

Applicant: eKids, LLC. / KIDDESIGNS INC.Address: 1299, Main Street, Rahway, NJ 07065, U.S.A.Sample Name: NICKELODEON PAW PATROL ADVENTURE KITStyle/Item No.: PW-V339, PW- V339.3Xv8 (PW-V302.11Xv0)Factory: DONGGUAN WILLIE PLASTIC & METAL CO., LTD.Address: N0.23, DAWO INDUSTRY ONE ROAD, XIAGONGTAN INDUSTRIAL	No.: ED191203039C005	Date: Dec. 18, 2019 Page 1 of 17
Sample Name: NICKELODEON PAW PATROL ADVENTURE KITStyle/Item No.: PW-V339, PW- V339.3Xv8 (PW-V302.11Xv0)Factory: DONGGUAN WILLIE PLASTIC & METAL CO., LTD.	Applicant	: eKids, LLC. / KIDDESIGNS INC.
Style/Item No.: PW-V339, PW- V339.3Xv8 (PW-V302.11Xv0)Factory: DONGGUAN WILLIE PLASTIC & METAL CO., LTD.	Address	: 1299, Main Street, Rahway, NJ 07065, U.S.A.
Style/Item No.: PW-V339, PW- V339.3Xv8 (PW-V302.11Xv0)Factory: DONGGUAN WILLIE PLASTIC & METAL CO., LTD.		
Factory : DONGGUAN WILLIE PLASTIC & METAL CO., LTD.	-	
	Style/Item No.	: PW-V339, PW- V339.3Xv8 (PW-V302.11Xv0)
Address : NO.23, DAWO INDUSTRY ONE ROAD. XIAGONGTAN INDUSTRIAL	Factory	: DONGGUAN WILLIE PLASTIC & METAL CO., LTD.
	Address	: NO.23, DAWO INDUSTRY ONE ROAD, XIAGONGTAN INDUSTRIAL
AREA, FENGGANG TOWN, DONGGUAN CITY, GUANGDONG		AREA, FENGGANG TOWN, DONGGUAN CITY, GUANGDONG
PROVINCE, CHINA.		PROVINCE, CHINA.
Trade Mark : NICKELODEON	Trade Mark	: NICKELODEON
Destination : EU	Destination	: EU
Country of Origin : CHINA	Country of Origin	: CHINA
Received Date : Dec. 03, 2019	Received Date	: Dec. 03, 2019
Test Period : Dec. 03, 2019 ~ Dec. 18, 2019	Test Period	: Dec. 03, 2019 ~ Dec. 18, 2019
Test Requested : As requested by the client, to evaluate the compliance of the submitted sample	Test Requested	: As requested by the client, to evaluate the compliance of the submitted sample
with EU RoHS Directive 2011/65/EU Annex II and its amendment (EU) 2015/863		with EU RoHS Directive 2011/65/EU Annex II and its amendment (EU) 2015/863
on the restriction of the use of certain hazardous substances in electrical and		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 Materials submitted	Test Method	: 1. Review was performed for the sample and the related Bill of Materials submitted
by the Applicant.		by the Applicant.
2. a) Refer to the standard IEC 62321-3-1:2013: Screening by XRF		
Spectroscopy.		
 b) Wet chemical test 1) refer to IEC 62321-5: 2013, determine the Cadmium, Lead content 		
by ICP-OES.		
2) refer to IEC 62321-4: 2013, determine the Mercury content by ICP-OES.		
3) refer to IEC 62321-7-1:2015 & IEC 62321-7-2:2017, determine the		
Hexavalent Chromium content by UV-VIS.		Hexavalent Chromium content by UV-VIS.

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- 4) refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls and Polybrominated Diphenyl Ethers by GC-MS.
- 5) refer to IEC 62321-8:2017, determine the Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), Di-2-ethylhexyl phthalate(DEHP) and Diisobutyl phthalate(DIBP) by GC-MS.

Test Results

: Please refer to next page (s).

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 Approved by: Prepared by: Reviewed by: Li Huilan, Kay Zhang Hongjing, Carrie Li Wei. Lisa Manager Report Engineer Supervisor Dec. 18, 2019 Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. 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



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Test Results:

1. Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs Test Results:

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
		Pb	Pb	BL			
		Cd	Cd	BL			
1	Telescope-shell- light blue hard	Hg	Hg	BL	NA	Pass	No comment
	plastic	Cr ⁶⁺	Cr	BL	NA NA	F 855	No comment
		PBBs	Br	BL			
		PBDEs	Ы	DL			
		Pb	Pb	BL			
		Cd	Cd	BL			
2	Telescope-shell-	Hg	Hg	BL	NA	Pass	No comment
2	blue hard plastic	Cr ⁶⁺	Cr	BL		Pass	no comment
		PBBs PBDEs	Br	BL			
		Pb	Pb	BL		Pass	No comment
		Cd	Cd	BL			
	Telescope-shell-	Hg	Hg	BL			
3	transparent hard plastic	Cr ⁶⁺	Cr	BL	NA		
	plaotio	PBBs	-	D.			
		PBDEs	Br	BL			
		Pb	Pb	BL			
		Cd	Cd	BL			
4	Telescope-shell-	Hg	Hg	BL	NA	Deee	
4	label	Cr ⁶⁺	Cr	BL	NA NA	Pass	No comment
		PBBs	D.*	BL			
		PBDEs	Br	DL			
		Pb	Pb	BL			
		Cd	Cd	BL	NA		
5	Telescope- screw-silver	Hg	Hg	BL		Pass	No comment
5	metal	Cr ⁶⁺	Cr	BL		F d 3 3	
		PBBs	Br	NA			
		PBDEs	וט	IN/A			

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
		Pb	Pb	BL			
		Cd	Cd	BL			
6	Flashlight-shell-	Hg	Hg	BL	NA	Deee	No commont
0	blue hard plastic	Cr ⁶⁺	Cr	BL	NA NA	Pass	No comment
		PBBs	Br	BL			
		PBDEs	Ы	DL			
		Pb	Pb	BL			
		Cd	Cd	BL			
7	Flashlight-shell- light blue hard	Hg	Hg	BL	NA	Pass	No comment
1	plastic	Cr ⁶⁺	Cr	BL	INA INA	FdSS	NO COMMENT
		PBBs	Br	BL			
		PBDEs					
		Pb	Pb	BL		Pass	No comment
	Flashlight-shell-	Cd	Cd	BL			
8	blue hard plastic	Hg	Hg	BL	NA		
Ū	with silver coating	Cr ⁶⁺	Cr	BL			
	ocaling	PBBs	Br	BL			
		PBDEs					
		Pb	Pb	BL			
		Cd	Cd	BL			
9	Flashlight-shell- contact plate-	Hg	Hg	BL	NA	Pass	No comment
Ū	silver metal	Cr ⁶⁺	Cr	BL		1 400	
		PBBs	Br	NA			
		PBDEs	5				
		Pb	Pb	BL	NA		
		Cd	Cd	BL			
10	Flashlight-shell- spring-silver	Hg	Hg	BL		Pass	No comment
10	metal	Cr ⁶⁺	Cr	BL		1 455	No commone
		PBBs	Br	NA			
		PBDEs			d for your exclusive use. This test		ne testes

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
		Pb	Pb	BL			
		Cd	Cd	BL			
	Flashlight-shell-	Hg	Hg	BL	NIA	D	
11	screw-silver metal	Cr ⁶⁺	Cr	BL	NA	Pass	No comment
		PBBs	þ	NIA			
		PBDEs	Br	NA			
		Pb	Pb	BL			
		Cd	Cd	BL			
12	Flashlight-shell-	Hg	Hg	BL	NA	Deee	No commont
12	nut-silver metal	Cr ⁶⁺	Cr	BL		Pass	No comment
		PBBs	Dr	NA			
		PBDEs	Br	NA			
		Pb	Pb	BL		Pass	Pass No comment
		Cd	Cd	BL			
13	Flashlight- connect wire-	Hg	Hg	BL	NA		
13	black soft plastic	Cr ⁶⁺	Cr	BL	NA		
		PBBs	Br	BL			
		PBDEs	DI	DL			
		Pb	Pb	BL			
		Cd	Cd	BL			
14	Flashlight- connect wire-	Hg	Hg	BL	NA	Pass	No comment
14	red soft plastic	Cr ⁶⁺	Cr	BL		F 855	NO COMMENT
		PBBs	Br	BL			
		PBDEs	Ы	DL			
		Pb	Pb	BL	NA		
		Cd	Cd	BL			
15	Flashlight-	Hg	Hg	BL		Page	No comment
10	connect wire- copper metal	Cr ⁶⁺	Cr	BL		Pass	
		PBBs	Br	NA			
		PBDEs			d for your exclusive use. This test		ne testes

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
		Pb	Pb	BL			
		Cd	Cd	BL	NA		
16	Flashlight-green	Hg	Hg	BL	INA INA	Deee	No comment
10	PCB	Cr ⁶⁺	Cr	BL		Pass	no comment
		PBBs	Br	Х	ND		
		PBDEs	Ы	^	ND		
		Pb	Pb	BL			
		Cd	Cd	BL			
47	Flashlight-PCB-	Hg	Hg	BL	NA	Deve	
17	solder-silver metal	Cr ⁶⁺	Cr	BL	NA	Pass	See remark (3)
		PBBs	(
		PBDEs	Br	NA			
		Pb	Pb	BL			
		Cd	Cd	BL			
10	Flashlight-PCB-	Hg	Hg	BL		NA Pass	No comment
18	black solid	Cr ⁶⁺	Cr	BL	NA		
		PBBs	Di	DI			
		PBDEs	Br	BL			
		Pb	Pb	BL			
		Cd	Cd	BL			
19	Flashlight-PCB-	Hg	Hg	BL	NA	Deee	No commont
19	silver metal	Cr ⁶⁺	Cr	BL	INA INA	Pass	No comment
		PBBs	Br	NA			
		PBDEs	DI	INA			
		Pb	Pb	BL			
	Elachlight DCP	Cd	Cd	BL	-		
20	Flashlight-PCB- green solid with	Hg	Hg	BL		Deee	No commont
20	multicolor	Cr ⁶⁺	Cr	BL	NA	Pass	No comment
	coating	PBBs	D	ים			
t regulte are	results are only responsible for delivered si	PBDEs	Br	BL	d for your oxplusivo uno. This tost	report includes all of t	ne testes

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
		Pb	Pb	BL			
		Cd	Cd	BL			
21	Flashlight-PCB-	Hg	Hg	BL	NA	Deee	No commont
21	transparent hard plastic	Cr ⁶⁺	Cr	BL	NA	Pass	No comment
		PBBs	Br	BL			
		PBDEs	Ы	DL			
		Pb	Pb	BL			
	Flashlight-PCB-	Cd	Cd	BL			
22	slide switch-	Hg	Hg	BL	NA	Pass	No comment
22	shell-silver	Cr ⁶⁺	Cr	BL		Pass	no comment
	metal	PBBs	D-	NIA			
		PBDEs	Br	NA			
		Pb	Pb	BL		Pass	
	Elechlight DCD	Cd	Cd	BL			No comment
22	Flashlight-PCB- slide switch-	Hg	Hg	BL	NA		
23	black hard	Cr ⁶⁺	Cr	BL	NA		
	plastic	PBBs	Br	BL			
		PBDEs	DI	DL			
		Pb	Pb	BL			
	Flashlight-PCB-	Cd	Cd	BL			
24	slide switch-	Hg	Hg	BL	NA	Pass	No comment
24	slide plate-silver metal	Cr ⁶⁺	Cr	BL	INA INA	F 855	NO COMMENT
	metai	PBBs	Br	NA			
		PBDEs	DI	INA			
		Pb	Pb	BL	NA		
		Cd	Cd	BL			
25	Flashlight-PCB- slide switch-	Hg	Hg	BL		Page	No comment
20	brown PCB	Cr ⁶⁺	Cr	BL		Pass	
		PBBs	Br	х	ND		
		PBDEs			ND d for your exclusive use. This test		

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
		Pb	Pb	BL			
		Cd	Cd	BL			
26	Flashlight-PCB- slide switch-pin-	Hg	Hg	BL	NA	Pass	No comment
20	silver metal	Cr ⁶⁺	Cr	BL	NA	Fd55	NO COmment
		PBBs	Br	NA			
		PBDEs	Ы	INA			
		Pb	Pb	BL			
	Compass-shell-	Cd	Cd	BL			
27	light blue hard	Hg	Hg	BL	NA	Dooo	No commont
21	plastic with	Cr ⁶⁺	Cr	BL	INA NA	Pass	No comment
	black printing	PBBs	Dr	Ы			
		PBDEs	Br	BL			
		Pb	Pb	BL		Pass	
		Cd	Cd	BL			No comment
20	Compass-shell-	Hg	Hg	BL	NIA		
28	label	Cr ⁶⁺	Cr	BL	NA		no comment
		PBBs	Br	BL			
		PBDEs	Ы	DL			
		Pb	Pb	BL			
		Cd	Cd	BL			
29	Compass-shell-	Hg	Hg	BL	NA	Pass	No comment
29	silver metal	Cr ⁶⁺	Cr	BL	INA INA	rdss	NO COMMENT
		PBBs	Br	NA			
		PBDEs	DI	INA			
		Pb	Pb	BL	NA		
		Cd	Cd	BL			
30	Compass(up)-	Hg	Hg	BL		Deee	No commont
30	inner-label	Cr ⁶⁺	Cr	BL		Pass	No comment
		PBBs	D.,	Ы			
		PBDEs	Br	BL	d for your exclusive use. This test		

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark	
		Pb	Pb	BL				
		Cd	Cd	BL				
31	Compass-black	Hg	Hg	BL	NIA	Deee		
31	hard plastic	Cr ⁶⁺	Cr	BL	NA	Pass	No comment	
		PBBs	Br	BL				
		PBDEs	Ы	DL				
		Pb	Pb	BL				
		Cd	Cd	BL				
32	Compass-	Hg	Hg	BL	NA	Pass	No comment	
32	transparent hard plastic	Cr ⁶⁺	Cr	BL	INA	Fass	No comment	
		PBBs PBDEs	Br	BL				
		Pb	Pb	BL		/	No commont	
		Cd	Cd	BL		Pass		
00	Compass(below	Hg	Hg	BL				
33)-inner-label	Cr ⁶⁺	Cr	BL	NA		No comment	
		PBBs	Dr	BL				
		PBDEs	Br	BL				
		Pb	Pb	BL				
	Compass-	Cd	Cd	BL				
34	pointer-silver metal with	Hg	Hg	BL	NA	Pass	No comment	
34	red/white	Cr ⁶⁺	Cr	BL	INA	r doo	NO COMMENT	
	coating	PBBs	Br	NA				
		PBDEs	DI	ΝA				
		Pb	Pb	BL				
		Cd	Cd	BL	NA			
35	Compass- support-silver	Hg	Hg	BL		Pass	No comment	
30	metal	Cr ⁶⁺	Cr	BL		F d 3 3		
		PBBs	Br	NA				
		PBDEs			d for your exclusive use. This test			

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Test Results:

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

Taat la a		Test Resu	ult (mg/kg)	Reporting	Requirement	
Test Item	1/2/3	4/6/7	8/13/14	16/18/20	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 liem	Te	est Result (mg/k	Reporting	Requirement	
Test Item	21/23/25	27/28/30	31/32/33	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	Telescope-shell-light blue hard plastic						
2	Telescope-shell- blue hard plastic						
3	Telescope-shell-transparent hard plastic						
4	Telescope-shell-label						
6	Flashlight-shell-blue hard plastic						
7	Flashlight-shell-light blue hard plastic						
8	Flashlight-shell-blue hard plastic with silver coating						
13	Flashlight-connect wire-black soft plastic						
14	Flashlight-connect wire-red soft plastic						
16	Flashlight-green PCB						
18	Flashlight-PCB-black solid						
20	Flashlight-PCB-green solid with multicolor coating						
21	Flashlight-PCB-transparent hard plastic						
23	Flashlight-PCB-slide switch-black hard plastic						
25	Flashlight-PCB-slide switch-brown PCB						
27	Compass-shell- light blue hard plastic with black printing						
28	Compass-shell-label						
30	Compass(up)-inner-label						
31	Compass-black hard plastic						
32	Compass-transparent hard plastic						
33	Compass(below)-inner-label						

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>)≤ OL	BL ≤(70-3 <i>σ</i>)< X <(130+3 <i>σ</i>)≤ OL	LOD < X <(150+3 <i>σ</i>)≤ OL		
Pb	BL ≤(700-3 <i>σ</i>)< X <(1300+3 <i>σ</i>)	BL ≤(700-3 <i>σ</i>)< X <(1300+3 <i>σ</i>)	BL ≤(500-3 <i>σ</i>)< X <(1500+3 <i>σ</i>)		
FD	≤ OL	≤ OL	≤ OL		
Ha	BL ≤(700-3 <i>σ</i>)< X <(1300+3 <i>σ</i>)	BL ≤(700-3 <i>σ</i>)< X <(1300+3 <i>σ</i>)	BL ≤(500-3 <i>σ</i>)< X <(1500+3 <i>σ</i>)		
Hg	≤ OL	≤ OL	≤ OL		
Br	BL ≤ (300-3 <i>σ</i>)< X	NA	BL ≤ (250-3 <i>σ</i>)< X		
Cr	BL ≤ (700-3 <i>σ</i>)< Χ	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 62321-7-1:2015 & IEC 62321-7-2:2017, result on Cr⁶⁺ 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 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 screening results are acceptable.
- (3) No.17 the XRF screening results for Pb, Cd, Hg and Cr were obtained for the resubmitted sample on Dec. 16, 2019.

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Sample Photo



*** End of Report ***

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- 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 \ge 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 $\geq 50W$ 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 ≤ 28 mm (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 (\geq 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 \leq 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 $155W < P \le 405W$ (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 ≤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 light-artwork, 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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- 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
- 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 (BaSi₂O₅: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
- 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 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 mm² 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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- Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for 43 consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and concentration value of bis(2-ethylhexyl) phthalate does not exceed: a)
 - 30% by weight of the rubber for
 - gasket coatings; (i)
 - solid-rubber gaskets; or (ii)
 - (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.
 - h) 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.
 - Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council, installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users.

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Add: -1&2/F "Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base "No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China Http://www.emtek.com.cn E-mail: project@emtek.com.cn

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- 4.如果本公司确定报告被不当地使用,本公司保留撤回报告的权利,并有权要求其它适当的额外赔偿。 In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 5. 本公司接受样品进行测试的前提是, 该测试报告不能作为针对本公司法律行动的依据。 Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 6.如因使用本公司中心任何报告内的资料,或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害,本公司概不负责。 The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 7.若需要在法院审理程序或者仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。 Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 8.该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。

Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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