

## Test Report

No. EC407187801

Date: Nov 08 2007

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KOBE PRINTING EQUIPMENT (HK) CO LTD.  
RM. 201, FLOURISH INDUSTRIAL BLDG  
33 SHEUNG YEE ROAD  
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HONG KONG

The following sample was submitted and identified on behalf of the client as :

### JAPANESE "ARAKAWA" PRODUCTS:

- A. POLYSTICK NO.500A TYPE
- B. POLYSTICK NO.500B TYPE
- C. BLISTER PACK VARNISH NO.5508
- D. BLISTER PACK VARNISH NO.38
- E. HAMMER TONE VARNISH NO.EP-60
- F. HAMMER TONE VARNISH NO.EP-65
- G. PAPER PLAYING CARD VARNISH PC-6
- H. ANCHOR COATING VARNISH NO.21
- I. BLISTER PACK VARNISH NO.505-1-A
- J. BLISTER PACK VARNISH NO.505-1-B
- K. PSA-506 (FOR STYRENE FILM)
- L. BLISTER PACK VARNISH NO.509

SGS Job No. : 1128046  
Item No : POLYSTICK NO.500A TYPE,POLYSTICK NO.500B TYPE,BLISTER  
PACK VARNISH NO.5508,  
BLISTER PACK VARNISH NO.38,HAMMER TONE VARNISH  
NO.EP-60,  
HAMMER TONE VARNISH NO.EP-65,PAPER PLAYING CARD  
VARNISH PC-6,  
ANCHOR COATING VARNISH NO.21,BLISTER PACK VARNISH  
NO.505-1-A,  
BLISTER PACK VARNISH NO.505-1-B,PSA-506 (FOR STYRENE  
FILM),  
BLISTER PACK VARNISH NO.509  
Supplier : ARAKAWA TORYO KOGYO CO. LTD.  
Manufacturer : ARAKAWA TORYO KOGYO CO. LTD.  
Country of Origin : JAPAN  
Date of Sample(s) Received : OCT 30 2007  
Testing Period : OCT 30 - NOV 07 2007  
Test Requested/ : - In accordance with RoHS Directive 2002/95/EC, and its amendment  
Test Method : directives.  
- With reference to EPA Method 3051A/ 3052 for Cadmium, Lead and  
Mercury contents. Analysis was performed by ICP.

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- With reference to EPA Method 3060A & 7196A for Hexavalent Chromium content. Analysis was performed by colorimetric method (UV-VIS).
- With reference to EPA Method 3550C/ 3540C for PBBs/ PBDEs contents. Analysis was performed by GC-MS.
- To determine the soluble heavy metals content according to the European Standard on Safety of Toys, EN 71 Part 3:1994 + A1:2000, by ICP/AAS.
- To determine the total Lead and soluble heavy metals content according to the Standard Consumer Safety Specification for Toy Safety, ASTM F963-07. Total Lead content: With reference to ASTM E1645-01 and E1613-04. Soluble Heavy Metal contents: With reference to ASTM F963-07 Clause 8.3. Analysis was performed by ICP/AAS.

Test Results : Please refer to next page.

Conclusion :

- Based on the performed tests on submitted sample, the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.
- When tested as specified, the submitted sample complies with the stated requirements of the European Standard EN 71 Part3:1994 + A1:2000. (Note : EN 71:1994 + A1:2000, BS EN71:1995 and BS5665:1995 are identical)
- When tested as specified, the submitted sample complies with the Total Lead and Soluble Heavy Metal requirements stated in Standard Consumer Safety Specification for Toy Safety, ASTM F963-07.

Signed for and on behalf of  
SGS Hong Kong Ltd.



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Ho Ka Ting Family  
Senior Laboratory Executive

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### Test Results:

Test results by chemical method (Unit : mg/kg)

	<u>1</u>	<u>MDL</u>	<u>Limit</u>
Cadmium (Cd)	n.d.	2	100
Lead (Pb)	n.d.	2	1000
Mercury (Hg)	n.d.	2	1000
Hexavalent Chromium (CrVI) by colorimetric method	n.d.	2	1000
<b>Sum of PBBs (Mono to Deca)</b>	n.d.	-	1000
Monobromobiphenyl	n.d.	5	
Dibromobiphenyl	n.d.	5	
Tribromobiphenyl	n.d.	5	
Tetrabromobiphenyl	n.d.	5	
Pentabromobiphenyl	n.d.	5	
Hexabromobiphenyl	n.d.	5	
Heptabromobiphenyl	n.d.	5	
Octabromobiphenyl	n.d.	5	
Nonabromobiphenyl	n.d.	5	
Decabromobiphenyl	n.d.	5	
<b>Sum of PBDEs (Note 4)</b>	n.d.	-	1000
<b>Sum of PBDEs (Mono to Deca)</b>	n.d.	-	
Monobromodiphenyl ether	n.d.	5	
Dibromodiphenyl ether	n.d.	5	
Tribromodiphenyl ether	n.d.	5	
Tetrabromodiphenyl ether	n.d.	5	
Pentabromodiphenyl ether	n.d.	5	
Hexabromodiphenyl ether	n.d.	5	
Heptabromodiphenyl ether	n.d.	5	
Octabromodiphenyl ether	n.d.	5	
Nonabromodiphenyl ether	n.d.	5	
Decabromodiphenyl ether	n.d.	5	

### Note :

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) n.d. = Not Detected
- (4) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- (5) - = Not Regulated
- (6) -- = Not Conducted

**ASTM F963-07 Soluble Heavy Metals Contents**

	<u>1</u>	<u>DL</u>	<u>Limit</u>
Soluble Lead (Pb)	n.d.	5	90
Soluble Antimony (Sb)	n.d.	5	60
Soluble Arsenic (As)	n.d.	5	25
Soluble Barium (Ba)	n.d.	10	1000
Soluble Cadmium (Cd)	n.d.	5	75
Soluble Chromium (Cr)	n.d.	5	60
Soluble Mercury (Hg)	n.d.	6.7	60
Soluble Selenium (Se)	n.d.	10	500

**EN71-3 Soluble Heavy Metal Contents**

	<u>1</u>	<u>DL</u>	<u>Limit</u>
Soluble Lead (Pb)	n.d.	5	90
Soluble Antimony (Sb)	n.d.	5	60
Soluble Arsenic (As)	n.d.	5	25
Soluble Barium (Ba)	n.d.	10	1000
Soluble Cadmium (Cd)	n.d.	5	75
Soluble Chromium (Cr)	n.d.	5	60
Soluble Mercury (Hg)	n.d.	6.7	60
Soluble Selenium (Se)	n.d.	10	500

**Note :**

- (1) Unit: mg/kg = ppm
- (2) DL = Detection Limit
- (3) n.d. = Not Detected

Remark: Results shown are of the adjusted analytical result.

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### ASTM F963-07 Total Lead Content

	<u>1</u>	<u>DL</u>	<u>Limit</u>
Total Lead (Pb)	n.d.	20	600

Note :

- (1) Unit: mg/kg = ppm
- (2) DL = Detection Limit
- (3) n.d. = Not Detected

Remark: Results shown are of the adjusted analytical result.

### Sample Description

1      Flesh Paste

Sample photo:

## EC407187801 (Sample 1)



SGS authenticate the photo on original report only

\*\*\* End Of Report \*\*\*