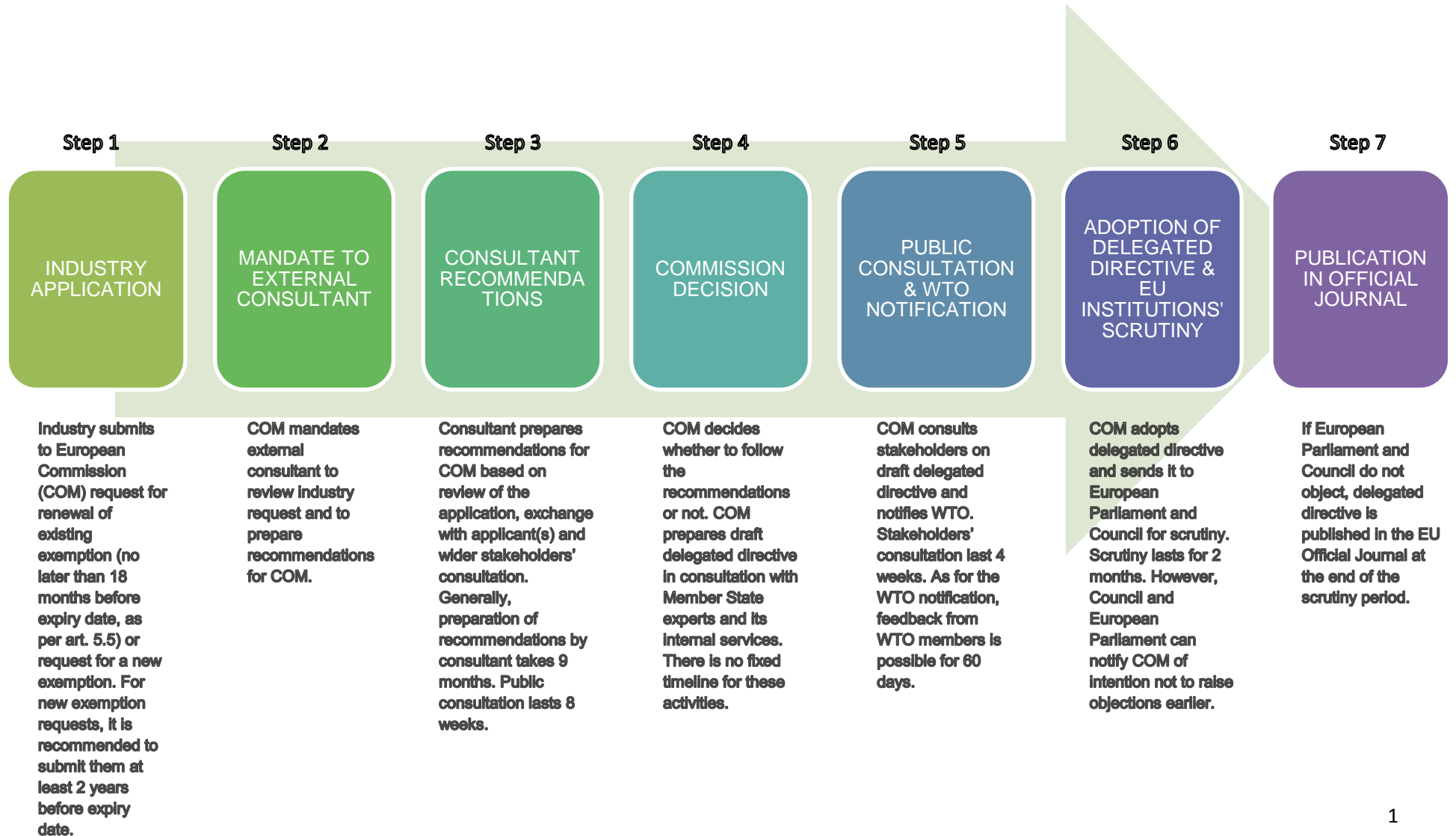


# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

Status: 16<sup>th</sup> March 2017

## Renewal of Existing Exemptions / Request for New Exemptions: Process



# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

## Annex III

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
1	Mercury in single-capped (compact) fluorescent lamps not exceeding (per burner):				
1(a)	For general lighting purposes < 30 W: 2,5 mg per burner after 31/12/2012	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
1(b)	For general lighting purposes ≥ 30 W and < 50 W; 3,5 mg per burner after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
1(c)	For general lighting purposes ≥ 50 W and < 150 W: 5 mg	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
1(d)	For general lighting purposes ≥ 150 W: 15 mg	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending

<sup>1</sup> Note that the expire date for cat. 11 is indicated in this document as per the Oeko Institut [guidance](#) on the European Commission webpage on RoHS. However, be aware that in January 2017, the Commission put forward a [proposal](#) for the revision of the scope of RoHS where it proposes an amendment to art. 5(2). If the amendment is retained, new art. 5(2) would clarify that for the exemptions listed in Annex III as at 21 July 2011, unless a shorter period is specified, the maximum validity period for category 11 is 5 years from 22 July 2019, i.e. 21<sup>st</sup> July 2024. The table in this document will be updated once the proposal is adopted.

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
		COM is still to take a decision			
1 (e)	For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 7mg per burner after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
1(f)	For special purposes: 5 mg	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
1(g)	For general lighting proposes < 30 W with a lifetime equal to or above 20 000 h: 3.5 mg	31/12/2017		Valid until 31/12/2017	n/a
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 < 9mm (e.g. T2): 4 mg per lamp after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤17mm (e.g. T5): 3 mg per lamp since 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
<b>2(a)(3)</b>	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8): 3,5 mg per lamp after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
<b>2(a)(4)</b>	Tri-brand phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 3,5 mg per lamp since 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
<b>2(a)(5)</b>	Tri-band phosphor with long lifetime (≥25 000 h): 5 mg per lamp after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
<b>2(b)</b>	Mercury in other fluorescent lamps not exceeding (per lamp):				
<b>2(b)(1)</b>	Linear halophosphate lamps with tube > 28 mm (e.g. T10 and T12): 10 mg		13/04/2012	Exemption expired	n/a
<b>2(b)(2)</b>	Non-linear halophosphate lamps (all diameters): 15 mg		13/04/2016	Exemption expired	n/a
<b>2(b)(3)</b>	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9): 15 mg after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending

## OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps)	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):				
3(a)	Short length ( $\leq 500$ mm): 3,5 mg per lamp after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
3(b)	Medium length ( $> 500$ mm and $\leq 1500$ mm): 5 mg per lamp after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
3(c)	Long length ( $>1500$ mm): 13 mg per lamp after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
4(a)	Mercury in order low pressure discharge lamps	21/07/2016 However, exemption is <b>still valid</b> as industry submitted	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
	(per lamp): 15 mg after 31/12/2011	request for renewal and COM is still to take a decision			
<b>4(b)</b>	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:				
<b>4(b)-I</b>	P ≤ 155 W: 30 mg since 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
<b>4(b)-II</b>	155 W < P ≤ 405 W: 40 mg since 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
<b>4(b)-III</b>	P > 450 W: 40 mg after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
<b>4(c)</b>	Mercury in High Pressure Mercury (vapour) lamps for general lighting purposes nor exceeding (per burner):				

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
4(c)-I	P ≤ 155 W: 25 mg after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
4(c)-II	155 W < P ≤ 405 W: 30 mg per burner after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
4(c)-III	P > 405 W: 40 mg per burner after 31/12/2011	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
4(d)	Mercury in High Pressure Mercury (vapour) Lamps (HPMV)	13/04/2015		Exemption expired	n/a
4(e)	Mercury in metal halide lamps (MH)	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
4(f)	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
4(g)	Mercury in hand crafted luminous discharge tubes 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 80mg, for all other indoor applications	31/12/2018		Valid until 31/12/2018	n/a
5(a)	Lead in glass of cathode ray tubes	21/07/2016	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	Exemption expired for cat 1 to 7, 10 and 11 <sup>2</sup>	n/a
5(b)	Lead in glass of fluorescent tubes not exceeding 0.2% by weight	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending

<sup>2</sup> Please note that for category 11 this may change once COM proposal on the revision of the scope of RoHS is adopted and if amendment to article 5(2) is retained.



# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
6(a)	Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0.35% lead by weight	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
6(b)	Lead as an alloying element in aluminium containing up to 0.4% lead by weight	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
6(c)	Copper alloy containing up to 4% lead by weight	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
7(b)	Lead in solders for servers, storage and storage array systems, network infrastructures equipment for switching, signalling, transmission, and network management for telecommunications	21/07/2016	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	Exemption expired for cat 1 to 7, 10 and 11 <sup>3</sup>	n/a

<sup>3</sup> Please note that for category 11 this may change once COM proposal on the revision of the scope of RoHS is adopted and if amendment to article 5(2) is retained.

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in glass or ceramic matrix compound	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
7(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	01/01/2013: after 1 January 2013 may be used in spare parts for EEE placed on the market before 01/01/2013		Exemption expired	n/a
7(c)-IV	Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete semiconductors	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision		COM to take decision on industry renewal request (step 4)	Pending
8(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs	01/01/2012: after 1 January 2012 may be used in spare parts for EEE placed on the market before 01/01/2012		Exemption expired	n/a
8(b)	Cadmium and its compounds in electrical contacts	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system	21/07/2016 However, exemption is <b>still valid</b> as industry submitted	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
	in absorption refrigerators up to 0.75% by weight in the cooling solution	request for renewal and COM is still to take a decision			
<b>9(b)</b>	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	March 2017: COM sent delegated directive to renew the exemption to EP and Council for scrutiny. Link to delegated directive and annex <a href="#">here</a> and <a href="#">here</a> . If there are no objections, the delegated directive will renew this exemption for category 1 with different wording. Old wording still applies for cat. 8-9-11 until the relevant deadlines (step 6)	Pending
<b>11(a)</b>	Lead used in C-press compliant pin connector systems	24/09/2010: after 24 September 2010 may be used in spare parts for EEE placed on the market before 24/09/2010		Exemption expired	n/a
<b>11(b)</b>	Lead used in other than c-press compliant pin corrector systems	01/01/2013: after 1 January 2013 may be used in spare parts for EEE placed on the market before 01/01/2013		Exemption expired	n/a
<b>12</b>	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 24/09/2010		Exemption expired	n/a
<b>13(a)</b>	Lead in white glasses used for optical applications	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	March 2017: COM sent delegated directive to renew the exemption to EP and	Pending

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
		COM is still to take a decision		Council for scrutiny. Link to delegated directive and annex <a href="#">here</a> and <a href="#">here</a> . If there are no objections, the delegated directive will renew this exemption with the same wording as now (step 6)	
13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	March 2017: COM sent delegated directive to renew the exemption to EP and Council for scrutiny. Link to delegated directive and annex <a href="#">here</a> and <a href="#">here</a> . If there are no objections, the delegated directive will renew this exemption with split wording for cat. 1 to 7 and 10. Old wording still applies for cat. 8-9-11 until the relevant deadlines (step 6)	Pending
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%	01/01/2011: after 1 January 2011 may be used in spare parts for EEE placed on the market before 01/01/2011		Exemption expired	n/a

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
	and less than 85% by weight				
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
16	Lead in liner incandescent lamps with silicate coated tubes	01/09/2013		Exemption expired	n/a
17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	21/07/2016	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	Exemption expired for cat 1 to 7, 10 and 11 <sup>4</sup>	n/a
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) <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :Pb)	01/01/2011		Exemption expired	n/a
18(b)	Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending

<sup>4</sup> Please note that for category 11 this may change once COM proposal on the revision of the scope of RoHS is adopted and if amendment to article 5(2) is retained.

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
	containing phosphors such as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb)	COM is still to take a decision			
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)	01/06/2011		Exemption expired	n/a
20	Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCDs)	01/06/2011		Exemption expired	n/a
21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
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		Exemption expired	n/a
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multiplayer capacitors	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
25	Lead oxide in surface conduction electron emitter	21/07/2016	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023	Exemption expired for cat 1 to 7, 10 and 11 <sup>5</sup>	n/a

<sup>5</sup> Please note that for category 11 this may change once COM proposal on the revision of the scope of RoHS is adopted and if amendment to article 5(2) is retained.

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
	displays (SED) used in structural elements, notably in the steal frit and first ring		Cat. 9 industrial: 21/07/2024		
26	Lead oxide in the glass envelope of black light blue lamps	01/06/2011		Exemption expired	n/a
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	24/09/2010		Exemption expired	n/a
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/496/EEC	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
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	21/07/2016	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	Exemption expired for cat 1 to 7, 10 and 11 <sup>6</sup>	n/a
31	Lead in soldering materials in mercury free flat fluorescent lamps (which,	21/07/2016	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	Exemption expired for cat 1 to 7, 10 and 11 <sup>7</sup>	n/a

<sup>6</sup> Please note that for category 11 this may change once COM proposal on the revision of the scope of RoHS is adopted and if amendment to article 5(2) is retained.

<sup>7</sup> Please note that for category 11 this may change once COM proposal on the revision of the scope of RoHS is adopted and if amendment to article 5(2) is retained.

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
	e.g. are used for liquid crystal displays, design or industrial lighting)				
32	Lead oxide in steal frit used for making window assemblies for Argon and Krypton laser tubes	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers	21/07/2016	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	Exemption expired for cat 1 to 7, 10 and 11 <sup>8</sup>	n/a
34	Lead in cermet-based trimmer potentiometer elements	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending
36	Mercury used as cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display	01/07/2010		Exemption expired	n/a
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	21/07/2016 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	COM to take decision on industry renewal request (step 4)	Pending

<sup>8</sup> Please note that for category 11 this may change once COM proposal on the revision of the scope of RoHS is adopted and if amendment to article 5(2) is retained.



# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	21/07/2016	Cat. 8-9 general: 21/07/2021 Cat. 8 in vitro: 21/07/2023 Cat. 9 industrial: 21/07/2024	Exemption expired for cat 1 to 7, 10 and 11 <sup>9</sup>	n/a
39	Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm <sup>2</sup> of light-emitting area) for use in solid state illumination or display systems	01/07/2014 However, exemption is <b>still valid</b> as industry submitted request for renewal and COM is still to take a decision		Feb-March 2017: COM consulted stakeholders on <a href="#">draft delegated directive</a> to renew exemption with amended wording (step 5)	Pending
40	Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment	31/12/2013		Exemption expired	
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	31/12/2018		Valid until 31/12/2018	n/a

<sup>9</sup> Please note that for category 11 this may change once COM proposal on the revision of the scope of RoHS is adopted and if amendment to article 5(2) is retained.

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE EEE cat 1 to 7, 10-11 <sup>1</sup>	EXPIRY DATE EEE cat 8-9	STATUS	FINAL COMMISSION DECISION
	Parliament and of the Council)				

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

## OVERVIEW REQUESTS FOR NEW EXEMPTIONS UNDER ANNEX III

DESCRIPTION	STATUS	FINAL COMMISSION DECISION
Lead in bearings and bushes of professional-use non-road equipment engines	Consultant <a href="#">study</a> on the request, including recommendations to COM, released in December 2016 (step 3)	Pending
Lead in thin film electronic sensor elements such as pyroelectric sensors or piezoelectric sensors	Consultant <a href="#">study</a> on the request, including recommendations to COM, released in December 2016 (step 3)	Pending
Cadmium (CdSe and CdSeO <sub>3</sub> ) in Chalnicon video camera tubes exposed to ionising radiation with a dose rate in excess of 100Gy/hour and a total dose in excess of 100KGy with a centre resolution greater than 450 TV Lines	<a href="#">Request</a> submitted in 2016 - Study by consultant ongoing (preparation of step 3)	Pending
Lead and cadmium in PVC profiles of electric windows and doors. Use of recycled PVC for profiles (windows and doors)	<a href="#">Request</a> submitted in 2016 - Study by consultant ongoing (preparation of step 3)	Pending

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

## ANNEX IV

N.	DESCRIPTION	EXPIRY DATE cat. 8-9	EXPIRY DATE cat. 8 in vitro	EXPIRY DATE cat. 9 industrial	LINK TO COMMISSION DELEGATED ACT (WHEN RELEVANT)
1.	Lead, cadmium and mercury in detectors for ionising radiation	21 July 2021	21 July 2023	21 July 2024	
1a.	Lead and cadmium in ion selective electrodes including glass of pH electrodes	21 July 2021	21 July 2023	21 July 2024	
1b.	Lead anodes in electrochemical oxygen sensors	21 July 2021	21 July 2023	21 July 2024	
1c.	Lead, cadmium and mercury in infrared light detectors	21 July 2021	21 July 2023	21 July 2024	
1d.	Mercury in reference electrodes: low chloride mercury chloride, mercury sulphate and mercury oxide	21 July 2021	21 July 2023	21 July 2024	
2.	Lead bearings in X-ray tubes	21 July 2021	21 July 2023	21 July 2024	
3.	Lead in electromagnetic radiation amplification devices: micro-channel plate and capillary plate	21 July 2021	21 July 2023	21 July 2024	
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	21 July 2021	21 July 2023	21 July 2024	
5.	Lead in shielding for ionising radiation	21 July 2021	21 July 2023	21 July 2024	
6.	Lead in X-ray test objects	21 July 2021	21 July 2023	21 July 2024	
7.	Lead stearate X-ray diffraction crystals	21 July 2021	21 July 2023	21 July 2024	
8.	Radioactive cadmium isotope source for portable X-ray fluorescence spectrometers	21 July 2021	21 July 2023	21 July 2024	
9.	Cadmium in helium-cadmium lasers	21 July 2021	21 July 2023	21 July 2024	
10.	Lead and cadmium in atomic adsorption spectroscopy lamps	21 July 2021	21 July 2023	21 July 2024	
11.	Lead in alloys as a superconductor and thermal conductor in MRI	21 July 2021	21 July 2023	21 July 2024	

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE cat. 8-9	EXPIRY DATE cat. 8 in vitro	EXPIRY DATE cat. 9 industrial	LINK TO COMMISSION DELEGATED ACT (WHEN RELEVANT)
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	30 June 2021			<a href="#">Commission delegated directive 2014/9/EU</a>
13.	Lead in counterweights	21 July 2021	21 July 2023	21 July 2024	
14.	Lead in single crystal piezoelectric materials for ultrasonic transducers	21 July 2021	21 July 2023	21 July 2024	
15.	Lead in solders for bonding to ultrasonic transducers	21 July 2021	21 July 2023	21 July 2024	
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	21 July 2021	21 July 2023	21 July 2024	
17.	Lead in solders in portable emergency defibrillators	21 July 2021	21 July 2023	21 July 2024	
18.	Lead in solders of high performance infrared imaging modules to detect in the range 8 – 14 µm	21 July 2021	21 July 2023	21 July 2024	
19.	Lead in Liquid Crystal on Silicon (LCoS) displays	21 July 2021	21 July 2023	21 July 2024	
20.	Cadmium in X-ray measurement filters	21 July 2021	21 July 2023	21 July 2024	
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	31 December 2019			<a href="#">Commission delegated directive 2014/2/EU</a>
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	30 June 2021			<a href="#">Commission delegated directive 2014/3/EU</a>
23.	Lead as an alloying element for bearings and wear surfaces in medical equipment exposed to ionising radiation	30 June 2021			<a href="#">Commission delegated directive 2014/1/EU</a>
24.	Lead enabling vacuum tight connections between aluminium and steel in X-ray image intensifiers	31 December 2019			<a href="#">Commission delegated directive 2014/4/EU</a>

## OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE cat. 8-9	EXPIRY DATE cat. 8 in vitro	EXPIRY DATE cat. 9 industrial	LINK TO COMMISSION DELEGATED ACT (WHEN RELEVANT)
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.		30 June 2021		<a href="#">Commission delegated directive 2014/6/EU</a>
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.		30 June 2021		<a href="#">Commission delegated directive (EU) 2016/1028</a>
27.	Lead in — solders, — termination coatings of electrical and electronic components and printed circuit boards, — 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.		30 June 2020		<a href="#">Commission delegated directive 2014/7/EU</a>

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE cat. 8-9	EXPIRY DATE cat. 8 in vitro	EXPIRY DATE cat. 9 industrial	LINK TO COMMISSION DELEGATED ACT (WHEN RELEVANT)
28.	Lead in solders for mounting cadmium telluride and cadmium zinc telluride digital array detectors to printed circuit boards.	31 December 2017			<a href="#">Commission delegated directive 2014/8/EU</a>
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.	30 June 2021			<a href="#">Commission delegated directive 2014/10/EU</a>
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.	1 January 2020			<a href="#">Commission delegated directive 2014/11/EU</a>
31.	Lead, cadmium and hexavalent chromium in reused spare parts, recovered from medical devices placed on the market before 22 July 2014 and used in category 8 equipment placed on the market before 22 July 2021, provided that reuse takes place in auditable closed-loop business-to-business return systems, and that the reuse of parts is notified to the consumer. Expires on 21 July 2021.	6 November 2017			Note – this exemption is replaced by exemption 31a as of 7 <sup>th</sup> November 2017
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:	Starting from 7 November 2017 until 21 July 2021	Starting from 7 November 2017 until 21 July 2023	Starting from 7 November 2017 until 21 July 2024 (for electron microscopes and their accessories only)	<a href="#">Commission Delegated Directive (EU) 2016/585</a>

## OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE cat. 8-9	EXPIRY DATE cat. 8 in vitro	EXPIRY DATE cat. 9 industrial	LINK TO COMMISSION DELEGATED ACT (WHEN RELEVANT)
	(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.'				
32.	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.	31 December 2019			<a href="#">Commission delegated directive 2014/12/EU</a>
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	30 June 2016 for class IIa, 31 December 2020 for class IIb			<a href="#">Commission delegated directive 2014/13/EU</a>
34.	Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.	22 July 2021			<a href="#">Commission delegated directive 2014/16/EU</a>
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	21 July 2024			<a href="#">Commission delegated directive 2014/75/EU</a>
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	31 December 2020			<a href="#">Commission delegated directive 2014/74/EU</a>
37.	Lead in platinized platinum electrodes used for conductivity measurements where at least one of the following conditions applies:	31 December 2018			<a href="#">Commission delegated directive 2014/73/EU</a>



# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE cat. 8-9	EXPIRY DATE cat. 8 in vitro	EXPIRY DATE cat. 9 industrial	LINK TO COMMISSION DELEGATED ACT (WHEN RELEVANT)
	<p>(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;</p> <p>(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:</p> <p>(i) solutions with an acidity &lt; pH 1;</p> <p>(ii) solutions with an alkalinity &gt; pH 13;</p> <p>(iii) corrosive solutions containing halogen gas;</p> <p>(c) measurements of conductivities above 100 mS/m that must be performed with portable instruments.</p>				
38.	<p>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.</p>		31 December 2019		<p><a href="#">Commission delegated directive 2014/71/EU</a></p>
39.	<p>Lead in micro-channel plates (MCPs) used in equipment where at least one of the following properties is present:</p> <p>(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;</p>	21 July 2021	21 July 2023	21 July 2024	<p><a href="#">Commission delegated directive 2014/70/EU</a></p>

# OVERVIEW OF THE STATE OF PLAY OF ROHS EXEMPTIONS

N.	DESCRIPTION	EXPIRY DATE cat. 8-9	EXPIRY DATE cat. 8 in vitro	EXPIRY DATE cat. 9 industrial	LINK TO COMMISSION DELEGATED ACT (WHEN RELEVANT)
	<p>(b) a two-dimensional spatial resolution for detecting electrons or ions, where at least one of the following applies:</p> <p>(i) a response time shorter than 25 ns;</p> <p>(ii) a sample detection area larger than 149 mm<sup>2</sup>;</p> <p>(iii) a multiplication factor larger than 1,3 × 10<sup>3</sup>.</p> <p>(c) a response time shorter than 5 ns for detecting electrons or ions;</p> <p>(d) a sample detection area larger than 314 mm<sup>2</sup> for detecting electrons or ions;</p> <p>(e) a multiplication factor larger than 4,0 × 10<sup>7</sup>.</p>				
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.		31 December 2020		<a href="#">Commission delegated directive 2014/69/EU</a>
41.	Lead as a thermal stabiliser 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 blood and other body fluids and body gases.		31 December 2018		<a href="#">Commission delegated directive (EU) 2015/573</a>
42.	Mercury in electric rotating connectors used in intravascular ultrasound imaging systems capable of high operating frequency (> 50MHz) modes of operation.		30 June 2019		<a href="#">Commission delegated directive (EU) 2015/574</a>
43	Cadmium anodes in Hersch cells for oxygen sensors used in industrial monitoring and control instruments, where sensitivity below 10 ppm is required		15 July 2023		<a href="#">Commission Delegated Directive (EU) 2016/1029</a>