

(No.): ETR23605626

(Date): 12-Jul-2023

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(EVERLIGHT ELECTRONICS CO., LTD.)

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

(The following sample(s) was/were submitted and identified by the applicant

as)

us)			
BASIC INFORMATION			
Type of Product	SMD B TYPE		
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-SMD B TYPE SERIES		
	Sampling Product: PD15-22C/TR8-SGS-12-Jul-2023		
PRODUCT INFORMATION			
Product/component Sample description	TOUCH PANEL		
Quantity (numbers or weight)	0.0142 g		
EVERLIGHT P/N	SMD B TYPE SERIES		
	Sampling Product : PD15-22C/TR8		
Product Lot No	TYL23032908503		
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.)

(Testing Period) : 30-Jun-2023 to 12-Jul-2023

(Test Results) : (Please refer to following pages).







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: (1)

(2) PAHs (As specified by client, to test PAHs and other item(s).)

: (1)

(2) (A fPS) GS
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 :

		MDL		
(Method)	(Unit)			(Limit)
			No.1	
IEC 62321-5: 2013	mg/kg	2	n.d.	100
(With reference to IEC 62321-2013, analysis was performed by ICP-OES.)	5: mg/kg	2	n.d.	1000



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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(Hg) (Mercury (Hg)) IEC 62321-4: 2013+ AMD1: 2017 (With refer to IEC 62321-4: 2013+ AMD1: 2017, ar 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)	JEC / 2221 / 2015 /	mg/kg	5	n.d.	-
(Sum of PBBs)	IEC 62321-6: 2015 / (With reference to IEC 62321-6:	mg/kg	ı	n.d.	1000
(Monobromodiphenyl ether)	2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
(Dibromodiphenyl ether)	2019, analysis was performed by GG/1013.)	mg/kg	5	n.d.	-
(Tribromodiphenyl ether)	1	mg/kg	5	n.d.	-
(Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
(Pentabromodiphenyl ether)	<u>]</u>	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.	-
(Sum of PBDEs)		mg/kg	-	n.d.	1000



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(Test Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)	
(2-	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	
(2-) (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	
	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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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
(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.	-
(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.	-
(F) (Fluorine (F)) (CAS No.: 14762-94-8)		mg/kg	50	429	-
(CI) (Chlorine (CI)) (CAS No.: 22537-15- 1)	BS EN 14582: 2016 (With reference to BS EN 14582: 2016,	mg/kg	50	159	-
(Br) (Bromine (Br)) (CAS No.: 10097-32- 2)	analysis was performed by IC.)	mg/kg	50	n.d.	-
(I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
(PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
(Be) (Beryllium (Be)) (CAS No.: 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.	-



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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(D. I II. A II.				No.1	
(Polycyclic Aromatic Hydrocarbons) (PAHs)					
(a) (Benzo[a]pyrene) (CAS No.: 50-32-8)		mg/kg	0.2	n.d.	
(e) (Benzo[e]pyrene) (CAS No.: 192-97- 2)		mg/kg	0.2	n.d.	
(Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.	
(b) (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	
(j) (Benzo[j]fluoranthene) (CASNo.: 205-82-3)		mg/kg	0.2	n.d.	
(k) (Benzo[k]fluoranthene) (CAS No.: 207-08-9)	A fPS GS 2019:01 PAK /	mg/kg	0.2	n.d.	
(Chrysene) (CAS No.: 218-01-9)	(With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	
(Dibenzo[a,h]anthracene) (CASNo.: 53-70-3)		mg/kg	0.2	n.d.	
(Benzo[g,h,i]perylene) (CAS No.: 191- 24-2)		mg/kg	0.2	n.d.	
(Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.	
(Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	
(Fluoranthene) (CAS No.: 206-44-0)		mg/kg	0.2	n.d.	
(Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	
(Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	
(Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.	
15 (Sum of 15 PAHs)		mg/kg	-	n.d.	



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(Note)
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 (
                                  (PFOS and its salts including):
  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.
                     ILA C-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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Remark

(AfPS): GSPAHs

AfPS (German commission for Product Safety): GS PAHs requirements

	1 (Category 1)	2 (Category 2)		3 (Category 3)	
	,)	1	, , ,	1 2	
	(30)	30	()		30
	2009/48/EC 3		(Materials that	, ,,	erials not
		are not in Category		covered by Categor	
	intended to be placed in the mouth, or materials in toys	skin contact (> 30 s	_	intended or foresee term skin contact (
(Parameter)	(Directive 2009/48/EC) or	short-term repetitive	,	term skin contact (30 seconds))
	articles for children up to 3	the skin)	ve contact with		
	years of age with intended	a.	b.	a.	b.
	long-term skin contact (> 30	14	(Other	14	(Other
	seconds))	(Use by	consumer	(Use by	consumer
		children under 14)	products)	children under 14)	products)
Naphthalene	< 1	< 2	< 2)
Phenanthrene					
Anthracene	1 C	F C	10 0	20.0	FO C:
Fluoranthene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Pyrene			1		
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	•



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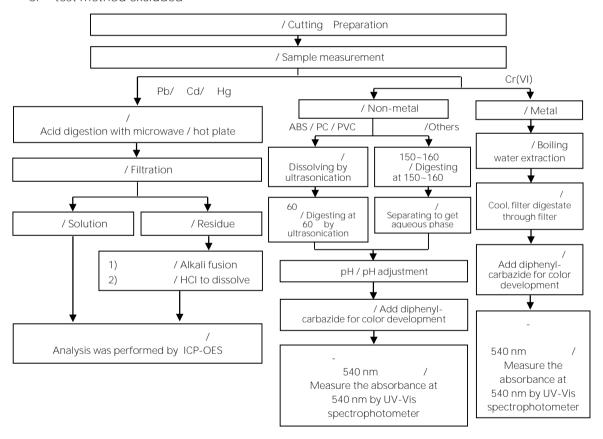
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/ Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. ${\rm Cr}^{6^+}$ test method excluded





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/ Analytical flow chart - PBBs/PBDEs

/ First testing process / Optional screen process / Confirmation process

/ Sample extraction



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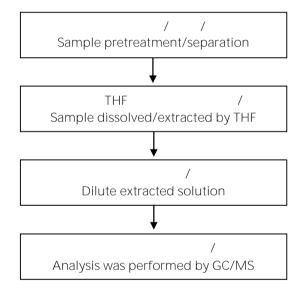
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





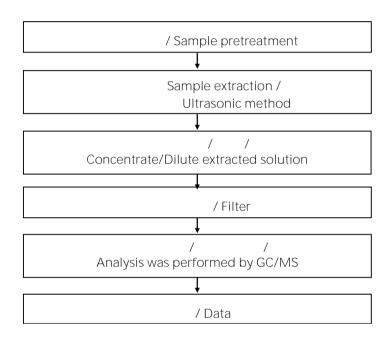
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/ Analytical flow chart - HBCDD





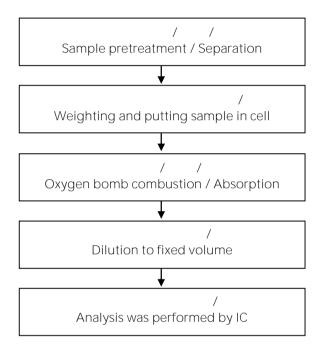
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/ Analytical flow chart - Halogen





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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)

/
Sample pretreatment

() /
Sample extracted (ultrasonic extraction) by toluene solvent

/
Analysis was performed by GC/MS

/ Data



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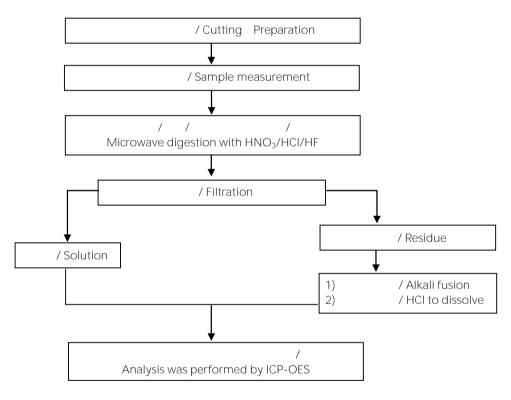
(EVERLIGHT ELECTRONICS CO., LTD.)

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() / Analytical flow chart of elements (Heavy metal included)

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

/Reference method US EPA 3051A US EPA 3052



* US EPA 3051A

/ US EPA 3051A method does not add HF.



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(The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR23605626



(End of Report) **