

No. CANEC1501999701

Date: 09 Feb 2015

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BRIGHTEK OPTOELECTRONIC CO., LTD.

7TH BUILDING 5TH LANE, XINQIAO 2ND INDUSTRIAL ESTATE, SHAJING, BAO AN DISTRICT, SHENZHEN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : LAMP LED

SGS Job No. :	CP15-006215 - GZ
Date of Sample Received :	03 Feb 2015
Testing Period :	03 Feb 2015 - 09 Feb 2015
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

<sup>Y</sup>an

Yan Lee Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-019997.001	Transparent plastic(finished product)

#### Remarks :

(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected ( < MDL )</li>
(4) "-" = Not Regulated

#### <u>Halogen</u>

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	433
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

#### Polynuclear Aromatic Hydrocarbons (PAHs)

Test Method : With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND



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<u>Test Item(s)</u> Anthracene(ANT)	<u>CAS NO.</u> 120-12-7	<u>Unit</u> mg/kg	<u>MDL</u> 0.1	<u>001</u> ND	
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND	
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND	
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND	
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND	
Benzo(b)fluoranthene(BbF) +	205-99-2/205-82-3	mg/kg	0.1	ND	
Benzo(j)fluoranthene(BjF) Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND	
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND	
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND	
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND	
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND	
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND	
Sum of 18 PAHs		mg/kg	-	ND	



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Note 1: ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3	
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged < 36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact)	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).	
Benzo[a]pyrene (mg/kg)	Not detectable (<0.2)***	1	20	
Sum of 18 PAH (mg/kg)**	Not detectable (<0.2)***	10	200	

\*\* = Only PAH substances >0.1 mg/kg are taken into account while calculating the sum of PAHs \*\*\* = In case that the maximum values exceed the limits of category 1, but are within the limits of categor 2, one may confirm the suitability of the tested material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.3 The conclusion of the migration test results must be made based on food law criteria.

#### Tetrabromobisphenol A (TBBP-A)

Test Method : With reference to US EPA Method 3540C:1996, analysis was performed by GC-MS&HPLC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

#### PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method : With reference to US EPA Method 3550C: 2007, analysis was performed by HPLC-MS.

CAS NO.	<u>Unit</u>	MDL	<u>001</u>
1763-23-1	mg/kg	10	ND
335-67-1	mg/kg	10	ND
	1763-23-1	1763-23-1 mg/kg	1763-23-1 mg/kg 10

Notes :

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:

- (1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.
- (2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished



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products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than  $1\mu$ g /m2 of the coated material.

#### Phthalate

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND



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<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND	
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND	
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND	
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND	
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND	
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND	

#### Notes :

(1)DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.

ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

(2)DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the

plasticised material, in toys and childcare articles which can be placed in the mouth by children. ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by

weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information



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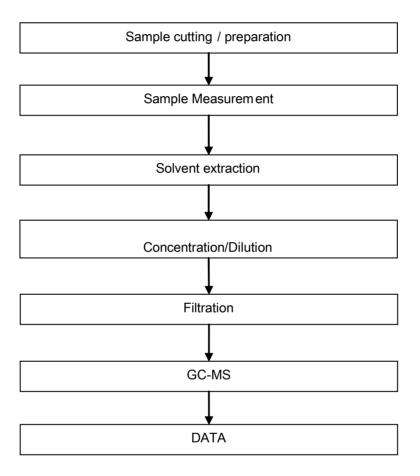
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### **ATTACHMENTS**

#### Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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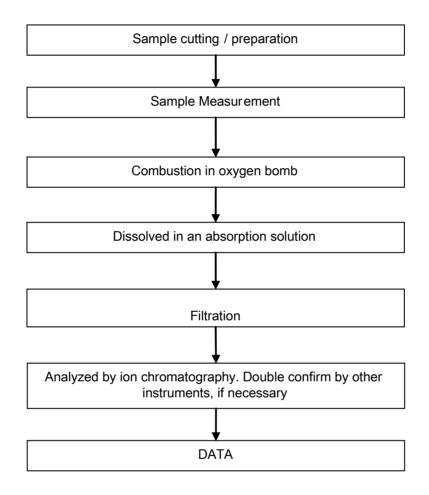
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### **ATTACHMENTS**

### Halogen Testing Flow Chart

1) Name of the person who made testing: Hanming Xiao

2) Name of the person in charge of testing: Bella Wang





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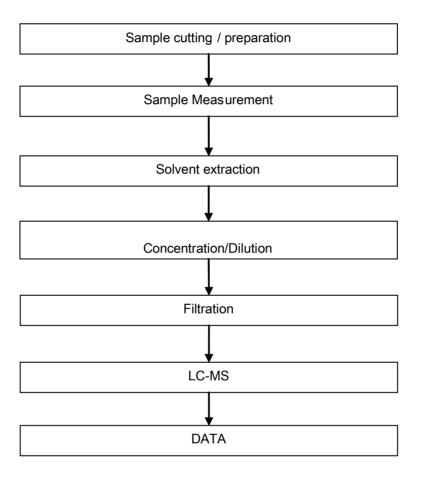
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### **ATTACHMENTS**

### **PFOA / PFOS Testing Flow Chart**

1) Name of the person who made testing: Zhihong Wang

2) Name of the person in charge of testing: Cutey Yu





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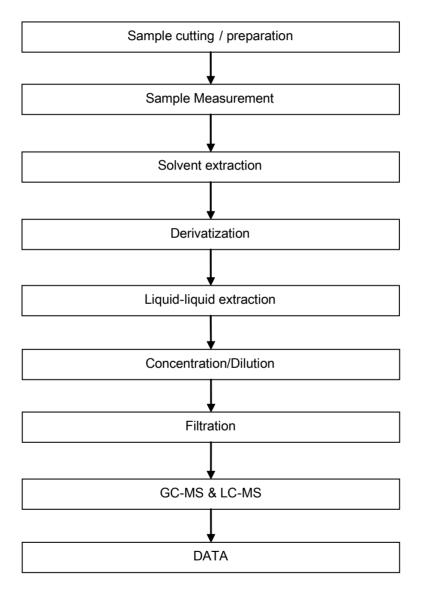
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### **ATTACHMENTS**

### **TBBP-A Testing Flow Chart**

- 1) Name of the person who made testing: Erin Guo
- 2) Name of the person in charge of testing: Cutey Yu





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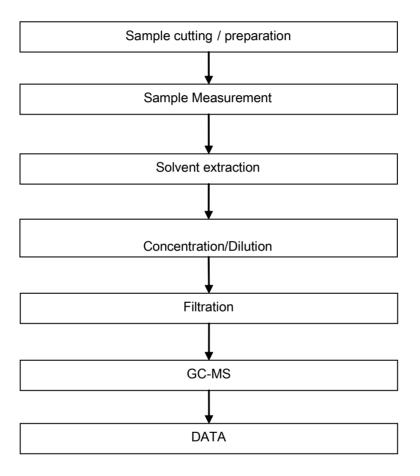
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### **ATTACHMENTS**

### PAHs Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





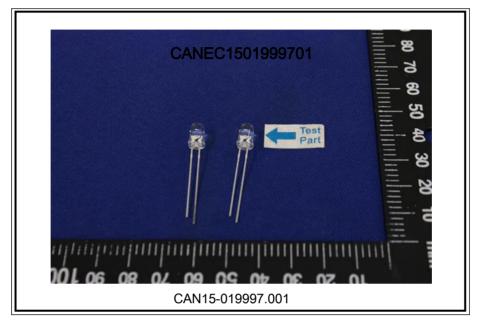
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