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(EVERLIGHT ELECTRONICS CO., LTD.)

6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

Type of Product	HIGH POWER LED_ELSH
Supplier Company Name	EVERLIGHT
Address	NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN
Tel / Fax / Email	TEL:886-2685-6688
	FAX:886-2685-6699
	E-MAIL: lindawang@everlight.com
Contact Person	LI LING WANG
EVERLIGHT REPORT NO	HIGH POWER ELSH SERIES
	Sampling Product : ELSH-F41R1-0LPNM-AR5R6-SGS-15-Mar-2024
Product/component Sample description	Automotive exterior lighting
Quantity (numbers or weight)	0.037 g
EVERLIGHT P/N	HIGH POWER ELSH SERIES
	Sampling Product : ELSH-F41R1-0LPNM-AR5R6
Product Lot No	Y240105A8902VB20W6L
Country of Origin	TAIWAN
Sample preparation	CUTTING
Test Method	RoHS: IEC 62321, Halogen: BS EN 14582
MDL	Cd, Pb, Hg: 2 mg/kg, PBBs/PBDEs: 5 mg/kg, Halogen: 50 mg/kg
(Sample Submitted By)	(EVERLIGHT ELECTRONICS CO., LTD.)

(Sample Receiving Date) (Testing Period) 06-Mar-2024 06-Mar-2024 to 15-Mar-2024

(Please refer to following pages).





PIN CODE: 83A6C019

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(EVERLIGHT ELECTRONICS CO., LTD.)

- 6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)
 - RoHS 2011/65/EU Annex II (EU) 2015/863

 , DBP, BBP, DEHP, DIBP (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

 (2) PAHs (As specified by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client, to test PAHs and provide the submitted sample by client by client, to test PAHs and provide the submitted sample by client by
 - other item(s).) (1)

(2)

No.1(TRAN SPARENT GLUE)No.2(SILVER-WHITE COLORED SHEET)

IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013, analysis was performed by ICP- OES.)	mg/kg	2	n.d.	n.d.	100
IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013, analysis was performed by ICP- OES.)	mg/kg	2	n.d.	n.d.	1000

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(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP- OES.)	mg/kg	2	n.d.	n.d.	1000
Cr(VI) (Hexavalent Chromium Cr(VI))	IEC 62321-7-2: 2017 - (With reference to IEC 62321-7-2: 2017, analysis was performed by UV- VIS.)	mg/kg	8	n.d.	n.d.	1000
(Monobromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Dibromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Tribromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Tetrabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Pentabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Hexabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Heptabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Octabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Nonabromobiphenyl)	IEC 62321-6: 2015	mg/kg	5	n.d.	n.d.	-
(Decabromobiphenyl)	/ (With	mg/kg	5	n.d.	n.d.	-
	reference to IEC 62321-6: 2015,	mg/kg	-	n.d.	n.d.	1000
(Monobromodiphenyl ether)	analysis was performed by	mg/kg	5	n.d.	n.d.	-
(Dibromodiphenyl ether)	GC/MS.)	mg/kg	5	n.d.	n.d.	-
(Tribromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Tetrabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Pentabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Hexabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Heptabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Octabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Nonabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Decabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
		mg/kg	-	n.d.	n.d.	1000

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		1				1
						-
(BBP) (Butyl		mg/kg	50	n.d.	n.d.	1000
benzyl phthalate (BBP))		0 0				
(DBP) (Dibutyl]	mg/kg	50	n.d.	n.d.	1000
phthalate (DBP))	1					
(2-) (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	n.d.	1000
(DIBP)	1	mg/kg	50	n.d.	n.d.	1000
(Diisobutyl phthalate (DIBP))						
(DIDP)		mg/kg	50	n.d.	n.d.	-
(Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)						
(DIN P)	4	malka	50	n.d.	n.d.	
(Diisononyl phthalate (DINP)) (CAS		mg/kg	50	n.u.	n.a.	-
No.: 28553-12-0, 68515-48-0)						
(DNOP) (Di-n-	IEC 62321-8: 2017	mg/kg	50	n.d.	n.d.	-
octyl phthalate (DNOP)) (CAS No.:	/ (With reference to IEC 62321-8: 2017,	0 0				
117-84-0)	analysis was performed by					
(DNPP) (Di-n-	GC/MS.)	mg/kg	50	n.d.	n.d.	-
pentyl phthalate (DNPP)) (CAS No.:						
131-18-0)	4		50	in al		
(DNHP) (Di-n- hexyl phthalate (DNHP)) (CAS No.:		mg/kg	50	n.d.	n.d.	-
84-75-3)						
(2-) (DMEP)	4	mg/kg	50	n.d.	n.d.	_
(Bis(2-methoxyethyl) phthalate		5 5				
(DMEP)) (CAS No.: 117-82-8)						
(DMP) (Dimethyl]	mg/kg	50	n.d.	n.d.	-
phthalate (DMP)) (CAS No.: 131-11-						
3)	4		F ^			
(DIOP) (Diisooctyl phthalate (DIOP)) (CAS		mg/kg	50	n.d.	n.d.	-
No.: 27554-26-3)						
1027007 20 0)						

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(DNNP) (Di-n- nonyl phthalate (DNNP)) (CAS No.: 84-76-4)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	n.d.	_
(HBCDD) (- HBCDD, - HBCDD, - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (- HBCDD, - HBCDD, - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.	n.d.	-
(F) (Fluorine (F)) (CASNo.: 14762- 94-8)		mg/kg	50	466	119	_
(CI) (Chlorine (CI)) (CASNo.: 22537-15-1)	BS EN 14582: 2016 (With reference to	mg/kg	50	n.d.	n.d.	-
(Br) (Bromine (Br)) (CASNo.: 10097-32-2)	BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	n.d.	-
(I) (Iodine (I)) (CASNo.: 14362-44- 8)		mg/kg	50	n.d.	n.d.	-
(PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968:	mg/kg	0.01	n.d.	n.d.	-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	n.d.	-
(Be) (Beryllium (Be)) (CASNo.: 7440-41-7)	US EPA 3052: 1996 (With reference to US EPA 3052: 1996, analysis was performed by ICP- OES.)	mg/kg	2	n.d.	n.d.	-

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(a) (Benzo[a]pyrene) (CASNo.: 50-32-8)		mg/kg	0.2	n.d.	n.d.	
(e) (Benzo[e]pyrene) (CAS No.:		mg/kg	0.2	n.d.	n.d.	
192-97-2)						
(Benzo[a]anthracene) (CAS		mg/kg	0.2	n.d.	n.d.	
No.: 56-55-3)						
(b) (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	n.d.	
(j) (Benzo[j]fluoranthene)		mg/kg	0.2	n.d.	n.d.	
(CAS No.: 205-82-3)		5 5				
(k) (Benzo[k]fluoranthene)		mg/kg	0.2	n.d.	n.d.	
(CAS No.: 207-08-9)	A fPS G S 2019:01 PA K					
(Chrysene) (CASNo.: 218-01-9)	/ (With	mg/kg	0.2	n.d.	n.d.	
(Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)	reference to AfPS GS 2019:01	mg/kg	0.2	n.d.	n.d.	
(Benzo[g,h,i]perylene) (CAS	PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	n.d.	
No.: 191-24-2)						
(Indeno[1,2,3-c,d]pyrene)		mg/kg	0.2	n.d.	n.d.	
(CAS No.: 193-39-5)						
(Anthracene) (CASNo.: 120-12-7)		mg/kg	0.2	n.d.	n.d.	
(Fluoranthene) (CASNo.: 206-		mg/kg	0.2	n.d.	n.d.	
44-0)			0.0	un el	un al	
(Phenanthrene) (CASNo.: 85-01- 8)		mg/kg	0.2	n.d.	n.d.	
(Pyrene) (CASNo.: 129-00-0)		mg/kg	0.2	n.d.	n.d.	
(Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.	n.d.	
		mg/kg	-	n.d.	n.d.	
		2 0				

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1. mg/kg = ppm 0.1wt% = 0.1% = 1000ppm 2. MDL = Method Detection Limit () 3. n.d. = Not Detected (); MDL / Less than MDL 4. "-" = Not Regulated () 5. ILAC-G 8:09/2019 (w=0)

(Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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	1 (Category 1)	2 (Cate	egory 2)	3 (Cat	egory 3)
(Parameter)	(30) 2009/48/EC 3 (Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3	are not in Category	eable long-term seconds) or	1 2 ()(Mat covered by Catego intended or foresed term skin contact (30 erials not ry 1 or 2, with eable short-
	years of age with intended long-term skin contact (> 30 seconds))	a. 14 (Use by children under 14)	b. (Other consumer products)	a. 14 (Use by children under 14)	b. (Other consumer products)
Naphthalene	< 1	< 2) -	< 10	0
Phenanthrene					
Anthracene	<pre> < 1 Sum</pre>	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Fluoranthene	< 1 Sulli	< 5 Sulli	< TO SUIT	< 20 Sulli	< 50 Sum
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
15 PAH (Sum of 15 PAH)	< 1	< 5	< 10	< 20	< 50

(Unit) mg/kg

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PFAS	PFAS		PFAS		
			PFAS		PFAS
	(PFAS		PFA S)

(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

	(Perfluorooctane sulfonates) (PFOS)	1763-23-1
	(PFOS-K) Potassium perfluorooctanesulfonate (PFOS- K)	2795-39-3
	(PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	(PFOS-NH ₄) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
PFOS, & (PFOS, its salts & derivatives)	(PFOS-NH(OH) ₂) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8
	$(PFO S-N (C_2H_5)_4) \\ Perfluorooctanesulfonic \\ acid,tetraethylammonium salt (PFOS-N(C_2H_5)_4) \\ \label{eq:product}$	56773-42-3
	(PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctane-1-sulfonate (PFOS- DDA)	251099-16-8

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	(POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	(PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
PFOS, & (PFOS, its salts & derivatives)	(PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctanesulfonate	
	(Perfluorooctanoic acid) (PFOA)	335-67-1

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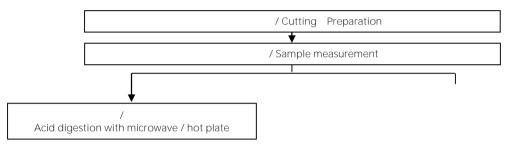


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These samples were dissolved totally by pre-conditioning method according to below flow chart. Cr⁶⁺ test method excluded



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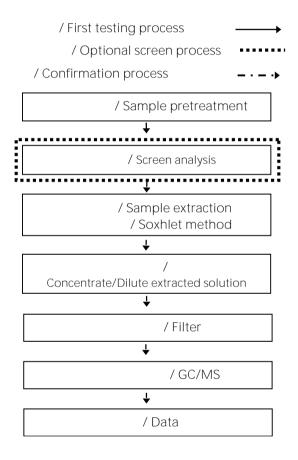


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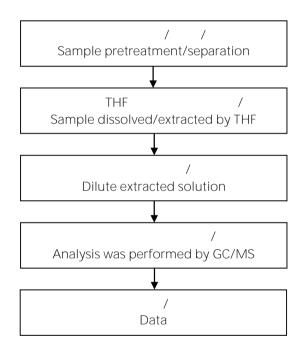


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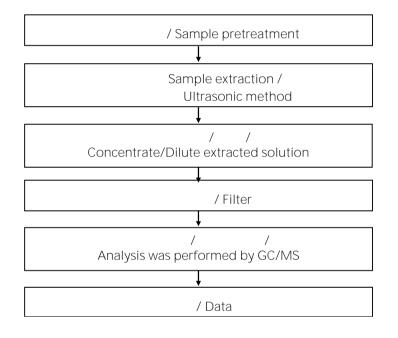


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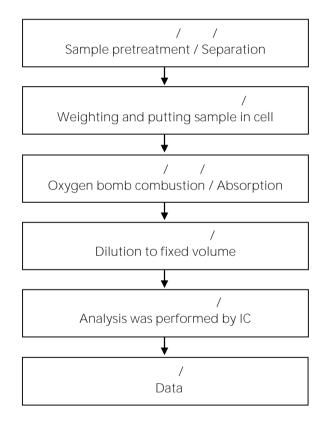


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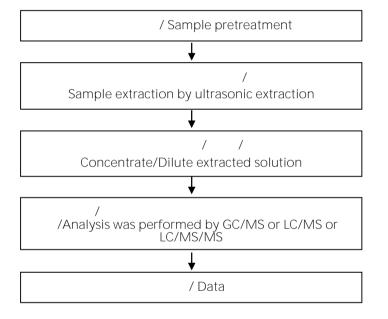
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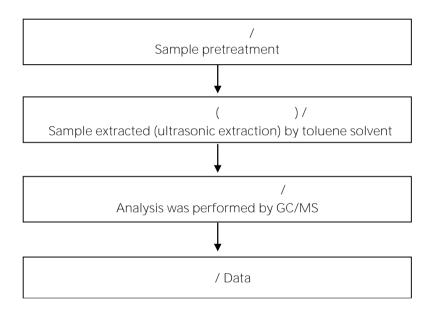


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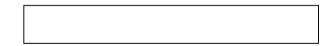
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(EVERLIGHT ELECTRONICS CO., LTD.) 6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

These samples were dissolved totally by pre-conditioning method according to below flow chart. /Reference method US EPA 3051A US EPA 3052

/ Solution



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ETR24301222 NO 1

ETR24301222 NO.2



(End of Report) **

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