

EEE HCT-202405-05

## The latest EU RoHS exemption list

Updated on May 22, 2024

On February 13, 2003, EU published Directive 2002/95/EC of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

On July 1, 2011, THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION published DIRECTIVE 2011/65/EU (RoHS 2.0) on Official Journal of the European Union, replacing Directive 2002/95/EC.

There are totally 46 entries in RoHS 2.0 Annex III and 49 entries in Annex IV.

On May 21, 2024, the EU issued the RoHS amendment directive (EU) 2024/1416, amending the exemption for cadmium in Annex III of the RoHS Directive for display lighting applications. The amended directive will take effect on the 20th day following its publication in the Official Journal of the European Union.

The following is the latest RoHS 2.0 exemption list, the latest updates are highlight in yellow.

#### **ANNEX III**

Exemption		Scope and dates of applicability	
(EU)2022/2	76 amended directive		
1	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):		
1(a)	For general lighting purposes < 30 W: 2.5 mg	Expires on 24 February 2023	
1(b)	For general lighting purposes ≥ 30 W and < 50 W: 3.5 mg	Expires on 24 February 2023	
1(c)	For general lighting purposes ≥ 50 W and < 150 W: 5 mg	Expires on 24 February 2023	
1(d)	For general lighting purposes ≥ 150 W: 15 mg	Expires on 24 February 2023	
1(e)	For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 5 mg	Expires on 24 February 2023	
(EU)2022/2	(EU)2022/281 amended directive		
1(f)-I	For lamps designed to emit mainly light in the ultraviolet spectrum: 5 mg	Expires on 24 February 2027	
1(f)-II	For special purposes: 5 mg	Expires on 24 February 2025	

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Exemption		Scope and dates of applicability	
(EU)2022/2	(EU)2022/277 amended directive		
1(g)	For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3.5 mg	Expires on 24 August 2023	
(EU)2022/2	284 amended directive		
2(a)	Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):		
2(a)(1)	Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4 mg	Expires on 24 February 2023	
2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 3 mg	Expires on 24 August 2023	
2(a)(3)	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8): 3.5 mg	Expires on 24 August 2023	
2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 3.5 mg	Expires on 24 February 2023	
2(a)(5)	Tri-band phosphor with long lifetime (≥ 25 000 h): 5 mg	Expires on 24 February 2023	
2(b)	Mercury in other fluorescent lamps not exceeding (per lamp):		
2(b)(1)	Linear halophosphate lamps with tube > 28 mm (e.g. T10 and T12): 10 mg	Expires on 13 April 2012	
2(b)(2)	Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016	
(EU)2022/2	282 amended directive		
2(b)(3)	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9): 15 mg	Expires on 24 February 2023; 10 mg may be used per lamp from 25 February 2023 until 24 February 2025	
(EU)2022/287 amended directive			
2(b)(4)-I	Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	Expires on 24 February 2025	
2(b)(4)-II	Lamps emitting mainly light in the ultraviolet spectrum:	Expires on 24 February 2027	
2(b)(4)-III	Emergency lamps: 15 mg	Expires on 24 February 2027	





Exemption		Scope and dates of applicability
(EU)2022/274 amended directive		
3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp):	
3(a)	Short length (≤ 500 mm): 3.5 mg	Expires on 24 February 2025
3(b)	Medium length (> 500 mm and ≤ 1 500 mm): 5 mg	Expires on 24 February 2025
3(c)	Long length (> 1 500 mm): 13 mg	Expires on 24 February 2025
(EU)2022/2	80 amended directive	
4(a)	Mercury in other low pressure discharge lamps (per lamp): 15 mg	Expires on 24 February 2023
4(a)-I	Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lamp-spectral output to be in the ultraviolet spectrum: up to 15 mg mercury may be used per lamp	Expires on 24 February 2027
(EU)2022/2	83 amended directive	
4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 80: P ≤ 105 W: 16 mg may be used per burner	Expires on 24 February 2027
4(b)- I	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60: P ≤ 155 W: 30 mg may be used per burner	Expires on 24 February 2023
4(b)- II	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60: 155 W < P $\leq$ 405 W: 40 mg may be used per burner	Expires on 24 February 2023
4(b)-III	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60: P > 405 W: 40 mg may be used per burner	Expires on 24 February 2023
(EU)2022/275 amended directive		
4(c)	Mercury in other High Pressure Sodium (vapour) lamps	







Exemption		Scope and dates of applicability
	for general lighting purposes not exceeding (per burner):	
4(c)- I	P ≤ 155 W: 20mg	Expires on 24 February 2027
4(c)- II	155 W < P ≤ 405 W: 25mg	Expires on 24 February 2027
4(c)-III	P > 405 W: 25mg	Expires on 24 February 2027
4(d)	Mercury in High Pressure Mercury (vapour) lamps (HPMV)	Expires on 13 April 2015
(EU)2022/2	278 amended directive	
4(e)	Mercury in metal halide lamps (MH)	Expires on 24 February 2027
(EU)2022/2	279 amended directive	
4(f)-I	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	Expires on 24 February 2025
4(f)-II	Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required	Expires on 24 February 2027
4(f)-III	Mercury in high pressure sodium vapour lamps used for horticulture lighting	Expires on 24 February 2027
4(f)-IV	Mercury in lamps emitting light in the ultraviolet spectrum	Expires on 24 February 2027
▼M26 May	y 20, 2014,EU issued amendment directive 2014/76/EU	
4(g)	Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as 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 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.	Expires on 31 December 2018
▼B		
5(a)	Lead in glass of cathode ray tubes	
5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by	







Exemption		Scope and dates of applicability	
	weight		
▼M41 May	18, 2018,EU issued amendment directive (EU) 2018/739		
6(a)	Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight	Expires on:  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnosti c medical devices and industrial monitoring and control instrument s;  — 21 July 2023 for category 8 in vitro diagnostic medical devices;  — 21 July 2024 for category 9 ind ustrial monitoring and control inst ruments, and for category 11.	
6(a)-l	Lead as an alloying 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	Expires on 21 July 2021 for categories 1-7 and 10.	
▼M42 May	18, 2018,EU issued amendment directive (EU) 2018/740		
6(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	Expires on:  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnostic medical devices and industrial mo nitoring 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.	
6(b)-I	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling	Expires on 21 July 2021 for catego ries 1-7 and 10.	
6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	Expires on 18 May 2021 for categ ories 1-7 and 10.	
▼M43 May	▼M43 May 18, 2018,EU issued amendment directive (EU) 2018/741		
6(c)	Copper alloy containing up to 4 % lead by weight	Expires on:	









Exemption		Scope and dates of applicability
		<ul> <li>— 21 July 2021 for categories 1-7 and 10,</li> <li>— 21 July 2021 for categories 8 a nd 9 other than in vitro diagnostic medical devices and industrial m onitoring and control instruments,</li> <li>— 21 July 2023 for category 8 in v itro diagnostic medical devices,</li> <li>— 21 July 2024 for category 9 ind ustrial monitoring and control inst ruments, and for category 11.</li> </ul>
▼M44 May	v 18, 2018,EU issued amendment directive (EU) 2018/742	
7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	Applies to categories 1-7 and 10 (except applications covered 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 expires on 21 July 2021.  For category 8 in vitro diagnostic medical devices expires on 21 July 2023.  For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.
<b>▼</b> B		
7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	
<b>▼</b> M38 May	18, 2018,EU issued amendment directive (EU) 2018/736	
7(c)-l	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	Applies to categories 1-7 and 10 (except applications covered under point 34) and expires on 21 July 2021.

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Exemption		Scope and dates of applicability
		For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021.  For category 8 in vitro diagnostic medical devices expires on 21 July 2023.  For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.
▼M45 Feb	ruary 5, 2019,EU issued amendment directive (EU) 2019/169	
7(c)- II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	Does not apply to applications covered by point 7(c)-I and 7(c)-IV of this Annex.  Expires on:  — 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 instrument s;  — 21 July 2023 for category 8 in vitro diagnostic medical devices;  — 21 July 2024 for category 9 ind ustrial monitoring and control instruments, and for category 11.
<b>▼</b> B		
7(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
▼M46 February 5, 2019,EU issued amendment directive (EU) 2019/170		
7(c)-IV	Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete semiconductors	Expires on:  — 21 July 2021 for categories 1-7  and 10;







Exemption		Scope and dates of applicability
		<ul> <li>— 21 July 2021 for categories 8 a nd 9 other than in vitro diagnosti c medical devices and industrial monitoring and control instrument s;</li> <li>— 21 July 2023 for category 8 in vitro diagnostic medical devices;</li> <li>— 21 July 2024 for category 9 ind ustrial monitoring and control inst ruments, and for category 11.</li> </ul>
<b>▼</b> B		
8(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs	Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012
▼M47 Feb	ruary 5, 2019,EU issued amendment directive (EU) 2019/171	
8(b)	Cadmium and its compounds in electrical contacts	Applies to categories 8, 9 and 11 and expires on:  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnostic medical devices and industrial m onitoring and control instruments;  — 21 July 2023 for category 8 in v itro diagnostic medical devices;  — 21 July 2024 for category 9 ind ustrial monitoring and control inst ruments, and for category 11.
8(b)-I	Cadmium and its compounds in electrical contacts used in:  — circuit breakers, — thermal sensing controls, — thermal motor protectors (excluding hermetic thermal motor protectors), — AC switches rated at:  • 6 A and more at 250 V AC and more, or • 12 A and more at 125 V AC and more,	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.







Exemption		Scope and dates of applicability
	<ul> <li>DC switches rated at 20 A and more at 18 V DC a nd more, and</li> <li>switches for use at voltage supply frequency ≥ 200 Hz.</li> </ul>	
▼M58 Mar	ch 5, 2020,EU issued amendment directive (EU) 2020/361	
9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution	Applies to categories 8, 9 and 11 and expires on:  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnosti c medical devices and industrial monitoring and control instrument s,  — 21 July 2023 for category 8 in vitro diagnostic medical devices,  — 21 July 2024 for category 9 ind ustrial monitoring and control inst ruments, and for category 11.
9(a)-l	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 (including minibars) designed to operate fully or partly with electrical heater, having an average utilised power input < 75 W at constant running conditions	Applies to categories 1-7 and 10 and expires on 5 March 2021.
9(a)-II	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:  — designed 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-electrical heate r.	Applies to categories 1-7 and 10 and expires on 21 July 2021.
January 26, 2023,EU issued amendment directive (EU) 2023/171		
9(a)-III	Up to 0,7 % hexavalent chromium by weight, used as an anticorrosion agent in the working fluid of the carbon	Applies to category 1 and expires on 31 December 2026







Exemption		Scope and dates of applicability	
	steel sealed circuit of gas absorption heat pumps for		
	space and water heating		
9(b)	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	Applies to categories 8, 9 and 11; expires on:  — 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, —21 July 2021 for other subcategories of categories 8 and 9.	
9(b)-(I)	Lead in bearing shells and bushes for refrigerant-containing hermetic scroll compressors with a stated electrical power input equal or below 9 kW for heating, ventilation, air conditioning and refrigeration (HVACR) applications	Applies to category 1; expires on 21 July 2019.	
▼B			
11(a)	Lead used in C-press compliant pin connector systems	May be used in spare parts for EEE placed on the market before 24 September 2010	
11(b)	Lead used in other than C-press compliant pin connector systems	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013	
12	Lead as a coating material for the thermal conduction module C-ring	May be used in spare parts for EEE placed on the market before 24 September 2010	
▼M35 Jun	▼M35 June 16, 2017,EU issued amendment directive (EU) 2017/1011		
13(a)	Lead in white glasses used for optical applications	Applies to all categories; expires on:  — 21 July 2023 for category 8 in vitro diagnostic medical devices;  — 21 July 2024 for category 9 ind	







Exemption		Scope and dates of applicability
		ustrial monitoring and control inst ruments and for category 11; — 21 July 2021 for all other categ ories and subcategories
▼M33 June	e 16, 2017,EU issued amendment directive (EU) 2017/1009	
13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards	Applies to categories 8, 9 and 11; expires on: — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 ind ustrial monitoring and control inst ruments and for category 11; — 21 July 2021 for other subcateg ories of categories 8 and 9
13(b)-(l)	Lead in ion coloured optical filter glass types	
13(b)-(II)	Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex	Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10
13(b)-(III)	Cadmium and lead in glazes used for reflectance standards	
▼B		
14	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight	Expired on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011
▼M48 Feb	ruary 5, 2019,EU issued amendment directive (EU) 2019/172	
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	Applies to categories 8, 9 and 11 and expires on:  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnosti c medical devices and industrial monitoring and control instrument s;  — 21 July 2023 for category 8 in vitro diagnostic medical devices;  — 21 July 2024 for category 9 ind

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Exemption		Scope and dates of applicability
		ustrial monitoring and control inst ruments, and for category 11.
15(a)	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 technology node;  — stacked die packages with die of 300 mm2 or larger, or silicon interposers of 300 mm2 or larger.	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.
<b>▼</b> B		
16	Lead in linear incandescent lamps with silicate coated tubes	Expires on 1 September 2013
17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	
18(a)	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)2MgSi2O7:Pb)	Expired on 1 January 2011
▼M53 Feb	ruary 5, 2019,EU issued amendment directive (EU) 2019/177	
18(b)	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 (BaSi2O5:Pb)	Expires on:  — 21 July 2021 for categories 1-7 and 10;  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnosti c medical devices and industrial monitoring and control instrument s;  — 21 July 2023 for category 8 in vitro diagnostic medical devices;  — 21 July 2024 for category 9 ind ustrial monitoring and control inst





Exemption		Scope and dates of applicability
		ruments, and for category 11.
18(b)-I	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi2O5:Pb) when used in medical phototherapy equipment	Applies to categories 5 and 8, excluding applications covered by entry 34 of Annex IV, and expires on 21 July 2021.
<b>▼</b> B		
19	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 (ESL)	Expires on 1 June 2011
20	Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCDs)	Expires on 1 June 2011
▼M49 Feb	ruary 5, 2019,EU issued amendment directive (EU) 2019/173	
21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Applies to categories 8, 9 and 11 and expires on:  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnosti c medical devices and industrial monitoring and control instrument s;  — 21 July 2023 for category 8 in vitro diagnostic medical devices;  — 21 July 2024 for category 9 ind ustrial monitoring and control instruments, and for category 11.
21(a)	Cadmium when used in colour printed glass to provide filtering functions, used as a component in lighting applications installed in displays and control panels of EEE	Applies to categories 1 to 7 and 10 except applications covered by entry 21(b) or entry 39 and expires on 21 July 2021.
21(b)	Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Applies to categories 1 to 7 and 10 except applications covered by entry 21(a) or 39 and expires on 21 July 2021.
21(c)	Lead in printing inks for the application of enamels on	Applies to categories 1 to 7 and 10







Exemption		Scope and dates of applicability
	other than borosilicate glasses	and expires on 21 July 2021.
▼B		
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
<b>▼</b> M39 May	18, 2018,EU issued amendment directive (EU) 2018/737	
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Expires on:  — 21 July 2021 for categories 1-7 and 10,  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnostic medical devices and industrial m onitoring and control instruments,  — 21 July 2023 for category 8 in v itro diagnostic medical devices,  — 21 July 2024 for category 9 ind ustrial monitoring and control inst ruments, and for category 11.
▼B		
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	
26	Lead oxide in the glass envelope of black light blue lamps	Expires on 1 June 2011
27	Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers	Expired on 24 September 2010
▼M50 Feb	ruary 5, 2019,EU issued amendment directive (EU) 2019/174	
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	Expires on:  — 21 July 2021 for categories 1-7 and 10;  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnosti c medical devices and industrial





Exemption		Scope and dates of applicability
		monitoring and ontrol instrument s;  — 21 July 2023 for category 8 in vitro diagnostic medical devices;  — 21 July 2024 for category 9 ind ustrial monitoring and control inst ruments, and for category 11.
<b>▼</b> B		
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	
31	Lead in soldering materials in mercury free flat fluorescent lamps (which, e.g. are used for liquid crystal displays, design or industrial lighting)	
▼M51 Feb	ruary 5, 2019,EU issued amendment directive (EU) 2019/175	
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	Expires on:  — 21 July 2021 for categories 1-7 and 10,  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnostic medical devices and industrial m onitoring and control instruments,  — 21 July 2023 for category 8 in v itro diagnostic medical devices,  — 21 July 2024 for category 9 ind ustrial monitoring and control inst ruments, and for category 11.
<b>▼</b> B		
33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers	
<b>▼</b> M40 May	18, 2018,EU issued amendment directive (EU) 2018/738	
34	Lead in cermet-based trimmer potentiometer elements	Applies to all categories; expires on:  — 21 July 2021 for categories 1-7

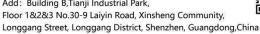








Exemption		Scope and dates of applicability
		and 10,  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnostic medical devices and industrial m onitoring and control instruments,  — 21 July 2023 for category 8 in v itro diagnostic medical devices,  — 21 July 2024 for category 9 ind ustrial monitoring and control inst ruments, and for category 11.
▼B		
36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display	Expired on 1 July 2010
▼M52 Feb	ruary 5, 2019,EU issued amendment directive (EU) 2019/176	
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	Expires on:  — 21 July 2021 for categories 1-7 and 10;  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnosti c medical devices and industrial monitoring and control instrument s;  — 21 July 2023 for category 8 in vitro diagnostic medical devices;  — 21 July 2024 for category 9 ind ustrial monitoring and control instruments, and for category 11.
▼B		
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	
May 21, 202	4, EU issued amendment directive (EU) 2024/1416	
39(a)	Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm2 of display screen area)	Expires for all categories on 21  November 2025

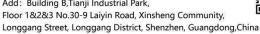








Exemption		Scope and dates of applicability
39(b)	Cadmium in downshifting semiconductor nanocrystal quantum dots directly deposited on LED semiconductor chips for use in display and projection applications (< 5 $\mu$ g Cd per mm2 of LED chip surface) with a maximum amount per device of 1 mg	Expires for all categories on 31  December 2027
▼M2 Dece	ember 18, 2012,EU issued amendment directive 2012/51/EU	
40	Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment	Expires on 31 December 2013
▼M62 Mar	rch 5, 2020,EU issued amendment directive (EU) 2020/365	
41	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 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 SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council	Applies to all categories and expir es on:  — 31 March 2022 for categories 1 to 7, 10 and 11;  — 21 July 2021 for categories 8 a nd 9 other than in vitro diagnosti c medical devices and industrial monitoring and control instrument s;  — 21 July 2023 for category 8 in vitro diagnostic medical devices;  — 21 July 2024 for category 9 ind ustrial monitoring and control instruments.
▼M54 Feb	oruary 5, 2019,EU issued amendment directive (EU) 2019/178	
42	Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment:  — with engine total displacement ≥ 15 litres; or  — with engine total displacement < 15 litres and the engine is designed to operate in applications where the 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 agriculture applications.	Applies to category 11, excluding applications covered by entry 6(c) of this Annex. Expires on 21 July 2024.







Exemption		Scope and dates of applicability	
▼M55 No	M55 November 5, 2019,EU issued directive (EU) 2019/1845		
43	Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not 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:  (a) 30 % by weight of the rubber for(i) gasket coatings;  (ii) solid-rubber gaskets; or  (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.  (b) 10 % by weight of the rubber for rubber-containing components not referred to in point (a).  For the purposes of this entry, "prolonged contact with human skin" means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.	Applies to category 11 and expires on 21 July 2024.	
▼M56 No	vember 5, 2019,EU issued directive (EU) 2019/1846		
44	Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council, installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users	Applies to category 11 and expires on 21 July 2024.	
Amendme	Amendment directive (EU) 2021 / 647 issued on 20 April 2021		
45	Lead diazide, lead styphnate, lead dipicramate, orange lead (lead tetroxide), lead dioxide in electric and electronic initiators of explosives for civil (professional) use and barium chromate in long time pyrotechnic delay charges of electric initiators of explosives for civil (professional) use	Applies to category 11 and expires on 20 April 2026.	
Amendme	nt directive (EU) 2024/232 issued on January 10, 2024		
46	Cadmium and lead in plastic profiles containing mixtures produced from polyvinyl chloride waste (hereinafter	Applies to category 11 and expires on 28 May 2028.	

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Exemption		Scope and dates of applicability
	referred to as "recovered rigid PVC" ), used for electrical	
	and electronic windows and doors, where the	
	concentration in the recovered rigid PVC material does	
	not exceed 0,1 % cadmium by weight and 1,5 % lead by	
	weight.	
	From 28 May 2026, rigid PVC recovered from electrical	
	and electronic windows and doors shall only be used for	
	the production of new articles under the categories	
	specified in entry 63, points 18(a) to (d) of Annex XVII to	
	Regulation (EC) No 1907/2006.	
	Suppliers of PVC articles containing recovered rigid PVC	
	with a concentration of lead equal to or greater than	
	0,1 % by weight of the PVC material shall ensure, before	
	placing those articles on the market, that they are visibly,	
	legibly and indelibly marked with the statement:	
	"Contains $\geq$ 0,1 % lead" . Where the marking cannot be	
	provided on the article due to the nature of the article, it	
	shall be on the packaging of the article.	
	Suppliers of PVC articles containing recovered rigid PVC	
	shall submit to national enforcement authorities upon	
	request documentary evidence to substantiate the claims	
	on the recovered origin of the PVC in those articles.	
	Certificates issued by schemes to provide proof of	
	traceability and recycled content, such as those	
	developed according to EN 15343:2007 or equivalent	
	recognised standards, may be used to substantiate such	
	claims for PVC articles produced in the Union. Claims	
	made on the recovered origin of the PVC in imported	
	articles shall be accompanied by a certificate that	
	provides equivalent proof of traceability and recycled	
	content, issued by an independent third party.	





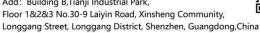
### **ANNEX IV**

# Applications exempted from the restriction in Article 4(1) specific to

### medical devices and monitoring and control instruments

	medical devices and monitoring and control	
No.	Exemption	Scope and dates of applicability
Equipment	tutilising or detecting ionising radiation:	
1	Lead, cadmium and mercury in detectors for ionising	
1	radiation.	
2	Lead bearings in X-ray tubes.	
3	Lead in electromagnetic radiation amplification devices:	
2	micro-channel plate and capillary plate.	
	Lead in glass frit of X-ray tubes and image intensifiers and	
4	lead in glass frit binder for assembly of gas lasers and for	
4	vacuum tubes that convert electromagnetic radiation into	
	electrons.	
5	Lead in shielding for ionising radiation.	
6	Lead in X-ray test objects.	
7	Lead stearate X-ray diffraction crystals.	
0	Radioactive cadmium isotope source for portable X-ray	
8	fluorescence spectrometers.	
Sensors, d	etectors and electrodes:	
1 -	Lead and cadmium in ion selective electrodes including	
1a	glass of pH electrodes.	
1b	Lead anodes in electrochemical oxygen sensors.	
1c	Lead, cadmium and mercury in infra-red light detectors.	
1 d	Mercury in reference electrodes: low chloride mercury	
1d	chloride, mercury sulphate and mercury oxide.	
Others:		
9	Cadmium in helium-cadmium lasers.	
10	Lead and cadmium in atomic absorption spectroscopy	
10	lamps.	
11	Lead in alloys as a superconductor and thermal conductor	
11	in MRI.	

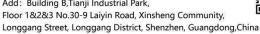
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No.	Exemption	Scope and dates of applicability
▼M11 Jan	uary 9, 2014,EU issued amendment directive 2014/9/EU	
12	Lead and cadmium in metallic bonds creating superconducting magnetic circuits in MRI, SQUID, NMR (Nuclear Magnetic Resonance) or FTMS (Fourier Transform Mass Spectrometer) detectors.	Expires on 30 June 2021.
▼B		
13	Lead in counterweights.	
14	Lead in single crystal piezoelectric materials for ultrasonic transducers.	
15	Lead in solders for bonding to ultrasonic transducers.	
16	Mercury in very high accuracy capacitance and loss measurement bridges and in high frequency RF switches and relays in monitoring and control instruments not exceeding 20 mg of mercury per switch or relay.	
17	Lead in solders in portable emergency defibrillators.	
18	Lead in solders of high performance infrared imaging modules to detect in the range 8-14 µm.	
19	Lead in Liquid crystal on silicon (LCoS) displays.	
20	Cadmium in X-ray measurement filters.	
▼M4 Janu	lary 9, 2014,EU issued amendment directive 2014/2/EU	
21	Cadmium in phosphor coatings in image intensifiers for X-ray images until 31 December 2019 and in spare parts for X-ray systems placed on the EU market before 1 January 2020.	
▼M5 Janu	ary 9, 2014,EU issued amendment directive 2014/3/EU	
22	Lead acetate marker for use in stereotactic head frames for use with CT and MRI and in positioning systems for gamma beam and particle therapy equipment.	Expires on 30 June 2021.
▼M3 Janu	ary 9, 2014,EU issued amendment directive 2014/1/EU	
23	Lead as an alloying element for bearings and wear surfaces in medical equipment exposed to ionising radiation.	Expires on 30 June 2021.









No.	Exemption	Scope and dates of applicability
▼M6 Janu	uary 9, 2014,EU issued amendment directive 2014/4/EU	
24	Lead enabling vacuum tight connections between aluminium and steel in X-ray image intensifiers.	Expires on 31 December 2019.
▼M8 Janu	uary 9, 2014,EU issued amendment directive 2014/6/EU	
25	Lead in the surface coatings of pin connector systems requiring nonmagnetic connectors which are used durably at a temperature below - 20 °C under normal operating and storage conditions.	Expires on 30 June 2021.
▼M31 Jur	ne 25, 2016,EU issued amendment directive (EU) 2016/1028	
26	Lead in the following applications that are used durably at a temperature below - 20 °C under normal operating and storage conditions:  (a) solders on printed circuit boards;  (b) termination coatings of electrical and electronic components and coatings of printed circuit boards;  (c) solders for connecting wires and cables;  (d) solders connecting transducers and sensors.  Lead in solders of electrical connections to temperature measurement sensors in devices which are designed to be used periodically at temperatures below - 150 °C.	Expires on 30 June 2021.
September	22, 2022, (EU) 2022/1632	
27	Lead in  — solders,  — termination coatings of electrical and electronic components and printed circuit boards,  — connections of electrical wires, shields and enclose donnectors, which are used in  (a) magnetic fields within the sphere of 1 m radius around the isocentre of the magnet in medical magnetic resonance imaging equipment, including patient monitors designed to be used within this sphere, or  (b) magnetic fields within 1 m distance from the external surfaces of cyclotron magnets, magnets for beam	Expires on 30 June 2027.



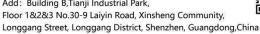


No.	Exemption	Scope and dates of applicability
	transport and beam direction control applied for particle	
	therapy.	
	(c) MRI non-integrated coils, for which the Declaration of	
	Conformity of this model is issued for the first time before	
	23 September 2022, or	
	(d) MRI devices including integrated coils, which are used	
	in magnetic fields within the sphere of 1 m radius around	
	the isocentre of the magnet in medical magnetic	
	resonance imaging equipment, for which the Declaration	
	of Conformity is issued for the first time before 30 June	
	2024.	
▼M10 Ja	anuary 9, 2014,EU issued amendment directive 2014/8/EU	
	Lead in solders for mounting cadmium telluride and	
28	cadmium zinc telluride digital array detectors to printed	Expires on 31 December 2017.
	circuit boards.	
▼M12 Ja	anuary 9, 2014,EU issued amendment directive 2014/10/EU	
	Lead in alloys, as a superconductor or thermal conductor,	
	used in cryo-cooler cold heads and/or in cryo-cooled cold	
29	probes and/or in cryo-cooled equipotential bonding	Expires on 30 June 2021.
	systems, in medical devices (category 8) and/or in	
	industrial monitoring and control instruments.	
<b>▼</b> M13 Ja	anuary 9, 2014,EU issued amendment directive 2014/11/EU	
	Hexavalent chromium in alkali dispensers used to create	
30	photocathodes in X-ray image intensifiers until 31	
30	December 2019 and in spare parts for X-ray systems	
	placed on the EU market before 1 January 2020.	
▼M30 A	April 16, 2016,EU issued amendment directive (EU) 2016/585	
	Lead, cadmium, hexavalent chromium, and	Expires on:
	polybrominated diphenyl ethers (PBDE) in spare parts	(a) 21 July 2021 for the use in medical
21 -	recovered from and used for the repair or refurbishment	devices other than in vitro diagnostic
31a	of medical devices, including in vitro diagnostic medical	medical devices;
	devices, or electron microscopes and their accessories,	(b) 21 July 2023 for the use in in
	provided that the reuse takes place in auditable	vitro diagnostic medical devices;





each reuse of parts is notified to the customer.  M14 January 9, 2014,EU issued amendment directive 2014/12/EU  Lead in solders on printed circuit boards of detectors and data acquisition units for Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment.  M15 January 9, 2014,EU issued amendment directive 2014/13/EU  Lead in solders on populated printed circuit boards used Expires on 30 June 2016 for class in the content of the customer.  Expires on 31 December 2019.	No.	Exemption	Scope and dates of applicability
■ Lead in solders on printed circuit boards of detectors and data acquisition units for Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment.  ■ M15 January 9, 2014,EU issued amendment directive 2014/13/EU  Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators.  ■ M18 January 9, 2014,EU issued amendment directive 2014/16/EU  Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi205:Pb) phosphors.  ■ M25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  Expires on 31 December 2019.  Expires on 30 June 2016 for class IIIb.  Expires on 30 June 2016 for class IIIb.  Expires on 22 July 2021.  Expires on 22 July 2021.  Expires on 22 July 2021.  Expires on 21 July 2024.		closed-loop business-to-business return systems and that	(c) 21 July 2024 for the use in electron
Lead in solders on printed circuit boards of detectors and data acquisition units for Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment.  MM15 January 9, 2014,EU issued amendment directive 2014/13/EU  Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators.  MM18 January 9, 2014,EU issued amendment directive 2014/16/EU  Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  MM25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  Expires on 31 December 2019.  Expires on 30 June 2016 for class IIIb.  Expires on 31 December 2020 for class IIIb.  Expires on 32 July 2021 file.		each reuse of parts is notified to the customer.	microscopes and their accessories.
data acquisition units for Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment.  MM15 January 9, 2014,EU issued amendment directive 2014/13/EU  Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators.  IIb.  MM18 January 9, 2014,EU issued amendment directive 2014/16/EU  Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi205:Pb) phosphors.  MM25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  Expires on 31 December 2019.  Expires on 30 June 2016 for class III.  Expires on 30 June 2016 for class III.  Expires on 31 December 2019.	▼M14 Jar	nuary 9, 2014,EU issued amendment directive 2014/12/EU	
which are integrated into Magnetic Resonance Imaging equipment.  M15 January 9, 2014,EU issued amendment directive 2014/13/EU  Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators.  M18 January 9, 2014,EU issued amendment directive 2014/16/EU  Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  M25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017		· ·	
equipment.  M15 January 9, 2014,EU issued amendment directive 2014/13/EU  Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators. IIb.  M18 January 9, 2014,EU issued amendment directive 2014/16/EU  Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  M25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  Expires on 22 July 2021.  Expires on 21 July 2024.	32		Expires on 31 December 2019.
■ Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators.  ■ M18 January 9, 2014,EU issued amendment directive 2014/16/EU  Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  ■ M25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017		which are integrated into Magnetic Resonance Imaging	·
Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators.  M18 January 9, 2014,EU issued amendment directive 2014/16/EU  Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  M25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  Expires on 30 June 2016 for class III and on 31 December 2020 for cla III and on 31 December 202		equipment.	
in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators.  M18 January 9, 2014,EU issued amendment directive 2014/16/EU  Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  M25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  in Directive 93/42/EEC class IIa and IIb mobile medical and on 31 December 2020 for clastical industrial and on 31 December 2020 for clastical industrial industrial industrial industrial industrial and on 31 December 2020 for clastical industrial industrial industrial industrial and on 31 December 2020 for clastical industrial industrial industrial industrial and on 31 December 2020 for clastical industrial industrial industrial industrial industrial and on 31 December 2020 for clastical industrial	▼M15 Jan	nuary 9, 2014,EU issued amendment directive 2014/13/EU	
devices other than portable emergency defibrillators.  ▼M18 January 9, 2014,EU issued amendment directive 2014/16/EU  Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  ▼M25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017		Lead in solders on populated printed circuit boards used	Expires on 30 June 2016 for class IIa
■ Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  ■ M25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017    May 20, 2014,EU issued amendment directive 2014/75/EU    Expires on 22 July 2021.   Expires on 21 July 2024.   Expires on 22 July 2017   Expires on 21 July 2024.   Expires on 21 July 2024.   Expires on 21 July 2024.   Expires on 22 July 2017   Expires on 21 July 2024.   Expires on 21 July 2024.   Expires on 21 July 2024.   Expires on 22 July 2017   Expires on 21 July 2024.   Expires on 22 July 2017   Expires on 21 July 2024.   Expires on 22 July 2017   Expires on 23 July 2017   Expires on 24 July 2017   Expires on 24 July 2017   Expires on 25 July 2017   Expires on 25 July 2017   Expire	33	in Directive 93/42/EEC class IIa and IIb mobile medical	and on 31 December 2020 for class
Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  Lexpires on 22 July 2021.  Expires on 21 July 2024.		devices other than portable emergency defibrillators.	IIb.
discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  May 20, 2014, EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  Expires on 22 July 2021.  Expires on 21 July 2024.	▼M18 Jar	nuary 9, 2014,EU issued amendment directive 2014/16/EU	
photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  Expires on 22 July 2021.  Expires on 22 July 2021.  Expires on 22 July 2021.		Lead as an activator in the fluorescent powder of	
photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.  M25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  Expires on 21 July 2024.		discharge lamps when used for extracorporeal	Expires on 22 July 2021.
▼M25 May 20, 2014,EU issued amendment directive 2014/75/EU  Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017  Expires on 21 July 2024.	34	photopheresis lamps containing BSP (BaSi2O5:Pb)	
Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017		phosphors.	
back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017	<b>▼M25 M</b> a	ay 20, 2014,EU issued amendment directive 2014/75/EU	
per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017		Mercury in cold cathode fluorescent lamps for	
per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017	3.5	back-lighting liquid crystal displays, not exceeding 5 mg	5 - 1 - 1 - 2024
1	35	per lamp, used in industrial monitoring and control	Expires on 21 July 2024.
▼M24 May 20, 2014,EU issued amendment directive 2014/74/EU		instruments placed on the market before 22 July 2017	
	<b>▼</b> M24 Ma	ay 20, 2014,EU issued amendment directive 2014/74/EU	
Expires on 31 December 2020. May			Expires on 31 December 2020. May be
used after that date in spare parts f		Lead used in other than C-press compliant pin connector	used after that date in spare parts for
36   industrial monitoring and contr	36		industrial monitoring and control
systems for industrial monitoring and control instruments. instruments placed on the mark		systems for industrial monitoring and control instruments.	instruments placed on the market
before 1 January 2021.			before 1 January 2021.
▼M57 March 5, 2020,EU issued amendment directive (EU) 2020/360	<b>▼M</b> 57 <b>M</b> a	arch 5, 2020,EU issued amendment directive (EU) 2020/360	
Lead in platinized platinum electrodes used for		Lead in platinized platinum electrodes used for	
conductivity measurements where at least one of the		conductivity measurements where at least one of the	
37 Expires on 31 December 2025. following conditions applies:	37		Expires on 31 December 2025.
(a) wide-range measurements with a conductivity range		1	



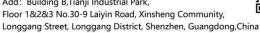


No.	Exemption	Scope and dates of applicability		
	covering more than 1 order of magnitude (e.g. range between 0,1 mS/m and 5 mS/m) in laboratory applications for unknown concentrations; (b) measurements of solutions where an accuracy of +/- 1 % of the sample range and where high corrosion resistance of the electrode are required for any of the following:(i) solutions with an acidity < pH 1; (ii) solutions with an alkalinity > pH 13; (iii) corrosive solutions containing halogen gas; (c) measurements of conductivities above 100 mS/m that must be performed with portable instruments.			
▼M21 May 20, 2014,EU issued amendment directive 2014/71/EU				
38	Lead in solder in one interface of large area stacked die elements with more than 500 interconnects per interface which are used in X-ray detectors of computed tomography and X-ray 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.		
▼M20 Ma	Lead in micro-channel plates (MCPs) used in equipment where at least one of the following properties is present:  (a) a compact size of the detector for electrons or ions, where the space for 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	The exemption expires on the following dates: (a) 21 July 2021 for medical devices and monitoring and control instruments; (b) 21 July 2023 for in-vitro diagnostic medical devices; (c) 21 July 2024 for industrial monitoring and control instruments.		





No.	Exemption	Scope and dates of applicability			
	(d) a sample detection area larger than 314 mm² for				
	detecting electrons or ions;				
	(e) a multiplication factor larger than $4.0 \times 10^7$ .				
▼M19 May	▼M19 May 20, 2014,EU issued amendment directive 2014/69/EU				
		Expires on 31 December 2020. May be			
	Lead in dielectric ceramic in capacitors for a rated voltage	used after that date in spare parts for			
40	of less than 125 V AC or 250 V DC for industrial monitoring	industrial monitoring and control			
	and control instruments.	instruments placed on the market			
		before 1 January 2021.			
▼M61 Mar	rch 5, 2020,EU issued amendment directive (EU) 2020/366				
	Lead as a thermal stabiliser in polyvinyl chloride (PVC)				
	used as base material in amperometric, potentiometric				
41	and conductometric electrochemical sensors which are	Expires on 31 March 2022.			
	used in in-vitro diagnostic medical devices for the analysis				
	of blood and other body fluids and body gases.				
▼M28 Apri	il 10, 2015,EU issued amendment directive (EU) 2015/574				
▼M63 June 2	2, 2021, (EU) 2021/884				
	Mercury in electric rotating connectors used in				
42	intravascular ultrasound imaging systems capable of high	Expires on 30 June 2026.			
	operating frequency (> 50 MHz) modes of operation.				
▼M32 June	e 25, 2016,EU issued amendment directive (EU) 2016/1029				
	Cadmium anodes in Hersch cells for oxygen sensors used				
43	in industrial monitoring and control instruments, where	Expires on 15 July 2023.			
	sensitivity below 10 ppm is required.				
▼M59 May 3, 2020, (EU) 2020/364					
	Cadmium in radiation tolerant video camera tubes	Applies to category 9. Expires on 31 March 2027.			
	designed for cameras with a centre resolution greater				
44	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.				
Amendment directive (EU) 2021 / 1980 issued on November 15, 2021					
45	Bis(2-ethylhexyl) phthalate (DEHP) in ion-selective	Expires on 21 July 2028			











No.	Exemption	Scope and dates of applicability		
	electrodes applied in point of care analysis of ionic			
	substances present in human body fluids and/or in			
	dialysate fluids			
Amendment directive (EU) 2021 / 1979 issued on November 15, 2021				
46	Bis(2-ethylhexyl) phthalate (DEHP) in plastic components	Expires on 1 January 2024		
	in MRI detector coils			
Amendment directive (EU) 2021 / 1978 issued on November 15, 2021				
47	Bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate	Expires on 21 July 2028		
	(BBP), dibutyl phthalate (DBP) and diisobutyl phthalate			
	(DIBP) in spare parts recovered from and used for the			
	repair or refurbishment of medical devices, including in			
	vitro diagnostic medical devices, and their accessories,			
	provided that the reuse takes place in auditable			
	closed-loop business-to-business return systems and that			
	each reuse of parts is notified to the customer			
September 22, 2022, (EU) 2022/1631				
48	Lead in bismuth strontium calcium copper oxide (BSCCO)			
	superconductor cables and wires and lead in electrical	Expires on 30 June 2027.		
	connections to these wires.			
July 12, 2023, (EU) 2023/1437				
49	Mercury in melt pressure transducers for capillary	Applies to category 9 and expires on		
	rheometers at temperatures over 300 °C and pressures	31 December 2025.		
	over 1000bar.			

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