



EEE

HCT-202511-07

The latest EU RoHS exemption list and Clause Validity

Updated on November 21, 2025

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 the 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 entered into force on the 20th day following its publication in the Official Journal of the European Union.

On November 21, 2025, the EU issued RoHS amendment directives, including (EU) 2025/2364, (EU) 2025/1802, and (EU) 2025/2363. This revision adjusted multiple clauses in RoHS Annex III, specifically involving exemptions for lead as an alloying element in steel, aluminum, and copper alloys under clauses 6(a), 6(a)-I, 6(b), 6(b)-I, 6(b)-II, and 6(c); exemptions for lead in high-temperature solder under clause 7(a); and exemptions for lead in glass or ceramic components under clauses 7(c)-I, 7(c)-II, 7(c)-V, and 7(c)-VI. The amendment directives shall enter into force on the twentieth day following their publication in the Official Journal of the European Union.

The following is the latest RoHS 2.0 exemption list and clause validity statistics, with the latest clauses marked in yellow and invalid ones marked in red.

ANNEX III

Exemption		Scope and dates of applicability	Validity status(Renewal request)
(EU)2022/276 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 30 W: 2.5 mg	Expires on 24 February 2023	No longer valid
1(b)	For general lighting purposes ≥ 30 W and < 50 W: 3.5 mg	Expires on 24 February 2023	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
1(c)	For general lighting purposes ≥ 50 W and < 150 W: 5 mg	Expires on 24 February 2023	No longer valid
1(d)	For general lighting purposes ≥ 150 W: 15 mg	Expires on 24 February 2023	No longer valid
1(e)	For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 5 mg	Expires on 24 February 2023	No longer valid
(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	Valid-no longer renewable
1(f)-II	For special purposes: 5 mg	Expires on 24 February 2025	No longer valid
(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	No longer valid
(EU)2022/284 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	No longer valid
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	No longer valid
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	No longer valid
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	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
2(a)(5)	Tri-band phosphor with long lifetime ($\geq 25\,000$ h): 5 mg	Expires on 24 February 2023	No longer valid
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	No longer valid
2(b)(2)	Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016	No longer valid
<u>(EU)2022/282 amended directive</u>			
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	No longer valid
<u>(EU)2022/287 amended directive</u>			
2(b)(4)-I	Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	Expires on 24 February 2025	Valid-requested for renewal 2023/8/1
2(b)(4)-II	Lamps emitting mainly light in the ultraviolet spectrum: 15 mg	Expires on 24 February 2027	Valid-requested for renewal 2025/8/22
2(b)(4)-III	Emergency lamps: 15 mg	Expires on 24 February 2027	Valid-requested for renewal 2025/8/22
<u>(EU)2022/274 amended directive</u>			
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	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
3(b)	Medium length (> 500 mm and ≤ 1 500 mm): 5 mg	Expires on 24 February 2025	No longer valid
3(c)	Long length (> 1 500 mm): 13 mg	Expires on 24 February 2025	No longer valid
(EU)2022/280 amended directive			
4(a)	Mercury in other low pressure discharge lamps (per lamp): 15 mg	Expires on 24 February 2023	No longer valid
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	Valid-requested for renewal 2025/8/22
(EU)2022/283 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 $R_a > 80$: $P \leq 105$ W: 16 mg may be used per burner	Expires on 24 February 2027	Valid-no longer renewable
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 $R_a > 60$: $P \leq 155$ W: 30 mg may be used per burner	Expires on 24 February 2023	No longer valid
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 $R_a > 60$: 155 W < $P \leq 405$ W: 40 mg may be used per burner	Expires on 24 February 2023	No longer valid
4(b)-III	Mercury in High Pressure Sodium (vapour) lamps for general lighting	Expires on 24 February 2023	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	purposes not exceeding (per burner) in lamps with improved colour rendering index $R_a > 60$: $P > 405$ W: 40 mg may be used per burner		
<u>(EU)2022/275 amended directive</u>			
4(c)	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):		
4(c)- I	$P \leq 155$ W: 20mg	Expires on 24 February 2027	Valid-requested for renewal 2025/8/22
4(c)- II	$155 \text{ W} < P \leq 405$ W: 25mg	Expires on 24 February 2027	Valid-requested for renewal 2025/8/22
4(c)-III	$P > 405$ W: 25mg	Expires on 24 February 2027	Valid-requested for renewal 2025/8/22
4(d)	Mercury in High Pressure Mercury (vapour) lamps (HPMV)	Expires on 13 April 2015	No longer valid
<u>(EU)2022/278 amended directive</u>			
4(e)	Mercury in metal halide lamps (MH)	Expires on 24 February 2027	Valid-requested for renewal 2025/8/22
<u>(EU)2022/279 amended directive</u>			
4(f)-I	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	Expires on 24 February 2025	Valid-requested for renewal 2023/8/1
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	Valid-requested for renewal 2025/8/22
4(f)-III	Mercury in high pressure sodium vapour lamps used for horticulture lighting	Expires on 24 February 2027	Valid-requested for renewal





Exemption		Scope and dates of applicability	Validity status(Renewal request)
			2025/8/22
4(f)-IV	Mercury in lamps emitting light in the ultraviolet spectrum	Expires on 24 February 2027	Valid-requested for renewal 2025/8/22
▼M26 May 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	No longer valid
▼B			
5(a)	Lead in glass of cathode ray tubes		No longer valid
5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight		Valid-requested for renewal 2015/1/16(categories:1 to 7 and 10) No longer valid(other categories)
November 21,2025,EU issued amendment directive (EU) 2025/2364			
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 11 December 2026	Valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0,35% lead by weight (*1)	Expires on 30 June 2027 for all categories.	Valid
6(a)-II	Lead as an alloying element in batch hot-dip galvanised steel components containing up to 0,2% lead by weight (*1)	Expires on 30 June 2027 for all categories.	Valid
6(b)	Lead as an alloying element in aluminium containing up to 0,4% lead by weight	Expires on 11 June 2027	Valid
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 (*1)	Expires on 11 december 2026 for categories 1-7, 10. Expires on 30 June 2027 for categories 9 industrial monitoring and control instruments, and 11.	Valid
6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4% by weight (*1)	Expires on 11 June 2027 for categories 1-7, 10. Expires on 30 June 2027 for categories 9 industrial monitoring and control instruments and 11 (*).	Valid
6(b)-III	Lead as an alloying element in aluminium casting alloys containing up to 0,3% lead by weight provided it stems from lead-bearing aluminium scrap recycling (*1)	Expires on 30 June 2027 for categories 1-8, 9 other than industrial monitoring and control instruments, and 10.	Valid
6(c)	Copper alloy containing up to 4% lead by weight (*1)	Expires on 30 June 2027 .	Valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
(*1) The exemption shall not cover EEE for supply to the general public where the EEE or accessible part thereof may, during normal or foreseeable conditions of use, be placed in the mouth by children. However, the exemption shall apply where the following can be both demonstrated: —— the rate of lead release from such an EEE or any accessible part, whether coated or uncoated, does not exceed 0,05 µg/cm² per hour (equivalent to 0,05 µg/g/h), —— 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 EEE. For the purpose of this footnote, it is considered that an EEE or accessible part of an EEE may be placed in the mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.			
November 21,2025,EU issued amendment directive (EU) 2025/1802			
7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)	Applies to all categories (except applications covered by point 24 of this Annex) and expires on 30 June 2027.	Valid
7(a)-I	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) for internal interconnections for attaching die, or other components along with a die in semiconductor assembly with steady state or transient/impulse currents of 0,1 A or greater or blocking voltages beyond 10 V, or die edge sizes larger than 0,3 mm × 0,3 mm	Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.	Valid
7(a)-II	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) for integral (meaning internal and	Applies to all categories (except applications covered by point 24 of this Annex) and expires on	Valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	external) connections of die attach in electrical and electronic components, if all the following conditions are met: —the thermal conductivity of the cured/sintered die-attach material is $> 35 \text{ W}/(\text{m} \times \text{K})$, —the electrical conductivity of the cured/sintered die-attach material is $> 4,7 \text{ MS}/\text{m}$, —solidus melting temperature is higher than 260°C	31 December 2027.	
7(a)-III	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) in first level solder joints (internal or integral connections - meaning internal and external) for manufacturing components so that subsequent mounting of electronic components onto subassemblies (i.e. modules, sub-circuit boards, substrates, or point-to-point soldering) with a secondary solder does not reflow the first level solder. This sub-entry excludes die attach applications and hermetic sealings	Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.	Valid
7(a)-IV	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) in second level solder joints for the	Applies to all categories (except applications covered by point 24 of this Annex) and expires on	Valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	attachment of components to printed circuit board or lead frames: (1) in solder balls for the attachment of ceramic ball-grid-array (BGA); (2) in high temperature plastic overmouldings (> 220 °C)	31 December 2027.	
7(a)-V	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) as a hermetic sealing material between: (1) a ceramic package or plug and a metal case; (2) component terminations and an internal sub-part	Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.	Valid
7(a)-VI	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) for establishing electrical connections between lamp components in incandescent reflector lamps for infrared heating, high intensity discharge lamps, or oven lamps	Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.	Valid
7(a)-VII	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) for audio transducers where the peak operating temperature exceeds 200 °C	Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.	Valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
▼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		No longer valid
November 21,2025,EU issued amendment directive (EU) 2025/ 2 363			
7(c)-I	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 all categories and expires on 30 June 2027.	Valid
7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	Applies to all categories (except applications covered by point 7(c)-I or 7(c)-IV) and expires on 31 December 2027.	Valid
▼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	No longer valid
▼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; — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and in	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
		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.	
November 21,2025,EU issued amendment directive (EU) 2025/ 2 363			
7(c)-V	Electrical and electronic components containing lead in a glass or glass matrix compound that fulfils any of the following functions: (1) for protection and electrical insulation in glass beads of high-voltage diodes and glass layers for wafers; (2) or hermetic sealing between ceramic, metal and/or glass parts; (3) for bonding purposes in a process parameter window for < 500 °C combined with a viscosity of 1013.3 dPas ('glass-transition temperature'); (4) for use as a resistive material such as ink, with a resistivity range from 1 ohm/square to 100 megohm/square, excluding trimmer potentiometers; (5) for use in chemically modified glass surfaces for microchannel plates (MCPs), channel electron multipliers (CEMs) and	Applies to all categories and expires on 31 December 2027.	Valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	resistive glass products (RGPs).		
7(c)-VI	Electrical and electronic components containing lead in a ceramic that fulfils any of the following functions: (1) for use in piezoelectric lead zirconium titanate (PZT) ceramics; (2) for providing ceramics with a positive temperature coefficient (PTC).	Applies to all categories (except applications covered by points 7(c)-II, 7(c)-III and 7(c)-IV of this Annex as well as point 14 of Annex IV) and expires on 31 December 2027 .	Valid
▼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	No longer valid
▼M47 February 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 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	Valid-requested for renewal 2020/1/16(categories:8 and 9) 2020/10/9(categories:11 other EEE)





Exemption		Scope and dates of applicability	Validity status(Renewal request)
		ry 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, — DC switches rated at 20 A and more at 18 V DC and more, and — switches for use at voltage supply frequency ≥ 200 Hz.	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.	Valid-requested for renewal 2020/1/16(categories:1 to 7 and 10)
▼M58 March 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 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.	No longer valid
9(a)-I	Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent	Applies to categories 1-7 and 10 and expires on 5	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	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	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 heater.	Applies to categories 1-7 and 10 and expires on 21 July 2021.	Valid-requested for renewal 2020/1/16(categories:1 to 7 and 10)
<u>January 26, 2023,EU issued amendment directive (EU) 2023/171</u>			
9(a)-III	Up to 0,7 % hexavalent chromium by weight, used as an anticorrosion agent in the working fluid of the carbon steel sealed circuit of gas absorption heat pumps for space and water heating	Applies to category 1 and expires on 31 December 2026	Valid-no longer renewable
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	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
		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.	No longer valid
▼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	No longer valid
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	No longer valid
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	No longer valid
▼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 industrial monitoring and control instruments and for category	Valid-requested for renewal 2019/11/28(all categories)





Exemption		Scope and dates of applicability	Validity status(Renewal request)
		y 11; — 21 July 2021 for all other categories and subcategories	
▼M33 June 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 industrial monitoring and control instruments and for category 11; — 21 July 2021 for other subcategories of categories 8 and 9	Valid-requested for renewal 2019/11/28(categories: 8 and 9;11 other EEE)
13(b)-(I)	Lead in ion coloured optical filter glass types	Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10	Valid-requested for renewal 2019/11/28(categories: 1 to 7 and 10)
13(b)-(II)	Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex		
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	No longer valid
▼M48 February 5, 2019,EU issued amendment directive (EU) 2019/172			
15	Lead in solders to complete a viable	Applies to categories 8,	Valid-requested for





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	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 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.	renewal 2020/1/16(categories:8 and 9) 2020/10/9(categories: 11 other EEE)
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 mm ² or larger in any semiconductor technology node; — stacked die packages with die of 300 mm ² or larger, or silicon interposers of 300 mm ² or larger.	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.	Valid-requested for renewal 2020/1/16(categories:1 to 7 and 10)
▼B			
16	Lead in linear incandescent lamps with silicate coated tubes	Expires on 1 September 2013	No longer valid
17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications		No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
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	No longer valid
▼M53 February 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 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.	Valid-requested for renewal 2020/1/20(categories: 1 to 7 and 10;8 and 9 other than in vitro and industrial) 2023/1/13(categorie: 11 other EEE) No longer valid(categories: 8 in vitro and 9 industrial)
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.	Valid-requested for renewal 2020/1/20(categories: 5 and 8)
▼B			
19	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam	Expires on 1 June 2011	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	in very compact energy saving lamps (ESL)		
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	No longer valid
▼M49 February 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 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.	No longer valid
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.	No longer valid
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.	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
21(c)	Lead in printing inks for the application of enamels on other than borosilicate glasses	Applies to categories 1 to 7 and 10 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	No longer valid
▼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 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.	Valid-requested for renewal 2020/1/20(all categories)
▼B			
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring		No longer valid
26	Lead oxide in the glass envelope of black light blue lamps	Expires on 1 June 2011	No longer valid
27	Lead alloys as solder for transducers	Expired on 24 September	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers	2010	
▼M50 February 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 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.	No longer valid(categories: 8 and 9) Valid-requested for renewal 2020/1/20(categories:1 to 7 and 10) 2019/12/20(categories:11 other EEE)
▼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		No longer valid
31	Lead in soldering materials in mercury free flat fluorescent lamps (which, e.g. are used for liquid crystal displays, design or industrial lighting)		No longer valid
▼M51 February 5, 2019,EU issued amendment directive (EU) 2019/175			





Exemption		Scope and dates of applicability	Validity status(Renewal request)
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 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.	No longer valid(categories: 8 in vitro and 11 other EEE) Valid-requested for renewal 2020/1/20(categories:1 to 7 and 10;8 and 9 other than in vitro and industrial;9 industrial)
▼B			
33	Lead in solders for the soldering of thin copper wires of 100 μm diameter and less in power transformers		No longer valid
▼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 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,	Valid-requested for renewal 2020/1/15(categories:1 to 7 and 10;8 and 9) 2020/10/9(categories:11 other EEE)





Exemption		Scope and dates of applicability	Validity status(Renewal request)
		— 21 July 2024 for category 9 industrial monitoring and control instruments, 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	No longer valid
▼M52 February 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 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.	No longer valid
▼B			
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide		No longer valid
May 21, 2024, EU issued amendment directive (EU) 2024/1416			
39(a)	Cadmium selenide in downshifting cadmium-based semiconductor	Expires for all categories on 21 November 2025	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm2 of display screen area)		
39(b)	Cadmium in downshifting semiconductor nanocrystal quantum dots directly deposited on LED semiconductor chips for use in display and projection applications (< 5 µg Cd per mm2 of LED chip surface) with a maximum amount per device of 1 mg	Expires for all categories on 31 December 2027	Valid
▼M2 December 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	No longer valid
▼M62 March 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 expires on: — 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; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments.	No longer valid
▼M54 February 5, 2019,EU issued amendment directive (EU) 2019/178			





Exemption		Scope and dates of applicability	Validity status(Renewal request)
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.	Valid-requested for renewal 2023/1/20(category:11 other EEE)
▼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.	Applies to category 11 and expires on 21 July 2024.	No longer valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	(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.		
▼ M56 November 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.	Valid-requested for renewal 2023/1/20(categorie:11 other EEE)
<u>Amendment directive (EU) 2021 / 647 issued on 20 April 2021</u>			
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.	Valid-requested for renewal 2024/10/17(categorie:11 other EEE)
<u>Amendment directive (EU) 2024/232 issued on January 10, 2024</u>			
46	Cadmium and lead in plastic profiles containing mixtures produced from polyvinyl chloride waste (hereinafter referred to as “recovered rigid PVC”), used for electrical and electronic	Applies to category 11 and expires on 28 May 2028.	Valid





Exemption		Scope and dates of applicability	Validity status(Renewal request)
	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 ≥ 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		





Exemption	Scope and dates of applicability	Validity status(Renewal request)
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

No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
Equipment utilising or detecting ionising radiation:			
1	Lead, cadmium and mercury in detectors for ionising radiation.		Valid-requested for renewal 2020/1/2(categories:8 and 9 other than in vitro and industrial) 2020/1/6(categories:9 industrial) No longer valid(categories:8 in vitro)
2	Lead bearings in X-ray tubes.		Valid-requested for renewal 2020/1/15(categories:8 and 9 other than in vitro and industrial) No longer valid(categories:8 in vitro and 9 industrial)
3	Lead in electromagnetic radiation		Valid-requested for renewal





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
	amplification devices: micro-channel plate and capillary plate.		2020/1/15(categories:8 and 9 other than in vitro and industrial;8 in vitro ; 9 industrial)
4	Lead in glass frit of X-ray tubes and image intensifiers and lead in glass frit binder for assembly of gas lasers and for vacuum tubes that convert electromagnetic radiation into electrons.		Valid-requested for renewal 2023/1/20(categorie:9 industrial) No longer valid(categories: 8 and 9 other than in vitro and industrial;8 in vitro)
5	Lead in shielding for ionising radiation.		Valid-requested for renewal 2020/1/6(categories:8 and 9 other than in vitro and industrial;9 industrial) No longer valid(categorie: 8 in vitro)
6	Lead in X-ray test objects.		No longer valid
7	Lead stearate X-ray diffraction crystals.		No longer valid
8	Radioactive cadmium isotope source for portable X-ray fluorescence spectrometers.		No longer valid
Sensors, detectors and electrodes:			
1a	Lead and cadmium in ion selective electrodes including glass of pH electrodes.		Valid-requested for renewal 2020/1/17(categories:8 and 9 other than in vitro and industrial;9 industrial) 2022/1/19(categorie:8 in vitro)
1b	Lead anodes in electrochemical oxygen sensors.		Valid-requested for renewal 2020/1/15(categories:8 and 9 other than in vitro and industrial;9 industrial) No longer valid(categorie: 8 in vitro)





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
1c	Lead, cadmium and mercury in infra-red light detectors.		Valid-requested for renewal 2019/11/22(categories:8 and 9 other than in vitro and industrial) 2020/1/15(categorie:8 in vitro) 2019/12/23(categorie:9 industrial)
1d	Mercury in reference electrodes: low chloride mercury chloride, mercury sulphate and mercury oxide.		No longer valid
Others:			
9	Cadmium in helium-cadmium lasers.		Valid-requested for renewal 2023/1/19(categorie:9 industrial) No longer valid(categories:8 and 9 other than in vitro and industrial; 8 in vitro)
10	Lead and cadmium in atomic absorption spectroscopy lamps.		Valid-requested for renewal 2023/1/18(categorie:9 industrial) No longer valid(categories:8 and 9 other than in vitro and industrial; 8 in vitro)
11	Lead in alloys as a superconductor and thermal conductor in MRI.		Valid-requested for renewal 2020/1/2(categories:8 and 9 other than in vitro and industrial) No longer valid(categories: 8 in vitro and 9 industrial)
▼M11 January 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	Expires on 30 June 2021.	Valid-requested for renewal 2019/7/31(categories:8 and 9 other than in vitro and





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
	Magnetic Resonance) or FTMS (Fourier Transform Mass Spectrometer) detectors.		industrial; 9 industrial) No longer valid(categories: 8 in vitro)
▼B			
13	Lead in counterweights.		Valid-requested for renewal 2020/1/15(categories:8 and 9 other than in vitro and industrial) No longer valid(categories: 8 in vitro and 9 industrial)
14	Lead in single crystal piezoelectric materials for ultrasonic transducers.		Valid-requested for renewal 2020/1/2(categories:8 and 9 other than in vitro and industrial) No longer valid(categories: 8 in vitro and 9 industrial)
15	Lead in solders for bonding to ultrasonic transducers.		Valid-requested for renewal 2020/1/15(categories:8 and 9 other than in vitro and industrial) No longer valid(categories: 8 in vitro and 9 industrial)
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.		No longer valid
17	Lead in solders in portable emergency defibrillators.		Valid-requested for renewal 2020/1/15(categories:8 and 9 other than in vitro and industrial) No longer valid(categories:





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
			8 in vitro and 9 industrial)
18	Lead in solders of high performance infrared imaging modules to detect in the range 8-14 μm .		Valid-requested for renewal 2020/1/15(categories:8 and 9 other than in vitro and industrial) No longer valid(categories: 8 in vitro and 9 industrial)
19	Lead in Liquid crystal on silicon (LCoS) displays.		No longer valid
20	Cadmium in X-ray measurement filters.		Valid-requested for renewal 2019/12/20(categories:8 and 9 other than in vitro and industrial) No longer valid(categories: 8 in vitro and 9 industrial)
▼M4 January 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.		No longer valid
▼M5 January 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.	No longer valid
▼M3 January 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 longer valid
▼M6 January 9, 2014,EU issued amendment directive 2014/4/EU			
24	Lead enabling vacuum tight connections	Expires on 31 December	No longer valid





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
	between aluminium and steel in X-ray image intensifiers.	2019.	
▼M8 January 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.	No longer valid
▼M31 June 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.	Valid-requested for renewal 2019/12/11(categories:8 and 9 other than in vitro and industrial;9 industrial) No longer valid(categorie: 8 in vitro)
September 22, 2022, (EU) 2022/1632			
27	Lead in — solders, — termination coatings of electrical and electronic components and printed circuit boards,	Expires on 30 June 2027.	Valid





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
	— connections of electrical wires, shields and enclosed connectors, 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 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 January 9, 2014,EU issued amendment directive 2014/8/EU			
28	Lead in solders for mounting cadmium telluride and cadmium zinc telluride digital array detectors to printed circuit boards.	Expires on 31 December 2017.	No longer valid
▼M12 January 9, 2014,EU issued amendment directive 2014/10/EU			





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
29	Lead in alloys, as a superconductor or thermal conductor, used in cryo-cooler cold heads and/or in cryo-cooled cold probes and/or in cryo-cooled equipotential bonding systems, in medical devices (category 8) and/or in industrial monitoring and control instruments.	Expires on 30 June 2021.	Valid-requested for renewal 2019/12/20(categories:8 and 9 other than in vitro and industrial) No longer valid(categories: 8 in vitro and 9 industrial)
▼M13 January 9, 2014,EU issued amendment directive 2014/11/EU			
30	Hexavalent chromium in alkali dispensers used to create photocathodes in X-ray image intensifiers until 31 December 2019 and in spare parts for X-ray systems placed on the EU market before 1 January 2020.		No longer valid
▼M30 April 16, 2016,EU issued amendment directive (EU) 2016/585			
31a	Lead, cadmium, hexavalent chromium, and polybrominated diphenyl ethers (PBDE) in spare parts recovered from and used for the repair or refurbishment of medical devices, including in vitro diagnostic medical devices, or electron microscopes 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.	Expires on: (a) 21 July 2021 for the use in medical devices other than in vitro diagnostic medical devices; (b) 21 July 2023 for the use in in vitro diagnostic medical devices; (c) 21 July 2024 for the use in electron microscopes and their accessories.	Valid-requested for renewal 2020/1/2(categories:8 and 9 other than in vitro and industrial;8 in vitro) No longer valid(categorie: 9 industrial)
▼M14 January 9, 2014,EU issued amendment directive 2014/12/EU			
32	Lead in solders on printed circuit boards of detectors and data acquisition units for	Expires on 31 December 2019.	No longer valid





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
	Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment.		
▼M15 January 9, 2014,EU issued amendment directive 2014/13/EU			
33	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.	Expires on 30 June 2016 for class IIa and on 31 December 2020 for class IIb.	No longer valid
▼M18 January 9, 2014,EU issued amendment directive 2014/16/EU			
34	Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.	Expires on 22 July 2021.	No longer valid
▼M25 May 20, 2014,EU issued amendment directive 2014/75/EU			
35	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.	No longer valid
▼M24 May 20, 2014,EU issued amendment directive 2014/74/EU			
36	Lead used in other than C-press compliant pin connector systems 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.	No longer valid
▼M57 March 5, 2020,EU issued amendment directive (EU) 2020/360			
37	Lead in platinized platinum electrodes used for conductivity measurements	Expires on 31 December 2025.	Valid-no longer renewable





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
	where at least one of the following conditions applies: (a) wide-range measurements with a conductivity range 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.	No longer valid
▼M20 May 20, 2014,EU issued amendment directive 2014/70/EU			
39	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	The exemption expires on the following dates: (a) 21 July 2021 for medical devices and monitoring	Valid-requested for renewal 2020/1/18(categories:8 and 9 other than in vitro and industrial;8 in vitro;9 industrial)





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
	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.	and control instruments; (b) 21 July 2023 for in-vitro diagnostic medical devices; (c) 21 July 2024 for industrial monitoring and control instruments.	
▼M19 May 20, 2014,EU issued amendment directive 2014/69/EU			
40	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.	No longer valid
▼M61 March 5, 2020,EU issued amendment directive (EU) 2020/366			
41	Lead as a thermal stabiliser in polyvinyl chloride (PVC) used as base material in	Expires on 31 March 2022.	No longer valid





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
	amperometric, potentiometric and conductometric electrochemical sensors which are used in in-vitro diagnostic medical devices for the analysis of blood and other body fluids and body gases.		
▼M83 May 16, 2023,EU issued amendment directive (EU) 2023/1526			
41a	Lead as a thermal stabilizer in polyvinyl chloride (PVC) used as base material in amperometric, potentiometric and conductometric electrochemical sensors which are used in in vitro diagnostic medical devices for the analysis of creatinine and blood urea nitrogen in whole blood.	Applies to category 8 and expires on 31 December 2023.	No longer valid
▼M28 April 10, 2015,EU issued amendment directive (EU) 2015/574			
▼M63 June 2, 2021, (EU) 2021/884			
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 2026.	Valid-requested for renewal 2024/11/1(categories:8 and 9 other than in vitro and industrial)
▼M32 June 25, 2016,EU issued amendment directive (EU) 2016/1029			
43	Cadmium anodes in Hersch cells for oxygen sensors used in industrial monitoring and control instruments, where sensitivity below 10 ppm is required.	Expires on 15 July 2023.	No longer valid
▼M59 May 3, 2020, (EU) 2020/364			
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	Applies to category 9. Expires on 31 March 2027.	Valid-no longer renewable





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
	100 Gy/hour and a total dose in excess of 100kGy.		
<u>Amendment directive (EU) 2021 / 1980 issued on November 15, 2021</u>			
45	Bis(2-ethylhexyl) phthalate (DEHP) in ion-selective electrodes applied in point of care analysis of ionic substances present in human body fluids and/or in dialysate fluids	Expires on 21 July 2028	Valid
<u>Amendment directive (EU) 2021 / 1979 issued on November 15, 2021</u>			
46	Bis(2-ethylhexyl) phthalate (DEHP) in plastic components in MRI detector coils	Expires on 1 January 2024	Valid-requested for renewal 2022/6/10(categorie:8 medical devices)
<u>Amendment directive (EU) 2021 / 1978 issued on November 15, 2021</u>			
47	Bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (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	Expires on 21 July 2028	Valid
<u>September 22, 2022, (EU) 2022/1631</u>			
48	Lead in bismuth strontium calcium copper oxide (BSCCO) superconductor cables and wires and lead in electrical connections to these wires.	Expires on 30 June 2027.	Valid
<u>July 12, 2023, (EU) 2023/1437</u>			





No.	Exemption	Scope and dates of applicability	Validity status(Renewal request)
49	Mercury in melt pressure transducers for capillary rheometers at temperatures over 300°C and pressures over 1000bar.	Applies to category 9 and expires on 31 December 2025.	Valid-requested for renewal 2024/4/8(category 9)

