

**Test Report**

No. 2045481/EC

Date : Jan 19 2006

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MULTICOMP PRODUCTS MANUFACTURED BY
SWANN INDUSTRIES PTE LTD
Blk 4008, Ang Mo Kio Avenue 10,
#03-06 /10, Techplace 1.
Singapore 569625

Report on the submitted sample said to be Non-Illuminated DPST & DPDT type Rocker switches.

SGS Job No. : 1931705
Part Description : 33A Series
Buyer : PREMIER FARNELL ASIA PTE. LTD.
Supplier : SWANN INDUSTRIES PTE LTD
Sample Receiving Date : DEC 02 2005
Testing Period : DEC 03 - 08 2005

Test Requested : With reference to RoHS Directive 2002/95/EC

- 1) To determine the Cadmium Content in the submitted sample.
- 2) To determine the Lead Content in the submitted sample.
- 3) To determine the Mercury Content in the submitted sample.
- 4) To determine the Cadmium, Lead and Mercury content in the submitted metal sample.
- 5) To determine the Hexavalent Chromium Content on the submitted sample.
- 6) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).

2) With reference to EPA Method 3050B/ 3051/ 3052.
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).

3) With reference to EPA Method 3051/ 3052.
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).

4) With reference to in-house method. The sample was digested by acid. Analysis was performed by Atomic Absorption or Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).

5) With reference to EPA Method 3060A & 7196A.
The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer).

6) With reference to EPA Method 3540C/ 3550C. Analysis was performed by GC/MS or LC/ MS.

Test Results : 1-6) Please refer to next page.

Conclusion : When tested as specified, the submitted sample complies with the requirements of Commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/EC.

Signed for and on behalf of
SGS Hong Kong Ltd


Wan Chi Wai, Leo
Technical Manager

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Test Results :

1-5)

Test Item	1	2	3	4	5	Detection Limit	Limit
Cadmium (Cd)	ND	ND	ND	ND	ND	2 ppm	100 ppm
Lead (Pb)	ND	ND	ND	ND	19ppm	2 ppm	1000 ppm
Mercury (Hg)	ND	ND	ND	ND	ND	2 ppm	1000 ppm
Hexavalent Chromium (Cr ⁶⁺)	ND	ND	ND	ND	ND	2 ppm	1000 ppm

(Results shown are of the total weight of samples)

Note : ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value

6)

Flame Retardants	1	2	3	4	5	Detection Limit	Limit
Polybrominated Biphenyls (Mono – Deca)	ND	ND	ND	ND	ND	50 ppm	1000 ppm
Monobromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Dibromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Tribromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Tetrabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Pentabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Hexabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Heptabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Octabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Nonabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Decabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Polybrominated Diphenylethers (Mono – Nona)	ND	ND	ND	ND	ND	45 ppm	1000 ppm
Monobromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Dibromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Tribromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Tetrabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Pentabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Hexabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Heptabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Octabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Nonabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Decabromodiphenyl ether*	ND	ND	ND	ND	ND	5 ppm	See remark

Note : ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value.

Remark: * Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.

Sample Description :

1. Black Plastic w/ White Printing (Switch Case)
2. Pale Yellow Plastic (Spring Holder)
3. Silvery Metal (Spring)
4. Bronze Metal w/ Silvery Plating (Terminal)
5. Silvery Metal w/ Bronze Metal (Contact Plate)

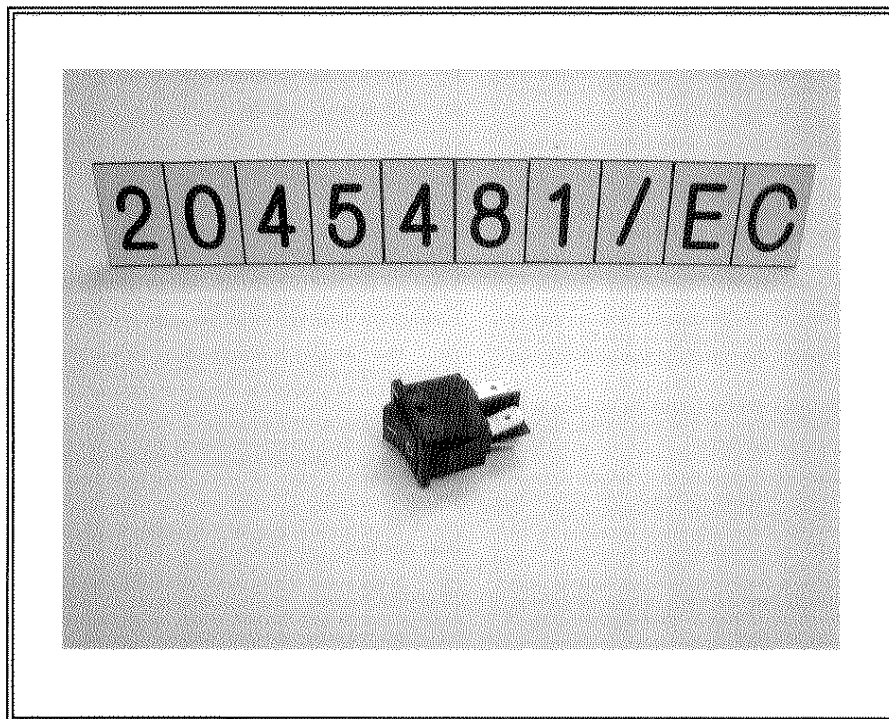
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PHOTO APPENDIX

SGS authenticate the photo on original report only

*** End of Report ***

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