市された X 線システム用ス	(無効)
		ペアパーツ中に含まれるカドミウム	
	Lead acetate marker for use in stereotactic head frames for	CT および MRI 用の定位ヘッドフレーム、およびガンマ線および粒	
22	use with CT and MRI and in positioning systems for gamma	子線治療装置のための位置決め装置に用いられる酢酸鉛マーカー	2021年6月30日まで
	beam and particle therapy equipment. Expires on 30 June		
00	2021.	<b>電磁性性性値)とささるかる 医療機関の ジョコン ガン レッド等性 サブル</b>	2021 年 5 日 20 日 土 73
23	Lead as an alloying element for bearings and wear surfaces in	電離放射線にさらされる医療機器のベアリングおよび摩耗表面の ための合金要素としての鉛	2021年6月30日まで
	medical equipment exposed to ionising radiation. Expires on 30 June 2021.	ルーツンロ业女ポビレミン如	
2.4	Lead enabling vacuum tight connections between aluminium and	X線イメージインテンシファイア中のアルミニウムと鉄の間の真空	(無効)
	steel in X-ray image intensifiers. Expires on 31 December	気密接続を可能にする鉛	
	2019.		
	Lead in the surface coatings of pin connector systems	通常動作および貯蔵状態でマイナス 20℃以下の温度で永続的に使	
0.5	requiring nonmagnetic connectors which are used durably at a	用されている非磁性コネクタを必要とするピンコネクタシステム	2021年6月20日十万
25	temperature below ? 20 $^{\circ}$ C under normal operating and storage	の表面コーティングに含まれる鉛	2021年6月30日まで
	conditions. Expires on 30 June 2021.		

	Lead in the following applications that are used durably at a temperature below - 20° C under normal operating and storage	通常動作および貯蔵状態でマイナス 20℃未満の温度で永続的に使用される以下に含まれている鉛:	
	conditions:	(a) プリント配線基板上のはんだ、	
	(a) solders on printed circuit boards;	(b) 電気・電子部品の末端のコーティングおよびプリント配線基板のコーティング	
20	(b) termination coatings of electrical and electronic components and coatings of printed circuit boards;	( ) - 4 1 1 1 2 20 1	2021年6月30日まで
	(c) solders for connecting wires and cables; (d) solders connecting transducers and sensors.	(d) トランスデューサおよびセンサを接続するはんだ	·
	Lead in solders of electrical connections to temperature measurement sensors in devices which are designed to be used	マイナス 150℃未満の温度で定期的に使われるように設計されてい	
	periodically at temperatures below - 150 ° C.	る装置の温度測定センサへの電気接続に含まれる鉛。	
	These exemptions expire on 30 June 2021.	(a) この範囲内で使用されるように設計された患者の監視装置を含	
	Lead in	む医療用磁気共鳴画像装置 (MRI) 中の磁石のアイソセンタ周囲の半径 lm 圏内の磁場、または	
	- solders,	(b)粒子線治療のために適用されるサイクロトロン磁石、ビーム輸	
	- termination coatings of electrical and	送およびビームの方向制御のための磁石から距離 1m の範囲内の磁場の中で使用されている以下に含まれている鉛	
	electronic components andprinted circuit boards, - connections of electrical wires, shields and	一はんだ、	
2	enclosed connectors, which are used in		2020年6月30日まで
	(a) magnetic fields within the sphere of 1 m radius around the isocentre of the magnet in medical magnetic resonance	グ、	
	imaging equipment, including patient monitors designed to be used within this sphere, or (b) magnetic fields within 1	<ul><li>一電線、シールドおよび封入されたコネクタの接続部分</li></ul>	
	m distance from the external surfaces of cyclotron magnets, magnets for beam transport and beam direction control		
	applied for particle therapy. Expires on 30 June 2020.		
	Expires on 30 June 2020.  Lead in solders for mounting cadmium telluride and cadmium	テルル化カドミウムおよびテルル化亜鉛カドミウムのデジタルア	
2	Szinc telluride digital array detectors to printed circuit	レイ検出器をプリント配線基板上に搭載させるためのはんだに含	(無効)
	boards. Expires on 31 December 2017.	まれる鉛	
	Lead in alloys, as a superconductor or thermal conductor,	医療機器 (カテゴリ8) 及び/また産業用監視制御機器のクライオ	
91	used in cryocooler cold heads and/or in cryo-cooled cold probes and/or in cryocooled equipotential bonding systems, in	クーラーの冷却ヘッド及び/また クライオクーラーで冷却された 低温プロープ及び/またはクライオクーラーで冷却された等電位ボ	2021 年 6 目 30 日主で
2	medical devices (category 8) and/or in industrial monitoring	ンディングシステム中で使用される超伝導体または熱伝導体とし	2021 4 0 Л 30 н д С
	and control instruments. Expires on 30 June 2021.	ての合金中の鉛	
	Hexavalent chromium in alkali dispensers used to create	(1) X線イメージインテンシファイアにおいて電子銃 を作るために用いられるアルカリディスペンサに含まれる六価ク	
3			(無効)
	2019 and in spare parts for X-ray systems placed on the EU market before 1 January 2020.'	(2) 2020 年 1 月 1 日以前に EU 市場に上市される X 線 システム用スペアパーツに含まれる六価クロム	
	Lead, cadmium, hexavalent chromium, and polybrominated	監視可能な閉ループの BtoB 返却システムからの再利用が行われ、	(a) 体外診断用医療機器以外の医療機器への使
	diphenyl ethers (PBDE) in spare parts recovered from and used for the repair or refurbishment of medical devices, including	さらに各々の部品の再利用が消費者に通知される場合に限り、体	用:
	in vitro diagnostic medical devices, or electron microscopes and their accessories, provided that the reuse takes place in	外診断用医療機器および電子顕微鏡とそのアクセサリを含む医療	2021年7月21日まで
	auditable closed-loop business-to-business return systems and that each reuse of parts is notified to the customer. Expires	機器の修理または改良のために回収されて、使われるスペアパー ツに含まれる鉛、カドミウム、六価クロムとポリプロモジフェニ	(b) 体外診断用医療機器への使用:2023 年 7 月 21
31a	on:	ルエーテル (PBDE)	日まで
	(a) 21 July 2021 for the use in medical devices other than in vitrodiagnostic medical devices;		(c)電子顕微鏡とそのアクセサリへの使用: 2024 年7月21日まで
	(b) 21 July 2023 for the use in in vitro		77.77.27.40.0
	diagnostic medical devices; (c) 21 July 2024 for the use in		
	electron microscopes and their accessories.  Lead in solders on printed circuit boards of detectors and		
	data acquisition units for Positron Emission Tomographs which	核磁気共鳴画像(MRI)機器に組込まれるポジトロン断層法(PET)用検	
3:	are integrated into Magnetic Resonance Imaging equipment.	出器およびデータ収集装置のプリント配線基板のはんだに含まれる 鉛	(無効)
	Expires on 31 December 2019.		
	Lead in solders on populated printed circuit boards used in	携帯型緊急用除細動器を除く、指令 93/42/EEC(医療機器指令)クラス IIa および IIb の携帯型医療機器に使用される部品実装済	
3:	Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators. Expires on 30	みプリント配線基板上のはんだに含まれる鉛	(無効)
	June 2016 for class IIa and on 31 December 2020 for class		
	IIb.		
	Lead as an activator in the fluorescent powder of discharge	BP(Bai205:Pb) 蛍光体を含む体外循環光療法ランプに使用される	
3-	lamps when used for extracorporeal photopheresis lamps containing B P (Ba i 2 0 5 :Pb) phosphors. Expires on 22 July	場合の放電ランプの蛍光パウダー中の活性剤としての鉛	2021年7月22日まで
L	2021.		
	Mercury in cold cathode fluorescent lamps for back-lighting	2017年7月22日より前に上市された産業用の監視および制御機器	
3		で使用されるバックライティング液晶ディスプレイ用の冷陰極蛍光	2024年7月21日まで
	in industrial monitoring and control instruments placed on the market before 22 July 2017. Expires on 21 July 2024.	ランプの中の水銀であって、1 ランプにつき 5mg を超えないもの	
	Lead used in other than C-press compliant pin connector	産業用の監視および制御機器用の C-プレスに準拠したピン・コネ	
	systems for industrial monitoring and control instruments.	クタ・システム以外の中で使われる鉛	
3	Expires on 31 December 2020. May be used after that date in		(無効)
	spare parts for industrial monitoring and control instruments		
	placed on the market before 1 January 2021.		

	systems.  Expires on 31 December 2019. May be used after that date in spare parts for CT and X-ray systems placed on the market before 1 January 2020.  Lead in micro-channel plates (MCPs) used in equipment where at least one of the following properties is present:		以下の日付まで免除有効。
39	(a) a compact size of the detector for electrons or ions, where the spacefor the detector is limited to a maximum of 3 mm/MCP (detector thickness + space for installation of the MCP), a maximum of 6 mm in total, and an alternative design yielding more space for the detector is scientifically and technically impracticable; (b) a two-dimensional spatial resolution for detecting electrons or ions, where at least one of the following applies: (i) a response time shorter than 25 ns: (ii) a sample detection area larger than 149 mm2; (iii) a multiplication factor larger than 1,3 × 103. (c) a response time shorter than 5 ns for detecting electrons or ions; (d) a sample detection area larger than 314 mm2 for detecting electrons or ions; (e) a multiplication factor larger than 4,0 × 107. The exemption expires on the following dates: (a) 21 July 2021 for medical devices and monitoring and controlinstruments: (b) 21 July 2023 for in-vitro diagnostic medical devices; (c) 21 July 2024 for industrial monitoring and control instruments.	(a) 最高 3mm/MCP(検出器の厚さ+MCP 設置スペース)、全体で最高 6mm を限度としたスペースの小さいサイズの電子またはイオン検出器ならびにより大きいスペースを必要とする代替設計でないと科学技術的に代替不可能な検出器 (b) 以下の少なくとも1つが適用される電子またはイオン検出用の二次元の空間分解能: (i) 25ns より短い応答時間 (i) 149mm2 より大きな検出領域 (iii) 1.3×103 より大きい増倍率 (c) 電子またはイオン検出用の5ns より短い応答時間; (d) 電子またはイオン検出用の314mm2 より大きな検出領域 (e) 4.0×107 より大きい増倍率	(a) 医療装置と監視および制御機器: 2021 年 7 月 21 日 (b) 体外診断用医療機器: 2023 年 7 月 21 日 (c) 産業用の監視および制御機器: 2024 年 7 月 21 日
41	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC for industrial monitoring and control instruments. Expires on 31 December 2020. May be used after that date in spare parts for industrial monitoring and control instruments placed on the market before 1 January 2021.  Lead as a thermal stabiliser in polyvinyl chloride (PVC) used as base material in amperometric, potentiometric and conductometric electrochemical sensors which are used in invitro diagnostic medical devices for the analysis of blood and other body fluids and body gases.  Expires on 31 March 2022.		(無効) 2022年3月31日まで
42	Mercury in electric rotating connectors used in intravascular ultrasound imaging systems capable of high operating frequency (> 50 MHz) modes of operation. Expires on 30 June 2019. Cadmium anodes in Hersch cells for oxygen sensors used in	高周波(>50MHz)モードで運転可能な血管内超音波画像処理システム で使われる電気回転コネクタ中の水銀 10ppm 未満の感度が要求される産業用監視・制御機器で使用される	2019年6月30日まで
43	industrial monitoring and control instruments, where sensitivity below 10 ppm is required.  Expires on 15 July 2023.	酸 素センサのためのエルシュ セル (ハーシュ セル) 中のカドミウム アノード	2023年7月15日まで
44	Cadmium in radiation tolerant video camera tubes designed for cameras with a centre resolution greater than 450 TV lines which are used in environments with ionising radiation exposure exceeding 100 Gy/hour and a total dose in excess of 100kGy.  Applies to category 9. Expires on 31 March 2027.	1006y/h を超える電離放射線の曝露があり、かつ総量が 100kGy を超える環境で使用される中央解像度が 450TV line(訳注:アナログカメラにおける水平解像度。画面を左右に横断する直線の本数を解像度の基準とする。)より高いカメラ用に設計された耐放射線ビデオカメラ管の中のカドミウムカテゴリ9:2027年3月31日に終	2027年3月31日まで

33/33 (Ver.01: 20230X) Annex-A