

No.: ED191129078C006		Date: December 11, 2019	Page 1 of 14
Applicant Address		Kids, LLC. / KIDDESIGNS INC. 299, Main Street, Rahway, NJ 07065, U.S.A.	
Sample Name	: N	ICKELODEON PAW PATROL HEADPHONES	
Style/Item No.	) : F	W-V124, PW-V124.UEXv7 (PW-V302.11Xv0)	
Supplier	: 9	henzhen Inecan Electronic Co., Ltd.	
Address		201, 54A, Puxia Road, Liuyue Village, Henggang Town henzhen, Guangdong Province, China	, Longgang District,
Trade Mark	: E	REAMWORKS	
Destination	. : E	U	
Country of Origin	: 0	HINA	
Sample Received Date	: N	ovember 29, 2019	
Testing Completed Date	; : C	ecember 11, 2019	
Test Requested	v o	s requested by the client, to evaluate the compliance of ith EU RoHS Directive 2011/65/EU Annex II and its am n the restriction of the use of certain hazardous substan ectronic equipment.	endment (EU) 2015/863
Test Method	: 1	Review was performed for the sample and the related submitted by the Applicant.	Bill of Materials
	2	a) Refer to the standard IEC 62321-3-1:2013: Screen Spectroscopy.	ing by XRF
		b) Wet chemical test	
		<ol> <li>refer to IEC 62321-5: 2013, determine the Cadm content by ICP-OES.</li> </ol>	ium, Lead
		<ol> <li>refer to IEC 62321-4: 2013, determine the Mercu ICP-OES.</li> </ol>	ury content by
		3) refer to IEC 62321-7-1:2015 & IEC 62321-7-2:20 the Hexavalent Chromium content by UV-VIS.	)17, determine
		<ul> <li>4) refer to IEC 62321-6:2015, determine the Polybr Biphenyls and Polybrominated Diphenyl Ethers to 5) refer to IEC 62321-8:2017, determine the Dibuty Benzylbutyl phthalate(BBP), Di-2-ethylhexyl phth Diisobutyl phthalate(DIBP) by GC-MS.</li> </ul>	by GC-MS. I phthalate(DBP),
Test Results	: F	lease refer to next page (s).	

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### **Conclusion:**

Basing on the test results obtained from the homogenous materials, the submitted sample **COMPLY** with the EU RoHS Directive 2011/65/EU Annex II and its amendment (EU) 2015/863.

Signed for and on behalf of EMTEK (Dongguan) Co., Ltd. UAN Reviewed by: Prepared by: Approved by: Kay Li Carrie Zhang Lisa Li **Report Engineer** Supervisor Manager

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东莞市信测科技有限公司 / 地址; 广东省东莞市松山湖高新技术产业开发区新城大道9号中大海洋生物科技研发基地A区2号办公楼负一层、第二层 网址; Http://www.emtek.com.cn EMTEK (Dongguan) Co., Ltd. 邮箱; E-mail: project@emtek.com.cn



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### **Test Results:**

### 1. Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs Test Results:

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Conclusion	Remark	
		Pb	Pb	BL				
		Cd	Cd	BL				
1	Support-blue	Hg	Hg	BL	NA	Pass	No comment	
	hard plastic	Cr <sup>6+</sup>	Cr	BL	NA	Fd55	No comment	
		PBBs	Br	BL				
		PBDEs	Ы	DL				
		Pb	Pb	BL				
		Cd	Cd	BL				
2	Shell-blue	Hg	Hg	BL	NA	Pass	No commont	
2	hard plastic	Cr <sup>6+</sup>	Cr	BL	NA	Fd55	No comment	
		PBBs	Br	DI				
		PBDEs	Ы	BL				
		Pb	Pb	BL	NA		No comment	
	01.111	Cd	Cd	BL				
	Shell-blue hard plastic	Hg	Hg	BL		Desse		
3	with white and black printing	Cr <sup>6+</sup>	Cr	BL		Pass		
	black printing	PBBs		BL				
		PBDEs	Br					
		Pb	Pb	BL				
	Ear muff-	Cd	Cd	BL				
	yellow synthetic	Hg	Hg	BL	NA	Deee		
4	leather back with white	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment	
	fabric	PBBs		DI				
		PBDEs	Br	BL				
		Pb	Pb	BL				
	Ear muff-white	Cd	Cd	BL				
5		Hg	Hg	BL	NA	Deee	No commert	
Э	foam	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment	
		PBBs PBDEs	Br	BL				

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Conclusion	Remark
		Pb	Pb	BL			
		Cd	Cd	BL	-		
6	Ear muff-red	Hg	Hg	BL		Dees	M
6	fabric	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
		PBBs					
		PBDEs	Br	BL			
		Pb	Pb	BL			
		Cd	Cd	BL			
	Speaker-shell-	Hg	Hg	BL			
7	black hard plastic	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
		PBBs					
		PBDEs	Br	Br BL			
		Pb	Pb	BL			
		Cd	Cd	BL	NA		No commont
	Speaker-black	Hg	Hg	BL			
8	hard plastic	Cr <sup>6+</sup>	Cr	BL		Pass	No comment
		PBBs					
		PBDEs	Br	BL			
		Pb	Pb	BL			
		Cd	Cd	BL			
	Speaker-	Hg	Hg	BL			
9	transparent soft plastic	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
		PBBs					
		PBDEs	Br	BL			
		Pb	Pb	BL			
	Speaker-	Cd	Cd	BL			
		Hg	Hg	BL			
10	voice coil- copper metal	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
		PBBs					
		PBDEs	Br	NA			

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Conclusion	Remark
		Pb	Pb	BL			
		Cd	Cd	BL			
11	Speaker-	Hg	Hg	BL	NA	Pass	No comment
	magnet-black solid	Cr <sup>6+</sup>	Cr	BL		Pass	No comment
		PBBs		DI			
		PBDEs	Br	BL			
		Pb	Pb	BL			
		Cd	Cd	BL			
40	Speaker-	Hg	Hg	BL			
12	magnet-silver metal	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
		PBBs					
		PBDEs	Br	NA			
		Pb	Pb	BL			
		Cd	Cd	BL	NA		No commont
	Speaker-wiring	Hg	Hg	BL			
13	board-green PCB	Cr <sup>6+</sup>	Cr	BL		Pass	No comment
		PBBs			ND ND		
		PBDEs	Br	X			
		Pb	Pb	BL			
		Cd	Cd	BL			
	Speaker-wiring board-green	Hg	Hg	BL			
14	PCB-solder-	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
	silver metal	PBBs					
		PBDEs	Br	NA			
		Pb	Pb	BL			
		Cd	Cd	BL			
	Speaker-	Hg	Hg	BL			
15	yellow glue	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
		PBBs		aller aller			
		PBDEs	Br	BL			

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Conclusion	Remark
		Pb	Pb	BL			
		Cd	Cd	BL			
40	Connector wire-tail card-	Hg	Hg	BL			
16	blue soft	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
	plastic	PBBs					
		PBDEs	Br	BL			
		Pb	Pb	BL			
		Cd	Cd	BL			
	Connector wire-buckle-	Hg	Hg	BL			
17	blue soft	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
	plastic	PBBs					
		PBDEs	Br	BL			
		Pb	Pb	BL			
		Cd	Cd	BL	NA		No commont
	Connector	Hg	Hg	BL			
18	wire-skin-red soft plastic	Cr <sup>6+</sup>	Cr	BL		Pass	No comment
		PBBs					
		PBDEs	Br	NA			
		Pb	Pb	BL			
		Cd	Cd	BL			
	Connector	Hg	Hg	BL			
19	wire-core- copper metal	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
		PBBs					
		PBDEs	Br	NA			
		Pb	Pb	BL			
	Connector wire-core-	Cd	Cd	BL			
		Hg	Hg	BL			
20	copper metal with red	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
	coating	PBBs					
		PBDEs	Br	NA			

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		Pb	Pb	BL			
		Cd	Cd	BL	-		
21	Connector	Hg	Hg	BL		Deep	No comment
21	wire-core- white thread	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
		PBBs		DI			
		PBDEs	Br	BL			
		Pb	Pb	BL			
		Cd	Cd	BL			
22	Connector wire-plug-	Hg	Hg	BL	NIA	Dana	
22	cover-blue soft plastic	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
	plastic	PBBs		DI			
		PBDEs	Br	BL			
		Pb	Pb	BL	NA		No comment
		Cd	Cd	BL			
00	Connector wire-plug-	Hg	Hg	BL		Dese	
23	translucent hard plastic	Cr <sup>6+</sup>	Cr	BL		Pass	No comment
		PBBs		DI			
		PBDEs	Br	BL			
		Pb	Pb	BL			
		Cd	Cd	BL			
04	Connector wire-plug-	Hg	Hg	BL	NIA	David	
24	solder-silver metal	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
	metai	PBBs					
		PBDEs	Br	NA			
		Pb	Pb	BL			
		Cd	Cd	BL			
05	Connector	Hg	Hg	BL	NIA	Dest	Nia anno 11
25	wire-plug-bar- silver metal	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
		PBBs		NIA			
		PBDEs	Br	NA			

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF <sup>(1)</sup>	Results of Chemical Testing <sup>(2)</sup> (mg/kg)	Conclusion	Remark
		Pb	Pb	BL			
		Cd	Cd	BL			
	Connector	Hg	Hg	BL	NIA	Dess	No comment
20	26 wire-plug-tube- silver metal	Cr <sup>6+</sup>	Cr	BL	NA	Pass	
		PBBs	D-	NIA			
		PBDEs	Br	NA			
		Pb	Pb	BL			
		Cd	Cd	BL			
07	Connector	Hg	Hg	BL	NIA		
27	27 wire-plug- black solid	Cr <sup>6+</sup>	Cr	BL	NA	Pass	No comment
		PBBs		DI			
		PBDEs	Br	BL			

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### **Test Results:**

#### 2. Phthalates (DBP, BBP, DEHP, DIBP) Test Results:

-		Test Resu	ult (mg/kg)	Reporting	Requirement	
Test Item	1/2/3	4/5/6	7/8/9	10/11/13	Limit (mg/kg)	limit (mg/kg)
Dibutyl phthalate(DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000
Conclusion	Pass	Pass	Pass	Pass		

Test lists	te di te	est Result (mg/k	Reporting	Requirement	
Test Item	15/16/17	18/21/22	23/27	– Limit (mg/kg)	limit (mg/kg)
Dibutyl phthalate(DBP)	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	30	1000
Conclusion	Pass	Pass	Pass		

Note: mg/kg = parts per million = ppm

ND = Not Detected (less than reporting limit)

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Test Material List:

Item No.	Description
1	Support-blue hard plastic
2	Shell-blue hard plastic
3	Shell-blue hard plastic with white and black printing
4	Ear muff-yellow synthetic leather back with white fabric
5	Ear muff-white foam
6	Ear muff-red fabric
7	Speaker-shell-black hard plastic
8	Speaker-black hard plastic
9	Speaker-transparent soft plastic
10	Speaker-
11	Speaker-magnet-black solid
13	Speaker-wiring board-green PCB
15	Speaker-yellow glue
16	Connector wire-tail card-blue soft plastic
17	Connector wire-buckle-blue soft plastic
18	Connector wire-skin-red soft plastic
21	Connector wire-core-white thread
22	Connector wire-plug-cover-blue soft plastic
23	Connector wire-plug-translucent hard plastic
27	Connector wire-plug-black solid

Note: As specified by the client, the samples were subjected to mixed testing.

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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 XRF screening test for RoHS elements The test result may be different from the actual content in the non-uniformity composition sample.

Element	Polymer	Metal	Composite Materials
Cd	BL ≤(70-3 <i>σ</i> )< X <(130+3 <i>σ</i> )	BL ≤(70-3 <i>σ</i> )< X <(130+3 <i>σ</i> )	LOD < X <(150+3 σ )≤ OL
Cu	≤OL	≤OL	LOD < X <(150+37) ≥ OL
DL	BL ≤(700-3 <i>σ</i> )< X <(1300+3	BL ≤(700-3 <i>σ</i> )< X <(1300+3	BL ≤(500-3 <i>σ</i> )< X <(1500+3
Pb	<i>σ</i> )≤ OL	<i>σ</i> )≤ OL	<i>σ</i> )≤ OL
F. S. K. F. S. K.	BL ≤(700-3 <i>σ</i> )< X <(1300+3	BL ≤(700-3 <i>σ</i> )< X <(1300+3	BL ≤(500-3 <i>σ</i> )< X <(1500+3
Hg	<i>σ</i> )≤ OL	<i>σ</i> )≤ OL	<i>σ</i> )≤ OL
Br	BL ≤ (300-3 σ )< 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) a	and Requirement limit in wet chemical test.
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Test items	Pb	Cd	Hg	Cr <sup>6+</sup> (Non-metal)	Cr <sup>6+</sup> (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		5	5
Requirement Limit	1000	100	1000	1000	Negative	1000	1000

③ According to IEC 62321-7-1:2015 & IEC 62321-7-2:2017, result on Cr<sup>6+</sup> for metal sample shall be shown as Positive/Negative.

Negative = Absence of  $Cr^{6+}$  coating, Positive = Presence of  $Cr^{6+}$  coating.

Storage condition and production date of the tested sample are unavailable and thus results of  $Cr^{6+}$  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 screening results are acceptable.

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Photo Appendix



\* \* \* \* \* \* The End \* \* \* \* \* \*

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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  $\ge$  50W and <150W: 5mg
- 1(d) For general lighting purposes  $\geq$  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 (≤ 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  $P \le 155W$  (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≤ 155W (no limitation of use until 31 December 2011; 25mg 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 2011)
- 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

- 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)-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
- 7(c)-II Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher
- 7(c)-III Lead in dielectric ceramic in capacitors for a rated voltage of less than 125V AC or 250V DC (expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013).
- 7(c)-IV Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors
- 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) Cadmium and lead in filter glasses and glasses used for reflectance standards

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) 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<sub>2</sub>O<sub>5</sub>:Pb)
- 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
- Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring 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 or 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
- 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 (expires on 1 July 2014)
- 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 (2)) (Expires on 31 December 2018)

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