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Applicant : Address :

Sample Name : Foldable Bluetooth headphone Style/Item No. : P326.701/P326.703/P326.705

Sample Received Date : October 17, 2016

Testing Completed Date : October 26, 2016

Test Requested: As requested by client, to evaluate the compliance of the submitted sample

with the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in

electrical and electronic equipment.

Test Method : 1. Review was performed for the sample and the related Bill of Material submitted by the Applicant

submitted by the Applicant.

2. a) To refer to the standard IEC 62321-3-1:2013: Screening by XRF

Spectroscopy.

b) Wet chemical test

1) to refer to IEC 62321-5: 2013, determine the Cadmium, Lead

content by ICP-OES.

2) to refer to IEC 62321-4: 2013, determine the Mercury content by

ICP-OES.

3) to refer to IEC 62321:2008 Ed.1 & IEC 62321-7-1:2015, determine

the Hexavalent Chromium content by UV-VIS.

4) to refer to IEC 62321-6:2015, determine the Polybrominated

Biphenyls and Polybrominated Diphenyl Ethers by GC-MS.

Test Results: Please refer to next page (s).





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Conclusion:

Basing on the test results obtained from the homogenous materials, the submitted sample COMPLIES with the requirements stated in the Annex II of RoHS Directive 2011/65/EU.

> Signed for and on behalf of EMTEK (Dongguan) Co., Ltd.

Prepared by:

Kira Fu

Report Engineer

Reviewed by:

Supervisor

Carrie Zhang

Approved by Lainey Qin

Lab Director





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Test Results:

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
1	Black fabric	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
2	Silver metal with blue coating	Hg	BL	NA	Non comment
	Coming	Cr	BL		
		Br	NA		
		Pb	BL		
to the time to	Black hard plastic	Cd	BL		Non comment
3		Hg	BL	NA .	
		Cr	BL		
		Br	BL		
		Pb	BL	NA	Non comment
		Cd	BL		
4	White foam	Hg	BL		
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
5	Transparent soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL	NA NA	
6	Black fabric	Hg	BL		Non comment
		Cr	BL		
A STATE OF THE STA		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
7	White foam	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
8	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
	Black hard plastic	Cd	BL		Non comment
9		Hg	BL	NA NA	
		Cr	BL		
		Br	BL		
		Pb	BL	NA	Non comment
		Cd	BL		
10	Black hard plastic	Hg	BL		
		Cr	BL		
		Br	BL	NA NA	
		Pb	BL		
		Cd	BL		
11	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
12	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
and the		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
13	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL	Testing ⁽²⁾ (mg/kg)	
A CANAL		Pb	BL		
		Cd	BL		
14	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		Non comment
15	Green PCB	Hg	BL		
		Cr	BL		
		Br	X		
		Pb	BL		The XRF screening
		Cd	BL		results for Pb, Cd,
16	Solder-silver metal	Hg	BL	NA	Hg and Cr were obtained for the
		Cr	BL		resubmitted sample
		Br	NA		on October 21, 2016
		Pb	BL		
		Cd	BL		
17	Transparent plastic film	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
18	Copper metal	Hg	BL	NA	Non comment
		Cr	BL		
of Althou		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
19	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
20	Silver solid	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
	Silver metal	Cd	BL		Non comment
21		Hg	BL	NA	
		Cr	BL		
		Br	NA		
		Pb	BL	PBBs:ND PRDEs:ND	Non comment
		Cd	BL		
22	Green PCB	Hg	BL		
		Cr	BL		
		Br	Χ	NA NA	
		Pb	BL		
		Cd	BL		
23	SMD IC	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL	NA NA	
24	Solder-silver metal	Hg	BL		Non comment
		Cr	BL		
		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
25	SMD resister	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
26	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
	White hard plastic	Cd	BL	NA	Non comment
27		Hg	BL		
		Cr	BL		
		Br	BL		
		Pb	BL	NA	Non comment
		Cd	BL		
28	Silver metal	Hg	BL		
		Cr	BL		
		Br	NA	NA	
		Pb	BL		
		Cd	BL		
29	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
30	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
31	SMD LED	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
32	Black paper with sticky	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		Non comment
33	Silver metal with gold coating	Hg	BL	NA	
		Cr	BL		
		Br	NA		
		Pb	BL	NA	Non comment
		Cd	BL		
34	Silver metal	Hg	BL		
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
35	Silver plastic film	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
36	Pink transparent soft plastic	Hg	BL	NA N	Non comment
		Cr	BL		
		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
37	Green PCB	Hg	BL	PBBs:ND PBDEs:ND	Non comment
		Cr	BL	. 20202	
		Br	Χ		
		Pb	BL		
		Cd	BL		
38	Solder-silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
	Silver metal	Cd	BL	NA	Non comment
39		Hg	BL		
		Cr	BL		
		Br	NA		
		Pb	BL	NA	Non comment
		Cd	BL		
40	Black hard plastic	Hg	BL		
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
41	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL	NA	
42	Black hard plastic	Hg	BL		Non comment
		Cr	BL		
		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
43	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
44	SMD triode	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
	SMD capacitor	Cd	BL		Non comment
45		Hg	BL	NA NA	
		Cr	BL		
		Br	BL		
		Pb	BL	NA	Non comment
		Cd	BL		
46	SMD crystal oscillator	Hg	BL		
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
47	Copper metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
48	Copper metal with red coating	Hg	BL	NA	Non comment
	Couring	Cr	BL		
		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
49	Copper metal with blue coating	Hg	BL	NA	Non comment
	oouting	Cr	BL		
		Br	BL		
+		Pb	BL		
		Cd	BL		
50	White fabric	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
	Black soft plastic	Cd	BL	NA	Non comment
51		Hg	BL		
		Cr	BL		
		Br	BL		
		Pb	BL	NA NA	Non comment
		Cd	BL		
52	Black soft plastic	Hg	BL		
		Cr	BL		
		Br	BL	NA NA NA	
		Pb	BL		
		Cd	BL		
53	Solder-silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
54	Black hard plastic	Hg	BL	NA	Non comment
		Cr	BL		
STATE OF STA		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
55	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
56	Black soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
	White hard plastic	Cd	BL		Non comment
57		Hg	BL	NA	
		Cr	BL		
		Br	BL		
		Pb	BL	NA	
		Cd	BL		Non comment
58	Silver metal	Hg	BL		
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
59	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
60	Black soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
61	Red soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
62	Black soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
STATE OF STATE		Pb	BL		
	Copper metal	Cd	BL		Non comment
63		Hg	BL	NA NA	
		Cr	BL		
		Br	NA		
		Pb	BL	NA	Non comment
		Cd	BL		
64	Black hard plastic	Hg	BL		
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
65	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	-BL		
66	Silver metal	Hg	BL	NA	Non comment
		Cr	BL		
ALTER OF		Br	NA		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
		Pb	BL		
		Cd	BL		
67	Black soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
68	Black soft plastic	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL	NA	Non comment
69	Copper metal	Hg	BL		
		Cr	BL		
		Br	NA		
		Pb	BL	NA	Non comment
		Cd	BL		
70	Copper metal with red coating	Hg	BL		
	County	Cr	BL		
		Br	NA		
		Pb	BL		
		Cd	BL		
71	Copper with green coating	Hg	BL	NA	Non comment
		Cr	BL		
		Br	BL		
		Pb	BL		
		Cd	BL		
72	White fiber	Hg	BL	NA I	Non comment
		Cr	BL		
		Br	BL		





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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark	
73		Pb	BL			
	Silver metal	Cd	BL		Non comment	
		Hg	BL	NA		
		Cr	BL			
		Br	NA			





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- Remark: (1) ① Results are obtained by XRF for primary screening, and further wet chemical testing by ICP-OES / AAS (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).
 - ② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA= Not Applicable.
 - ③ The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.

Element	Polymer	Metal	Composite Materials	
Cd	$BL \leq (70\text{-}3\sigma) < X < (130\text{+}3\sigma) \\ \leq OL$	BL ≤(70-3 <i>σ</i>)< X <(130+3 <i>σ</i>) ≤ OL	LOD < X <(150+3 <i>σ</i>)≤ OL	
Pb	BL \leq (700-3 σ)< X < (1300+3 σ) \leq OL	BL \leq (700-3 σ)< X <(1300+3 σ) \leq OL	BL ≤(500-3 σ)< X <(1500+3 σ)≤ OL	
Hg	BL ≤(700-3 σ)< X <(1300+3 σ)≤ OL	BL \leq (700-3 σ) < X < (1300+3 σ) \leq OL	BL ≤(500-3 σ)< X <(1500+3 σ)≤ OL	
Br	BL ≤ (300-3 <i>σ</i>)< X	NA	BL ≤ (250-3 <i>σ</i>)< X	
+ Cr	BL ≤ (700-3 <i>σ</i>)< X	BL ≤ (700-3 <i>σ</i>)< X	BL ≤ (500-3 <i>σ</i>)< X	

- (2) ① mg/kg = ppm = 0.0001%, ND = Not Detected (Less than reporting limit value.).
 - 2 Unit, Reporting Limit (RL) and Requirement limit in wet chemical test.

Test items	Pb	Cd	Hg	Cr ⁶⁺ (Non-metal)	Cr ⁶⁺ (metal)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	2	2	2	2	2	5	5
Requirement Limit	1000	100	1000	1000	Negative	1000	1000

3 According to IEC 62321:2008 & IEC 62321-7-1:2015, result on Cr⁶⁺ for metal sample is shown as Positive/Negative.

Negative = Absence of Cr⁶⁺ coating, Positive = Presence of Cr⁶⁺ coating. Storage condition and production date of the tested sample are unavailable and thus results of

Cr⁶⁺ represent status of the sample at the time of testing.

4 According to IEC 62321-3-1:2013, this column represents the results of wet chem test. And "NA" means no need to perform wet chem test, when the XRF sereening results are qualified.





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Photo Appendix

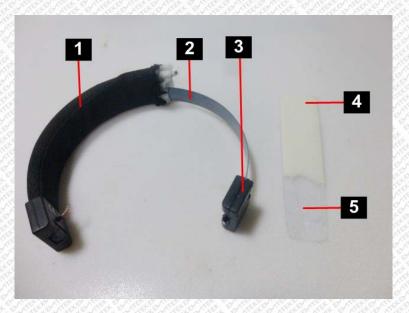






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Photo Appendix





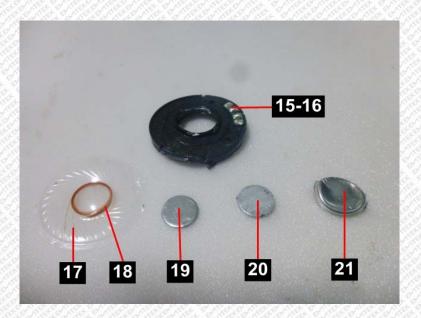




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Photo Appendix



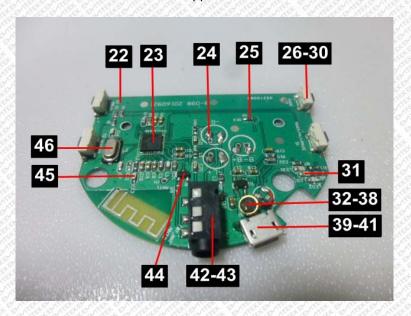


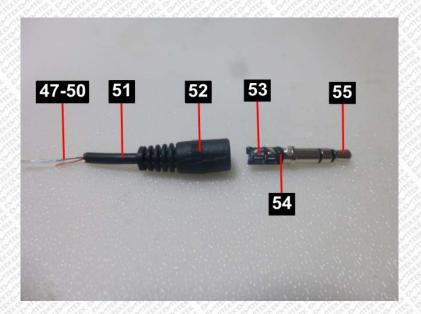




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Photo Appendix



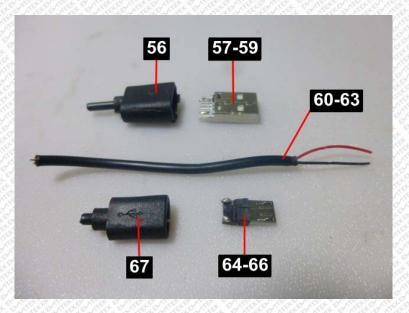


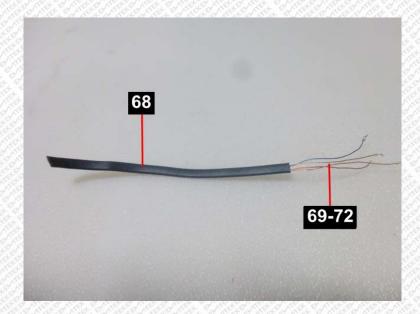




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Photo Appendix



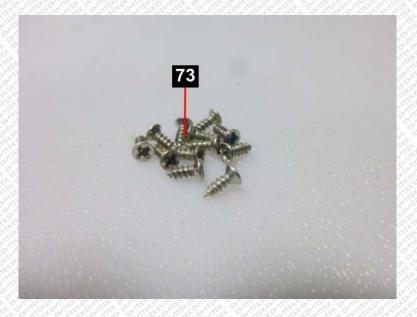






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Photo Appendix



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ANNEX

EXEMPTION LIST

- 1 Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
- 1(a) For general lighting purposes < 30W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011 until 31 December 2012; 2.5mg shall be used per burner after 31 December 2012)
- 1(b) For general lighting purposes ≥ 30W and <50W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011)
- 1(c) For general lighting purposes ≥ 50W and <150W: 5mg
- 1(d) For general lighting purposes ≥ 150W: 15mg
- 1(e) For general lighting purposes with circular or square structural shape and tube diameter ≤17mm (no limitation of use until 31 December 2011; 7mg may be used per burner after 31 December 2011)
- 1(f) For special purposes: 5mg
- 1(g) For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg (Expires on 31 December 2017)
- 2(a) Mercury in double-capped linear fluorescent lamps for general lighting purples not exceeding (per lamp):
- 2(a)(1) Tri-band phosphor with normal lifetime and a tube diameter < 9mm (e.g. T2): 5mg (expires on 31 December 2011; 4mg may be used per lamp after 31 December 2011)
- 2(a)(2) Tri-band phosphor with normal lifetime and a tube diameter ≥ 9mm and ≤ 17mm (e.g. T5): 5mg (expires on 31 December 2011; 3mg may be used per lamp after 31 December 2011)
- 2(a)(3) Tri-band phosphor with normal lifetime and a tube diameter > 17mm and ≤ 28mm (e.g. T8): 5mg (expires on 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
- 2(a)(4) Tri-band phosphor with normal lifetime and a tube diameter > 28mm (e.g. T12): 5mg (expires on 31 December 2012; 3.5mg may be used per lamp after 31 December 2012)
- 2(a)(5) Tri-band phosphor with long lifetime (≥ 25000h): 8mg (expires on 31 December 2011; 5mg may be used per lamp after 31 December 2011)
- 2(b) Mercury in other fluorescent lamps not exceeding (per lamp):
- 2(b)(2) Non-linear halophosphate lamps (all diameters): 15mg (expires on 13 April 2016)
- 2(b)(3) Non-linear tri-band phosphor lamps with tube diameter > 17mm (e.g. T9) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
- 2(b)(4) Lamps for other general lighting and special purposes (e.g. induction lamps) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
- 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 500mm) (No limitation of use until 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
- 3(b) Medium length (> 500m and ≤ 1500mm) (No limitation of use until 31 December 2011; 5mg may be used per lamp after 31 December 2011)
- 3(c) Long length (> 1500mm) (No limitation of use until 31 December 2011; 13mg may be used per lamp after 31 December 2011)
- 4(a) Mercury in other low pressure discharge lamps (per lamp) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
- 4(b) Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:
- 4(b)-I P ≤ 155W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 4(b)-II 155W < P ≤ 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 4(b)-III P > 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 4(c) Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
- 4(c)-I $P \le 155W$ (no limitation of use until 31 December 2011; 25mg may be used per burner after 31 December 2011) 4(c)-II $155W < P \le 405W$ (no limitation of use until 31 December 2011; 30mg may be used per burner after 31 December 2011)
- 4(c)-II 155W < P ≤405W (no limitation of use until 31 December 2011; 30mg may be used per burner after 31 December 4(c)-III P > 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 4(d) Mercury in High Pressure Mercury (vapour) lamps (HPMV) (expires on 13 April 2015)
- 4(e) Mercury in metal halide lamps (MH)
- 4(f) Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex
- 4(g) Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and lightartwork, where the mercury content shall be limited as follows: (Expires on 31 December 2018)
 - (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.





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ANNEX

EXEMPTION LIST

Continued

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4 30 15	
5(a)	Lead in glass of cathode ray tubes
5(b)	Lead in glass of fluorescent tubes not exceeding 0.2% by weight
6(a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight
6(b)	Lead as an alloying element in aluminium containing up to 0.4% lead by weight
6(c)	Copper alloy containing up to 4% lead by weight.
7(a)	Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead)
7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling transmission, and network management for telecommunications
7(c)-l	
7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher
7(c)-l	
7(c)-l	
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)
8(b)	Cadmium and its compounds in electrical contacts
9	Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution
9(b)	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications
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)
13(a)	Lead in white glasses used for optical applications
13(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 (expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011)
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip
	Chip packages
17	Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications
18(b)	
21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glass
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring
29	Lead bound in crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC
30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more
31	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design o industrial lighting)
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes
33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers
34	Lead in cermet-based trimmer potentiometer elements
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide

the European Parliament and of the Council (2)) (Expires on 31 December 2018)

Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm2 of light- emitting area) for use in solid state illumination or

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

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display systems (expires on 1 July 2014)