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EU RoHS General Exemptions (Annex III)*

Exemption #	Description	Scope and Expiration Dates (if any)
1	Mercury in single capped (compact) fluorescent lamps not exceeding:	-
1a	For general lighting purposes < 30 W: 5 mg per burner.	Expired on February 24, 2023 Applied to categories 1 to 7 and 10.
1b	For general lighting purposes ≥ 30 W and < 50 W: 5 mg per burner.	Expired on February 24, 2023 Applied to categories 1 to 7 and 10.
1c	For general lighting purposes ≥ 50 W and < 150 W: 5 mg per burner.	Expired on February 24, 2023 Applied to categories 1 to 7 and 10.
1d	For general lighting purposes ≥ 150 W: 15 mg per burner	Expired on February 24, 2023 Applied to categories 1 to 7 and 10.
1e	For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm.	Expired on February 24, 2023 Applied to categories 1 to 7 and 10.
1f	For special purposes: 5 mg per burner	Applies to categories 1 to 7 and 10.
1f-I	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): 1f For special purposes: 5 mg	-
1f-II	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): 1f For special purposes: 5 mg	Expires on February 24, 2025
1g	For general lighting purposes less than 30 W with a lifetime equal or above 20,000 h: 3.5 mg.	Expired on August 24, 2023 Applied to categories 1 to 7 and 10.
2a	Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding:	-
2a-I	Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (T2):	Expired on February 24, 2023 Applied to categories 1 to 7 and 10.
2a-II	Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (T5): 5 mg per lamp.	Expired on February 24, 2023 Applied to categories 1 to 7 and 10.
2a-III	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (T8): 5 mg per lamp.	Expired on February 24, 2023 Applied to categories 1 to 7 and 10.
2a-IV	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (T12): 5 mg per lamp.	Expired on February 24, 2023 Applied to categories 1 to 7 and 10.
2a-V	Tri-band phosphor with long lifetime (≥ 25 000 h): 8 mg per lamp	Expired on February 24, 2023 Applied to categories 1 to 7 and 10.
2b	Mercury in other fluorescent lamps not exceeding:	-
2b-I	Linear halophosphate lamps with tube > 28 mm (T10 and T12): 10 mg per lamp.	Expired on April 13, 2012
2b-II	Non-linear halophosphate lamps (all diameters): 15 mg per lamp.	Expired on April 13, 2016
2b-III	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (T9).	Expires on February 24, 2025. Applies to categories 5 - Lighting equipment.
2b-IV-I	Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	Applies to categories 5 - Lighting equipment
2b-IV-II	Lamps emitting mainly light in the ultraviolet spectrum: 15 mg	Applies to categories 5 - Lighting equipment
2b-IV-III	Emergency lamps: 15 mg	Applies to categories 5 - Lighting equipment
3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding:	-

3a	Short length (≤ 500 mm).	Applies to category 5 - Lighting equipment Expires on February 24, 2025
3b	Medium length (> 500 mm and ≤ 1,500 mm).	Applies to category 5 - Lighting equipment Expires on February 24, 2025
3c	Long length (> 1 500 mm).	Applies to category 5 - Lighting equipment Expires on February 24, 2025
4a	Mercury in other low pressure discharge lamps.	Expired on 24, February 2023
4a-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	Applies to category 5 - Lighting equipment
4b	Mercury in high pressure sodium (vapor) lamps for general lighting purposes in lamps with improved color rendering index Ra > 60 not exceeding:	Applied to category 5 - Lighting equipment
4b-I	P ≤ 155 W.	Expired on 24, February 2023
4b-II	155 W < P ≤ 405 W.	Expired on 24, February 2023
4b-III	P > 405 W.	Expired on 24, February 2023
4c	Mercury in other high pressure sodium (vapor) lamps for general lighting purposes not exceeding:	Applies to category 5 - Lighting equipment
4c-I	P ≤ 155 W.	No limit until 2012. After December 31, 2011: 25 mg per burner
4c-II	155 W < P ≤ 405 W.	No limit until 2012. After December 31, 2011: 30 mg per burner
4c-III	P > 405 W.	No limit until 2012. After December 31, 2011: 40 mg per burner
4d	Mercury in high pressure mercury (vapor) lamps (HPMV).	Expired on April 13, 2015
4e	Mercury in metal halide lamps (MH).	Applies to category 5 - Lighting equipment
4f-I	Mercury in other discharge lamps for special purposes not specifically mentioned.	Applies to category 5 - Lighting equipment
4f-II	Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required	Applies to category 5 - Lighting equipment
4f-III	Mercury in high pressure sodium vapour lamps used for horticulture lighting	Applies to category 5 - Lighting equipment
4f-IV	Mercury in lamps emitting light in the ultraviolet spectrum	Applies to category 5 - Lighting equipment
4g	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.	Expired on 31 December 2018
5a	Lead in glass of cathode ray tubes.	Expired on 21 July 2024 for all product categories
5b	Lead in glass of fluorescent tubes not exceeding 0.2 % by weight.	Applies to categories 1 to 7 and 10
6a	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35 % lead by weight.	Applies to categories 8, 9 and 11
6a-I	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	Applies to categories 1 to 7 and 10

6b	Lead as an alloying element in aluminum containing up to 0.4 % lead by weight	Applies to categories 8 - medical devices -, 9 - monitoring and control instruments, and 11 - other EEE
6b-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.	Applies to categories 1 to 7 and 10
6b-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0.4 % by weight.	Applies to categories 1 to 7 and 10
6c	Copper alloy containing up to 4 % lead by weight.	Applies to all categories
7a	Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead).	Applies to all categories
7b	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications.	Expired on 21 July 2024 for all product categories
7c-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound.	Applies to all categories
7c-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
7c-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC.	Expired on January 1, 2013
7c-IV	Lead in PZT-based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors.	Expired on 21 July 2024 for all product categories
8a	Cadmium and its compounds in one shot pellet type thermal cut-offs.	Expired January 1, 2012
8b	Cadmium and its compounds in electrical contacts.	Applies to categories 8 , 9, and 11
8b-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
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	Expired on 21 July 2024 for all product categories
9a-I	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	Expired March 5, 2021

9a-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 to 7 and 10
9a-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 - Large household appliances
9b	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications.	Expired on 21 July 2024 for all product categories
9b-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.	Expired on July 21, 2019
11a	Lead used in C-press compliant pin connector systems.	Expired September 24, 2010
11b	Lead used in other than C-press compliant pin connector systems.	Expired January 1, 2013
12	Lead as a coating material for the thermal conduction module C-ring.	Expired September 24, 2010
13a	Lead in white glasses used for optical applications.	Applies to categories 1 to 11
13b	Cadmium and lead in filter glasses and glasses used for reflectance standards.	Applies to categories 8, 9 and 11
13b-I	Lead in ion coloured optical filter glass types.	Applies to categories 1 to 7 and 10
13b-II	Cadmium in striking optical filter glass types; excluding applications falling under point 39.	Applies to categories 1 to 7 and 10
13b-III	Cadmium and lead in glazes used for reflectance standards.	Applies to categories 1 to 7 and 10
14	Lead in solders consisting of more than two elements for the connection between pins and package of microprocessors with lead content of more than 80% and less than 85% by weight.	Expired January 1, 2011.
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.
15a	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.	As of March 1st 2020: applies to categories 1 to 7 and 10.
16	Lead in linear incandescent lamps with silicate coated tubes.	Expired on September 1, 2013
17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	Expired on 21 July 2024 for category 9 - industrial monitoring and control instruments - and category 11 - other EEE.
18a	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as specialty lamps for diazoprinting reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS.	Expired January 1, 2011

18b	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).	Applies to categories 1 to 8 - other than in vitro -, 9 - other than industrial -, and 11 - other EEE.
18b-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	As of March 1st 2020: applies to category 5. See entry 34 of Annex IV for category 8.
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).	Expired on June 1, 2011
20	Lead oxide in glass used for bonding front & rear substrates of flat fluorescent lamps used for liquid crystal displays (LCD).	Expired on June 1, 2011
21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses.	Expired on July 21, 2024 for all categories
21a	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.	Expired on 21 July 2021
21b	Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses.	Expired on 21 July 2021
21c	Lead in printing inks for the application of enamels on other than borosilicate glasses.	Expired on 21 July 2021
23	Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm and less.	Expired on September 24, 2010
24	Lead in solders for the soldering to machined through hole discoidal or planar array ceramic multilayer capacitors.	Applies to categories 1 to 10. Expired on 21 July 2024 for category 11 - other EEE.
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring.	Expired July 21, 2024 for all product categories
26	Lead oxide in the glass envelope of black light blue lamps.	Expired June 1, 2011
27	Lead alloys as solder for transducers used in high-powered loudspeakers designated to operate for several hours at acoustic power levels of 125 dB SPL and above.	Expired September 24, 2010
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3, 4) of Directive 69/493/EEC.	Applies to categories 1 to 7, 10, and 11 - other EEE
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.	Expired on July 21, 2024 for all categories
31	Lead in soldering materials in mercury free flat fluorescent lamps (used for liquid crystal displays, design or industrial lighting).	Expired on July 21, 2024 for all categories
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes.	Applies to categories 1 to 8 - other than in vitro -, 9, and 10
33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers.	Expired on July 21, 2024 for all categories
34	Lead in cermet-based trimmer potentiometer elements.	Applies to categories 1 to 11
36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display.	Expired on July 1, 2010
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body.	Expired on July 21, 2024 for all categories
38	Cadmium and cadmium oxide in thick film pastes used on aluminum bonded beryllium oxide.	Expired on July 21, 2024 for all categories
39	Cadmium in color converting II-VI LEDs (< 10 µg Cd per mm of light-emitting area) for use in solid state illumination or display systems.	Expired on November 20, 2018

39a	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).	Applies to categories 1 to 11.
40	Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment.	Expired on 31 December 2013
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.	Expired on 21 July 2024. Applied to categories 1 to 7, 10 and 11
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 (other EEE)
43	Bis(2-ethylhexyl) phthalate (DEHP) 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.	Applied to category 11 (other EEE) Expired on 21 July 2024.
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 (other EEE)
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 (other EEE)

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