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Report No. SCL0

SCL01I02216301

ApplicantDONG GUAN BRIGHT LED ELECTRONICS LTDAddressNO.8,GAO LONG EAST RD ,GAOBU TOWN,DONG GUAN CTY,GUANG DONG<br/>PROVINCE,CHINA 523283

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

No.		Sample Name(s)	$\Lambda$
(1)	$(\mathcal{O})$	Lamp、End Look series 支架	
(2)	)	Lamp、End Look series 樹脂	$7 \sim$

Sample Received Date Mar. 29, 2016 **Testing Period** Mar. 29, 2016 to Apr. 7, 20 **Test Requested** 1.As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chronoium(Cr(VI), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PRDEx), Hexabromocyclododecane (HBCDD), Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I), Dimethyl fumarate DMF), Tetrabromobisphenol-A(TBBP-A), Perfluorooctane Sulfonates (PFOS), Phthalates, Polycyclic Aromatic Hydrocarbons (PAHs) in the submitted sample(s). 2. As specified by client, to screen the Red phosphorus, Diantimony trioxide(Sb<sub>2</sub>O<sub>3</sub>) in the submitted sample(s). Please refer to the following page(s). **Test Method** Rease refer to the following page(s). Test Result(s) Emna Xiao Reviewed by Tested Date Apr. 7, 2016 Danny Liu **Fechnical Manager** No. R169561790 Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China



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Tested Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013 Ed.1.0	IOP-OES
Cadmium(Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Mercury(Hg)	IEC 62321-4:2013 Ed.1.0	ISP-OES
Havevalent Chromium (Cr(M))	IEC 62321:2008 Ed.1 Annex C	– UV-Vis
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015	
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Fluorine (F)	Refer to BS EN 14582:2007	ІС
Chlorine (Cl)	Refer to BS EN 14582:2007	IC
Bromine (Br)	Refer to BS EN 14582:2007	IC
Iodine (I)	Refer to BS EN 14582:2007	IC
Hexabromocyclododecane (HBCDD)	Refer to US ERA 3540C:1996 & US EPA 8270D:2007	GC-MS
Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2014:01 PAK	GC-MS
Dimethyl Fumarate(DMF)	Refer to US EPA 3550C:2007 & US EPA 8270D:2007	GC-MS
Tetrabromobisphenol-A (TBBK-A)	Refer to US EPA 3540C:1996 & US EPA 8270D:2007	GC-MS
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
Phthalites	Refer to EN 14372:2004(E)	GC-MS
Red phosphorus *	Refer to US EPA 3052:1996 & US EPA 6010C:2007	ICP-OES
Diantimony trioxide (Sb <sub>2</sub> O <sub>3</sub> )*	Refer to US EPA 3052:1996 & US EPA 6010C:2007	ICP-OES

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Tested Herry(a)	Re	sult 🧹	
Tested Item(s)	(1)	(2)	MDL
Lead(Pb)	N.D.	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	N.D.	2 mg/kg
Mercury(Hg)	N.D.	N.D.	2 mg/kg
Harrow last Charming (Cr(MD))	°)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D. (Negative)	· · · ·	$0.02\mu$ g/cm <sup>2</sup>

Tested Item(s)	Result	MDL
resteu item(s)	(2)	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	ND.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobipheny	N.D.	5 mg/kg
Polybrominated Diphenyl Ethers(	PBDEs)	25
Monobromodiphenylether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphen A ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Vonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphonyl ether	N.D.	5 mg/kg







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Tested Item(s)	(2)	MDL
Halogen(s)		
Fluorine (F)	N.D.	10 mg/kg
Chlorine (Cl)	696 mg/kg	10 mg/kg
Bromine (Br)	N.D.	10 mg/kg
Iodine (I)	N.D.	10 mg/kg

	Result	MDI
Tested Item(s)	(2)	MDL
Hexabromocyclododecane (HBCDD)	N.D.	5 mg/kg
Dimethyl Fumarate(DMF)	N.D.	0.1 mg/kg
Tetrabromobisphenol-A (TBBP-A)	N.D.	5 mg/kg
Perfluorooctane Sulfonates(PFOS)	N.D.	5 mg/kg





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Limits for PAHs content (mg/kg)for material of (grip) surfaces, whichare to be categorized on account of the results of the risk analysis.

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	Category 1	Catego	ory 2	Categor	ry/3
$(\mathbf{c})$	(C)	Materials not	coveredby	$\sim$ /	
	Materials intended	category 1, with	hforeseeable	Materials not a	overedby
	tobe put in the	skincontact	for longer	category 1 o	or 2with
	mouthor materials	than30 se	conds	foresceable sk	incontact
Parameters	of toyswith	(long-termskin	contact) or	up to 30secon	ds (short
	foreseeable	repeated short	t-term skin	termskin co	ontact)
	long-term skin	conta	ct <sup>#</sup>	>	
	contact(longer than	Toys covered	Other	Toys covered	Other
	30 seconds)	by Directive	products	by Directive	products
6.)		2009/48/EC	products	2009/48/EC	products
Benzo[a]pyrene	<0.2	<0.2	< 0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	< 0.5	< 0.5	<1
Benzo[a]anthracene	<02	<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	<02	< 0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenz[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
Indenol[1,2,3-cd]pyrene	\$0.2	<0.2	< 0.5	< 0.5	<1
Acenaphthylene,	$\langle \rangle$				
Acenaphthene, Fluorene,			6		
Phenanthrene,	<1 Sum	<5 Sum	<10 Sum	<20 Sum	<50 Sum
Anthracene,					
Fluoranthene, Pyrene					
Naphthalene	<1	<2	19	<10	1
Sum 18 PAHs	<1	<5	<10	<20	<50

Formulation "of repeated short-term skin contact" REACH Annex XVII No. 50 supplement (REGUATION (EU) No.1272/2013)





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Tested Item(s)	Result (2)	XIDL /
Polycyclic Aromatic Hydrocarbons(PAHs)	(2)	
Naphthalene	N.D.	0.2 mg/kg
Acenaphthylene	N.D.	0.2 mg/kg
Acenaphthene	N.D.	0.2 mg/kg
Fluorene	N.D.	0.2 mg/kg
Phenanthrene	N.D.	0.2 mg/kg
Anthracene	N.D.	0.2 mg/kg
Fluoranthene	N.D.	0.2 mg/kg
Pyrene	N.D.	0.2 mg/kg
Benzo[a]anthracene	N.D.	0.2 mg/kg
Chrysene	N.D.	0.2 mg/kg
Benzo[b]fluoranthene	N.D.	0.2 mg/kg
Benzo[k]fluoranthene	N.D.	0.2 mg/kg
Benzo[a]pyrene	N.D.	0.2 mg/kg
Indeno[1,2,3-cd]pyrene	N.D.	0.2 mg/kg
Dibenzo[a,h]anthracene	N.D.	0.2 mg/kg
Benzo[g,h,i]perylene	N.D.	0.2 mg/kg
Benzo[j]fluoranthene	N.D.	0.2 mg/kg
Benzo[e]pyrene	N.D.	0.2 mg/kg
Sum (Acenaphthylene, Acenaphthene,		
Fluorene, Phenanthrene, Anthracene,	N.D.	
Fluoranthene, Pyrene)	(S)	
Sum 18 PAHs	N.D.	/



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Tested Item(s)	(2)	MDL
Phthalates		$\sim$
Dimethyl phthalate(DMP) CAS#:131-11-3	N.D.	50 mg/kg
Diethyl phthalate(DEP) CAS#:84-66-2	N.D.	∕50 mg/kg
Dipropyl phthalate(DPRP) CAS#:131-16-8	N.D	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D	50 mg/kg
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Dipentyl phthalate(DPP) CAS#:131-18-0	N.D.	50 mg/kg
Diheptyl phthalate(DHP) CAS#:3648-21-3	N.D.	50 mg/kg
Butylbenzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Dicyclohexyl phthalate(DCHP) CAS#:84-61-7	N.D.	50 mg/kg
Di-2-ethylhexyl phthalate(DEHP) CAS#: 17,81-7	N.D.	50 mg/kg
Diisooctyl phthalate(DIOP) CAS#:27554-26-3	N.D.	50 mg/kg
Di-n-octyl phthalate(DNOP) CAS#:117-84-0	N.D.	50 mg/kg
Diisononyl phthalate(DINP) CAS#:28553-12-0, 68515-48-0	N.D.	50 mg/kg
Diisodecyl phthalate(DIDP) CAS#:26761,40,0,68515-49,1	N.D.	50 mg/kg
Dinonyl phthalate(DNP) CAS#:84-76-4	N.D.	50 mg/kg
Diisononyl adipate(DINA) CAS#:33703-08-1	N.D.	50 mg/kg
Di-n-hexyl phthalate (DNHP) AS#84-75-3	N.D.	50 mg/kg
Dimethoxyethyl phthalate (DMEP) CAS#117-82-8	N.D.	50 mg/kg





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Test Result(s)

Result	
(2)	MDL
427 mg/kg	20 mg/kg
N.D.	5 mg/kg
	( <b>2</b> ) 427 mg/kg

- (1) Metal with silver-white plating, metal with silver-white/light golden plating and metal with silver-white/golden plating<sup>#</sup>
- (2) Transparent resin



Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL)

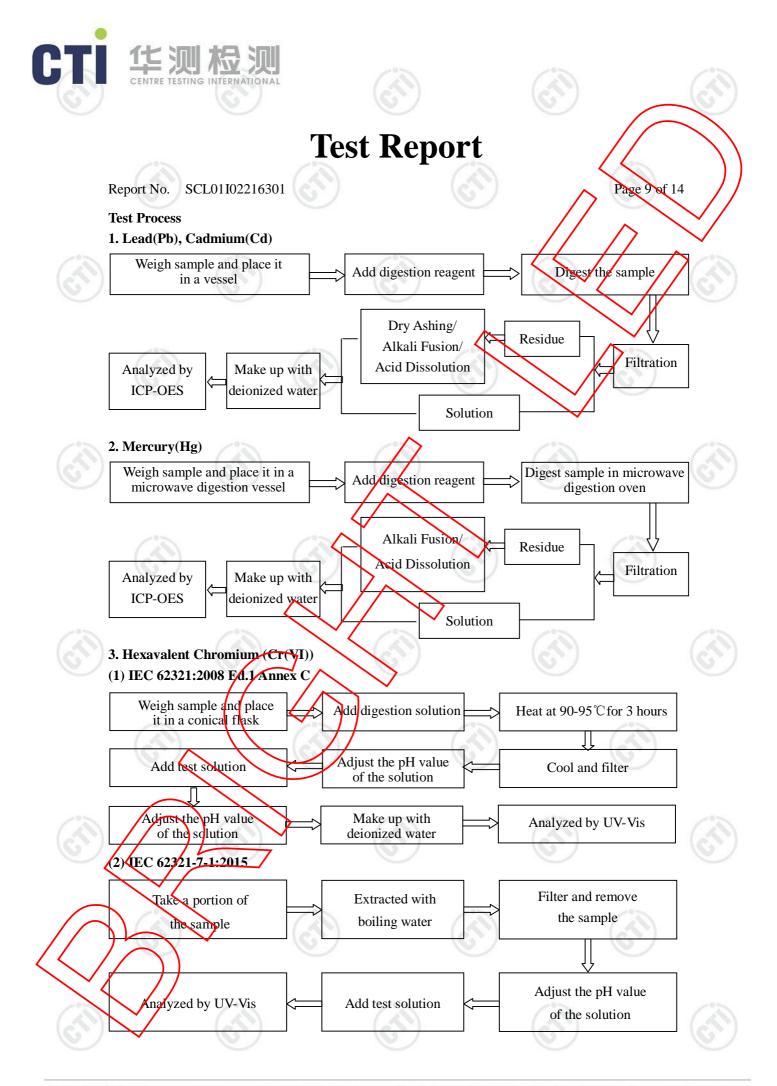
-mg/kg = ppm = parts per million -Negative = Absence of Cr (VI). The Cr (VI) concentration detected in the boiling water

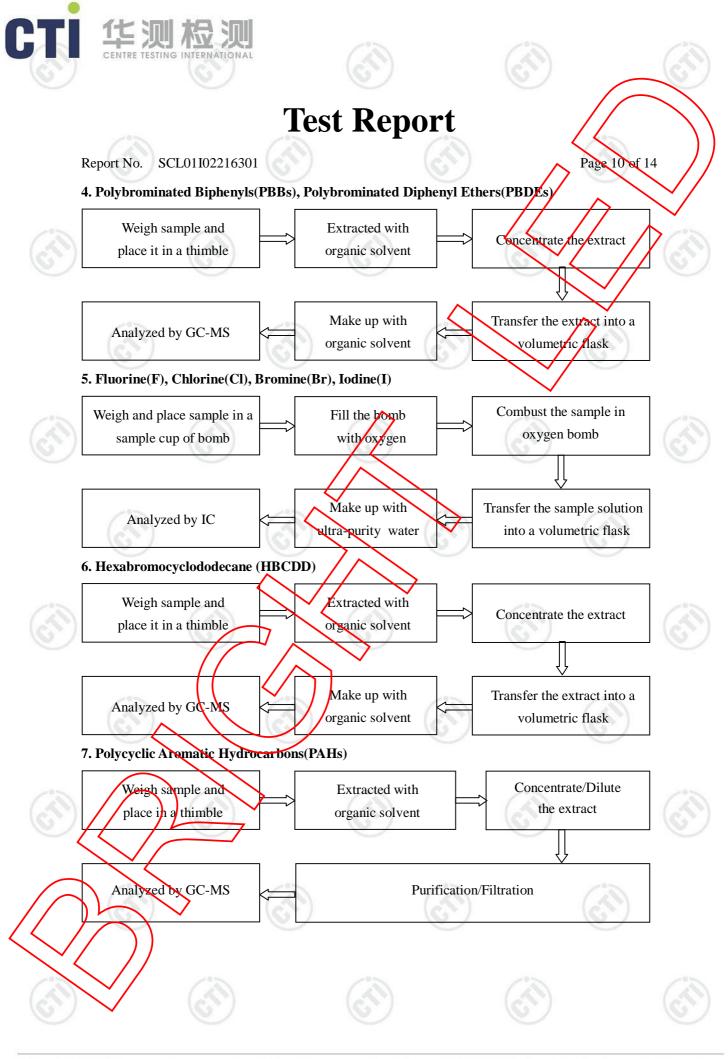
- extraction solution is less than 0.10µg/cm<sup>2</sup>
- -\*Calculated result of Red phosphorus is based on the result of Phosphorus(P).

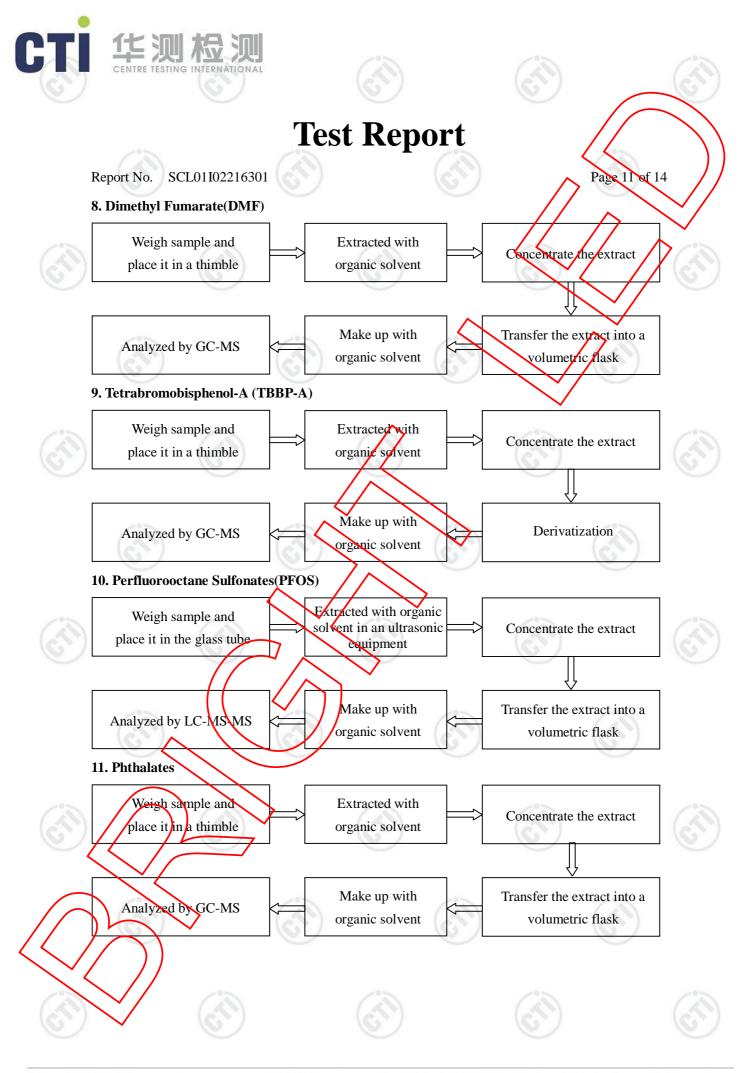
Calculated result of Diantimony trioxide is based on the result of Antimony (Sb). The MDL is evaluated for element(Phosphorus(P), Antimony(Sb)).

-<sup>#</sup> As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any









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