

# Survey Report

LIGHT COUNTRY CO., LTD.  
10F-1, NO. 102, SEC. 3, CHUNG SHAN RD., CHUNG HO CITY,  
TAIPEI HSIEN, TAIWAN, R. O. C.

No : CS/2006/B0225A  
Date : 2006/12/06  
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The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : ROCKER SWITCHES  
Style/Item No : SS21 SERIES, SS24 SERIES  
Testing Period : 2006/10/05 TO 2006/11/15

=====  
Test Result(s) : Please refer to next page(s).

\*This report is combined with 6 copies of test reports which hereby certified by SGS through the verification of each above certification provided by client.\*

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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## Test Result(s)

PART NAME NO.1 : BLACK PLASTIC (CE/2006/B1830)  
PART NAME NO.2 : SILVER-WHITE COLORED METAL (CE/2006/B1827 NO.1)  
PART NAME NO.3 : PLATING LAYER OF SILVER-WHITE COLORED METAL (CE/2006/B1827 NO.2)  
PART NAME NO.4 : SILVER COLORED METAL (CE/2006/A1393)  
PART NAME NO.5 : IRON-GRAY METAL SPRING & BALL (CE/2006/B1826 NO.1)  
PART NAME NO.6 : PLATING LAYER OF IRON-GRAY METAL SPRING & BALL (CE/2006/B1826 NO.2)  
PART NAME NO.7 : SILVER-WHITE COLORED METAL (CE/2006/B1825 NO.1)  
PART NAME NO.8 : PLATING LAYER OF SILVER-WHITE COLORED METAL (CE/2006/B1825 NO.2)  
PART NAME NO.9 : SILVER COLORED METAL (CE/2006/B1828 NO.1)  
PART NAME NO.10 : PLATING LAYER OF SILVER COLORED METAL (CE/2006/B1828 NO.2)

Test Item(s):	Unit	Method	MDL	Result					
				NO.1	NO.2	NO.3	NO.4	NO.5	
Monobromobiphenyl	ppm	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	N.D.	---	---	---	---	
Dibromobiphenyl	ppm		5	N.D.	---	---	---	---	
Tribromobiphenyl	ppm		5	N.D.	---	---	---	---	
Tetrabromobiphenyl	ppm		5	N.D.	---	---	---	---	
Pentabromobiphenyl	ppm		5	N.D.	---	---	---	---	
Hexabromobiphenyl	ppm		5	N.D.	---	---	---	---	
Heptabromobiphenyl	ppm		5	N.D.	---	---	---	---	
Octabromobiphenyl	ppm		5	N.D.	---	---	---	---	
Nonabromobiphenyl	ppm		5	N.D.	---	---	---	---	
Decabromobiphenyl	ppm		5	N.D.	---	---	---	---	
<b>Total PBBs</b>	ppm		-	N.D.	---	---	---	---	
Monobromobiphenyl ether	ppm		With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	N.D.	---	---	---	---
Dibromobiphenyl ether	ppm			5	N.D.	---	---	---	---
Tribromobiphenyl ether	ppm	5		N.D.	---	---	---	---	
Tetrabromobiphenyl ether	ppm	5		N.D.	---	---	---	---	
Pentabromobiphenyl ether	ppm	5		N.D.	---	---	---	---	
Hexabromobiphenyl ether	ppm	5		N.D.	---	---	---	---	
Heptabromobiphenyl ether	ppm	5		N.D.	---	---	---	---	
Octabromobiphenyl ether	ppm	5		N.D.	---	---	---	---	
Nonabromobiphenyl ether	ppm	5		N.D.	---	---	---	---	
Decabromobiphenyl ether	ppm	5		N.D.	---	---	---	---	
<b>Total PBBEs(PBDEs)</b>	ppm	-		N.D.	---	---	---	---	
<b>Total of Mono to Nona(Note 4)</b>	ppm	-		N.D.	---	---	---	---	

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Test Item(s):	Unit	Method	MDL	Result				
				NO.1	NO.2	NO.3	NO.4	NO.5
Hexavalent Chromium (CrVI)	ppm	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.	2	N.D.	---	---	N.D.	---
Hexavalent Chromium (CrVI)	**	With reference to IEC 62321, Ed.1 111/54/CDV. Analysis was performed by UV-VIS	0.02mg/kg with 50 cm <sup>2</sup> surface area	---	---	Negative	---	---
Cadmium (Cd)	ppm	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	---	9.9	N.D.
Mercury (Hg)	ppm	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	---	N.D.	N.D.
Lead (Pb)	ppm	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	10.1	7.9	---	6.0	7.8

Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Hexavalent Chromium (CrVI)	**	With reference to IEC 62321, Ed.1 111/54/CDV. Analysis was performed by UV-VIS	0.02mg/kg with 50 cm <sup>2</sup> surface area	Negative	---	Negative	---	Negative
Cadmium (Cd)	ppm	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	---	N.D.	---	N.D.	---
Mercury (Hg)	ppm	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	---	N.D.	---	N.D.	---

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Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Lead (Pb)	ppm	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	---	31.2	---	21.1	---

Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

5. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

6. "---" = Not Conducted

7. " - " = Not Regulated

\*\* End of Report \*\*