

(No.): ETR23600251

(Date): 15-Jun-2023

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(EVERLIGHT ELECTRONICS CO., LTD.)

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

BASIC INFORMATION			
Type of Product	HIGH POWER LED_CH2016-X		
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: allenchiang@everlight.com		
Contact Person	Allen		
EVERLIGHT REPORT NO	EVERLIGHT-CH2016-X SERIES Sampling Product : CH2016E-C07001L-53A64DJ6K23037-2T-AM-SGS-15-Jun-2023		
PRODUCT INFORMATION	•		
Product/component Sample description	DRL(white) ,Tail lamp(red) ,Turning light(pc amber)		
Quantity (numbers or weight)	0.0094 g		
EVERLIGHT P/N	CH2016-X SERIES		
	Sampling Product : CH2016E-C07001L-53A64DJ6K23037-2T-AM		
Product Lot No	T230317A0702GP15W6L		
Country of Origin	TAIWAN		
TEST INFORMATION			
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)	02-Jun-2023		
(Testing Period)	02-Jun-2023 to 15-Jun-2023		

(Please refer to following pages).



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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



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(1) RoHS 2011/65/EU Annex II (EU) 2015/863 : , DBP, BBP, DEHP, DIBP (A S 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).) PAHs (As specified by client, to test PAHs (2)and other item(s).) , DBP, 5 (1)BBP, DEHP, DIBP RoHS 2011/65/EU Annex II (EU)

2015/863(Based on the performed tests on submittedsample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs,DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU)2015/863 amending Annex II to Directive 2011/65/EU.)

(A fPS) G S

PAHs 3 (Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 3) O ther consumer products as set by German Committee on Product Safety (AfPS) GS PAHs.)

No.1 : HIGH POWER LED_CH2016-X

(2)

(Test Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (With reference to IEC 62321-5: - 2013, analysis was performed by ICP-OES.)		2	n.d.	100
(Pb) (Lead (Pb))			2	n.d.	1000

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(Test Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)
(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.	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.	1000
(Monobromobiphenyl)		mg/kg	5	n.d.	-
(Dibromobiphenyl)		mg/kg	5	n.d.	-
(Tribromobiphenyl)		mg/kg	5	n.d.	-
(Tetrabromobiphenyl)		mg/kg	5	n.d.	-
(Pentabromobiphenyl)		mg/kg	5	n.d.	-
(Hexabromobiphenyl)		mg/kg	5	n.d.	-
(Heptabromobiphenyl)		mg/kg	5	n.d.	-
(Octabromobiphenyl)		mg/kg	5	n.d.	-
(Nonabromobiphenyl)		mg/kg	5	n.d.	-
(Decabromobiphenyl)	IEC 62321-6: 2015 /	mg/kg	5	n.d.	-
	(With reference to IEC 62321-6:	mg/kg	-	n.d.	1000
(Monobromodiphenyl ether)	2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
(Dibromodiphenyl ether)		mg/kg	5	n.d.	-
(Tribromodiphenyl ether)		mg/kg	5	n.d.	-
(Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
(Pentabromodiphenyl ether)		mg/kg	5	n.d.	-
(Hexabromodiphenyl ether)		mg/kg	5	n.d.	-
(Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
(Octabromodiphenyl ether)		mg/kg	5	n.d.	-
(Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
(Decabromodiphenyl ether)		mg/kg	5	n.d.	-
		mg/kg	-	n.d.	1000

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(EVERLIGHT ELECTRONICS CO., LTD.)

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(Test Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)
(BBP) (Butyl benzyl phthalate (BBP))	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
(DBP) (Dibutyl phthalate (DBP))	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
(æ=) (DEHP) (Di-(2- ethylhexyl) phthalate (DEHP))	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
(DIBP) (Diisobutyl phthalate (DIBP))	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
(DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
(DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
(DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
(DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
(DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
(2-) (DMEP) (Bis(2- methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
(DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-

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			MDL		
(Method)		(Unit)			(Limit)
				No.1	
IEC 62321-8: 2017	/	mg/kg	50	n.d.	-
(With reference to IEC	62321-8:				
2017, analysis was performed b	by GC/MS.)				
IEC 62321-8: 2017	/	mg/kg	50	n.d.	-
(With reference to IEC	62321-8:				
2017, analysis was performed b	by GC/MS.)				
IEC 62321: 2008	/	mg/kg	5	n.d.	-
(With reference to IEC 62	2321: 2008,	0 0			
analysis was performed by GC/	'MS.)				

	mg/kg	50	98.1	-
	mg/kg	50	n.d.	-
	mg/kg	50	n.d.	-
	mg/kg	50	n.d.	-
CEN /TS 15968: 2010				
(With reference to CEN/TS				
15968: 2010, analysis was performed by				
LC/MS/MS.)				

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

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1. mg/kg = ppm 0.1 wt% = 0.1% = 1000ppm2. MDL = Method Detection Limit (3. n.d. = Not Detected (); MDL / Less than MDL 4. "-" = Not Regulated () (PFOS and its salts including): 5. CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others. (PFOA and its salts including): 6. CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others. 7. ILAC-G8:09/2019 (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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AfPS (German commission for Product Safety): GS PAHs requirements

	1 (Category 1)	2 (Category 2)	3 (Category 3)
(Parameter)		1 30 () (Materials that are not in Category 1, with intended or foreseeable long	

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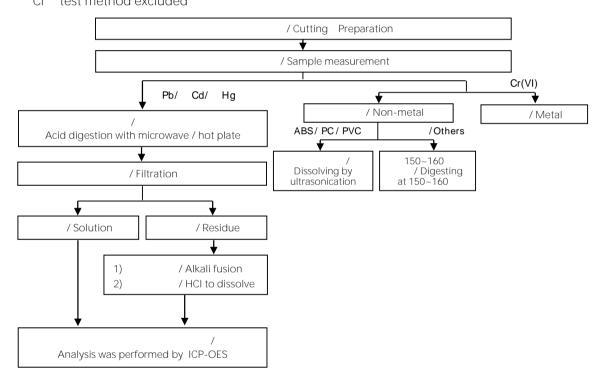
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/ Analytical flow chart of heavy metal

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



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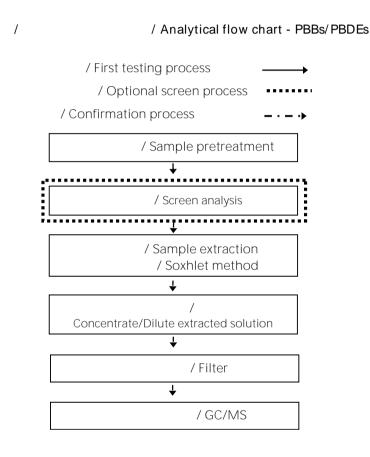
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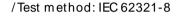
(Date): 15-Jun-2023

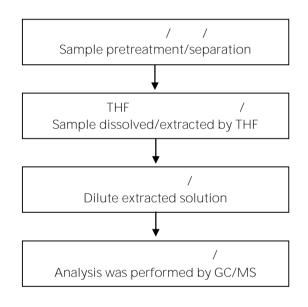
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/ Analytical flow chart - Phthalate





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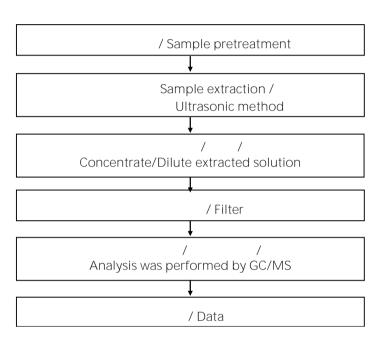
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/ Analytical flow chart - HBCDD

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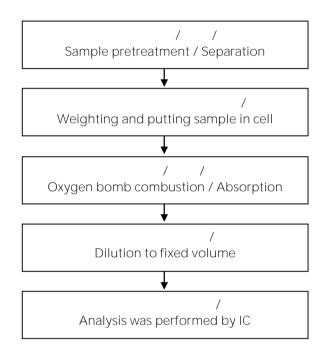
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/ Analytical flow chart - Halogen

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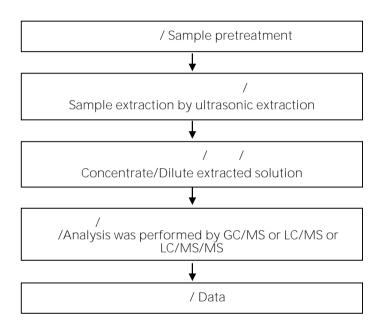


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(/ /) / Analytical flow chart PFAS (including PFOA/PFOS/its related compound, etc.)



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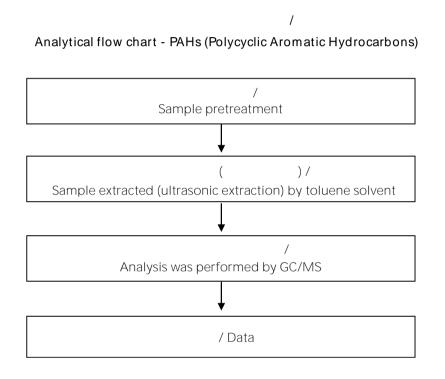
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