TEST REPORT

Applicant : ZODIC TECHNOLOGY LIMITED

Address : RM 209, Building B, ChuangJing Yi Hao, No. 125, ChuangYe ER Road, Block 28, Baoan District, Shenzhen, China

(The Submitted Sample Said To Be)

Sample Name : Gaming keyboard

Model/Style No. : ZK-G556,ZK-G567,ZK-G568,ZK-G569,ZK-G570,ZK-G571,ZK-G577,ZK-G578, ZK-G582,ZK-G583,ZK-G584,ZK-G586,ZK-G587,ZK-G588,ZK-G596,ZK-G597, ZK-G598, ZK-599,ZK-G600,ZK-G601,ZK-G603,ZK-G612,ZK-G630,ZK-G639, ZK-G640,ZK-G641,ZK-G645,ZK-G650,ZK-G652,ZK-G654,ZK-G663,ZK-G678, ZK-G680,ZK-G682,ZK-G691,ZK-G693,ZK-G704,ZK-G903

Test Period : From Oct. 12, 2020 to Oct. 21, 2020

Tests conducted : As requested by the applicant, for details refer to next page(s).

Executive Summary:

No.	TESTED SAMPLE	STANDARD / REQUIREMENT	CONCLUSION
1	Tested material(s) of submitted sample(s)	Pb, Cd, Hg, CrVI, PBBs and PBDEs - Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 and its subsequent amendments	PASS
2	Tested material(s) of submitted sample(s)	Phthalates - Commission Delegated Directive (EU) 2015/863 of 31 March 2015	PASS

Signed for and on behalf of
Compliance Control Institute (Guangzhou) Co., Ltd

Approved by:
Pascal SHI/Technical Director

Compliance Control Institute (Guangzhou) Co., Ltd.

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TESTS CONDUCTED:

1, Pb, Cd, Hg, Cr(VI), PBBs and PBDEs

Test Method: IEC62321-3-1: 2013, IEC62321-4: 2013+A1:2017, IEC62321-5: 2013, IEC62321-6:2015, IEC62321-7-1:2015, IEC 62321-7-2: 2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

Part No.	Part Description	Characteristic Elements	Results of EDXRF (1)	Results of Wet Chemical Testing (mg/kg) (2)	Conclusion	Comments
1	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
2	Silvery/gold metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
3	White plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
4	Semitransparent plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
5	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
6	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
7	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
8	Black solid	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/

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Part No.	Part Description	Characteristic Elements	Results of EDXRF (1)	Results of Wet Chemical Testing (mg/kg) (2)	Conclusion	Comments
9	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
10	Bronze metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
11	Red plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
12	White plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
13	Silver foil	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
14	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
15	Green plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
16	White plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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17	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
18	Black plastic with white printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
19	Silvery metal with black coating	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
20	Black plastic with white printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
21	Black rubber	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
22	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
23	White plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
24	Transparent plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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Part No.	Part Description	Characteristic Elements	Results of EDXRF (1)	Results of Wet Chemical Testing (mg/kg) (2)	Conclusion	Comments
25	Black metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
26	White plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
27	Red plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
28	Transparent plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
29	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
30	Bronze metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
31	Bronze metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
32	White plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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33	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
34	Silvery metal with black/white printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
35	Transparent plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
36	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
37	Silvery grey metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
38	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
39	Silvery/copper metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
40	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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41	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
42	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
43	Green plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
44	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
45	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
46	Silvery/copper metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
47	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
48	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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49	White plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
50	Red plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
51	Beige plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
52	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
53	Black plastic with white printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
54	Silvery white metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
55	Black rubber	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
56	Brown paper	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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57	Silvery grey foil	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
58	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
59	White ceramic with black printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
60	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
61	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
62	Brown ceramic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
63	Silvery metal	Pb	BL	/	Pass	Resubmitted sample
		Cd	BL	/		
		Hg	BL	/		
		Cr	BL	/		
		Br	NA	/		
64	Light yellow PCB with black/white printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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65	Silvery metal	Pb	BL	/	Pass	Resubmitted sample
		Cd	BL	/		
		Hg	BL	/		
		Cr	BL	/		
		Br	NA	/		

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TEST REPORT

Remark:

(1) ①Results are obtained by EDXRF for primary screening, and further wet chemical testing by ICP-OES (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).

②OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.

③The EDXRF 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 ≤(70-3σ)< X <(130+3σ)≤ OL	BL ≤(70-3σ)< X <(130+3σ)≤ OL	LOD < X <(150+3σ)≤ OL
Pb	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Hg	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X	NA	BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

Units and limits:

Restricted Substances	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	100	1000	1000	1000	1000

(2) ①mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than RL).

②Unit and RL (Reporting limit) in wet chemical test.

Restricted Substances	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	2	2	2	2	5	5

③According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.
Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.
Storage condition and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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TEST REPORT

2 Phthalates (DBP, BBP, DEHP, DIBP) content
Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS#	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	30	30	30	30	
Part No.	Test Results (mg/kg)				
3+4+5	ND	ND	ND	ND	Pass
6+7+11	ND	ND	ND	ND	Pass
12+14+15	ND	ND	ND	ND	Pass
16+18+20	ND	ND	ND	ND	Pass
21+22+23	ND	ND	ND	ND	Pass
24+26+27	ND	ND	ND	ND	Pass
28+32+35	ND	ND	ND	ND	Pass
38+40+43	ND	ND	ND	ND	Pass
44+48+49	ND	ND	ND	ND	Pass
50+51+53	ND	ND	ND	ND	Pass
55+60	ND	ND	ND	ND	Pass
61+64	ND	ND	ND	ND	Pass

Remark:
1, mg/kg = milligram per kilogram (ppm)
2, RL = Reporting Limit
3, ND = Not Detected (Less than RL)

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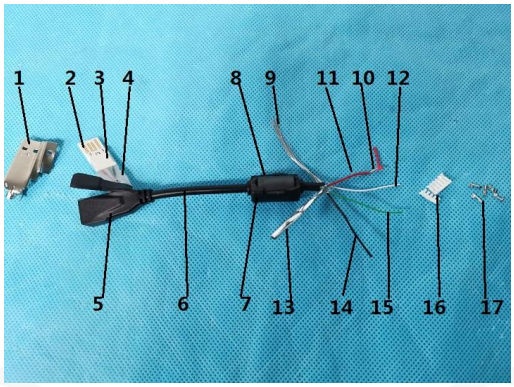
TEST REPORT

Sample Photo



Tested Parts Photos









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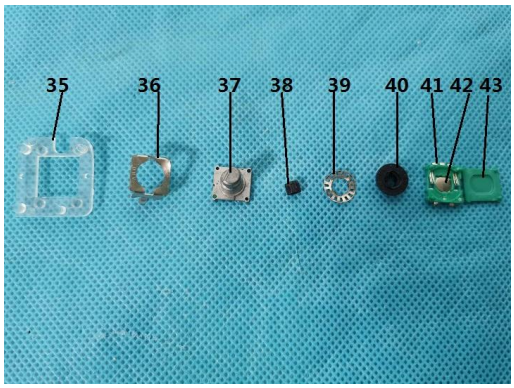
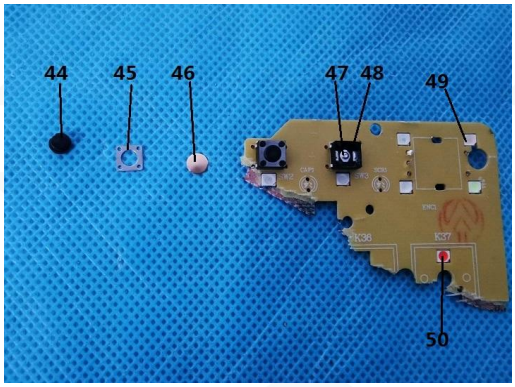
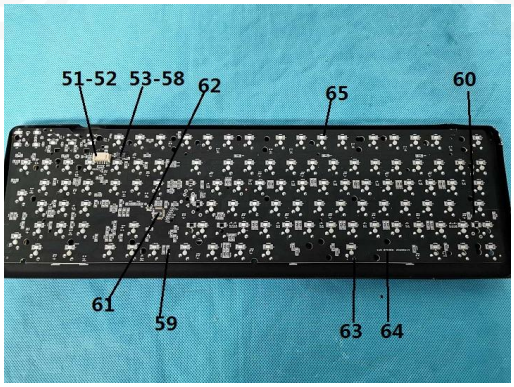
TEST REPORT

Tested Parts Photos







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Appendix

EXEMPTION LIST (ANNEX III TO RoHS DIRECTIVE)

1 Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
1(a) For general lighting purposes < 30W: 2.5mg
1(b) For general lighting purposes ≥ 30W and <50W: 3.5mg
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: 7mg
1(f) For special purposes: 5mg
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): 4mg
2(a)(2) Tri-band phosphor with normal lifetime and a tube diameter ≥ 9mm and ≤ 17mm (e.g. T5): 3mg
2(a)(3) Tri-band phosphor with normal lifetime and a tube diameter > 17mm and ≤ 28mm (e.g. T8): 3.5mg
2(a)(4) Tri-band phosphor with normal lifetime and a tube diameter > 28mm (e.g. T12): 3.5mg
2(a)(5) Tri-band phosphor with long lifetime (≥ 25000h): 5mg
2(b) Mercury in other fluorescent lamps not exceeding (per lamp):
2(b)(3) Non-linear tri-band phosphor lamps with tube diameter > 17mm (e.g. T9): 15mg
2(b)(4) Lamps for other general lighting and special purposes (e.g. induction lamps): 15mg
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 (≤ 500mm): 3.5mg
3(b) Medium length (> 500m and ≤ 1500mm): 5mg
3(c) Long length (> 1500mm): 13mg
4(a) Mercury in other low pressure discharge lamps (per lamp): 15mg
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: 40mg
4(b)-II 155W < P ≤ 405W: 40mg
4(b)-III P > 405W: 40mg
4(c) Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
4(c)-I P≤ 155W: 25mg
4(c)-II 155W < P ≤405W: 30mg
4(c)-III P > 405W: 40mg
4(e) Mercury in metal halide lamps (MH)
4(f) Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex
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 (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.)
6(a)-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 (Expires on 21 July 2021 for categories 1-7 and 10)
6(b) Lead as an alloying element in aluminium containing up to 0.4% lead by weight (Expires on: 21 July 2021 for categories 8 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.)
6(b)-I Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling (Expires on 21 July 2021 for categories 1-7 and 10.)
6(b)-II Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight (Expires on 18 May 2021 for categories 1-7 and 10.)
6(c) Copper alloy containing up to 4% lead by weight. (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.)
7(a) Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead) (Applies to categories 1-7 and 10 (except applications covered under point 24) and expires on 21 July 2021. For categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. For category 8 *in vitro* diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.)
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)-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 categories 1-7 and 10 (except applications covered under point 34) and

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expires on 21 July 2021. For categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. For category 8 *in vitro* diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.)

7(c)-II Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher (Does not apply to applications covered by point 7(c)-I and 7(c)-IV of this Annex. Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control 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.)

7(c)-III Lead in dielectric ceramic in capacitors for a rated voltage of less than 125V AC or 250V DC (For spare parts for EEE placed on the market before 1 January 2013).

7(c)-IV Lead in PZT based dielectric ceramic materials for capacitors being 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 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.)

8(a) Cadmium and its compounds in one shot pellet type thermal cut-offs (For spare parts for EEE placed on the market before 1 January 2012)

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.)

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)

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 (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.)

9(a)-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. (Applies to categories 1-7 and 10 and expires on 5 March 2021.)

9(a)-II Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators:
- designed to operate fully or partly with electrical heater, having an average utilised power input ≥ 75 W at constant running conditions,
- designed to fully operate with non-electrical heater.

(Applies to categories 1-7 and 10 and expires on 21 July 2021.)

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 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.)

11(b) Lead used in other than C-press compliant pin connector systems (For spare parts for EEE placed on the market before 1 January 2013)

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 11; 21 July 2021 for all other categories and subcategories)

13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards (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.)

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)

13(b)-(II) Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex (Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10)

13(b)-(III) Cadmium and lead in glazes used for reflectance standards (Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10)

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 (For 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 (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.)

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:

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- 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.)

17 Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications

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 ($BaSi_2O_5$: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.)

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)

21 Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glass (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.)

21(a) Cadmium when used in colour printed glass to provide filtering functions, used as a component in lighting applications installed in displays and control panels of EEE (Applies to categories 1 to 7 and 10 except applications covered by entry 21(b) or entry 39 and expires on 21 July 2021)

21(b) Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses (Applies to categories 1 to 7 and 10 except applications covered by entry 21(a) or 39 and expires on 21 July 2021)

21(c) Lead in printing inks for the application of enamels on other than borosilicate glasses (Applies to categories 1 to 7 and 10 and expires on 21 July 2021.)

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.)

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 (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.)

30 Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more

31 Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)

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.)

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 (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; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)

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.)

38 Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide

39(a) Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm^2 of display screen area) (Expires for all categories on [two years after the publication of the Delegated Directive in the Official Journal])

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.)

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.

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43 Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed:
(a) 30 % by weight of the rubber for
(i) gasket coatings;
(ii) solid-rubber gaskets; or
(iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine.
(b) 10 % by weight of the rubber for rubber-containing components not referred to in point (a).
For the purposes of this entry, “prolonged contact with human skin” means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.
(Applies to category 11 and expires on 21 July 2024.)

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 ([1]), 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)

★★★★★The End★★★★★

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